



Consistent, safe and intelligent low-voltage power distribution and electrical installation technology

Whether industries, infrastructures or buildings: Each environment depends on a reliable power supply.

Which is why products and systems featuring maximum safety and optimum efficiency are in demand. This comprehensive portfolio for low-voltage power distribution and electrical installation technology covers every requirement – from the switchboard to the socket outlet.



Your personal contact can be found at www.siemens.com/lowvoltage/contact

Catalog LV 10 · 10/2019

THE CHIEF

You will find the latest edition and all future editions in the Siemens Industry Online Support at www.siemens.com/lowvoltage/catalogs

Refer to the Industry Mall for current prices www.siemens.com/industrymall

The products and systems listed in this catalog are developed and manufactured using a certified quality management system in accordance with DIN EN ISO 9001:2008.

Technical data

The technical specifications are for general information purposes only. Always heed the operating instructions and notices on individual products during assembly, operation and maintenance.

All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

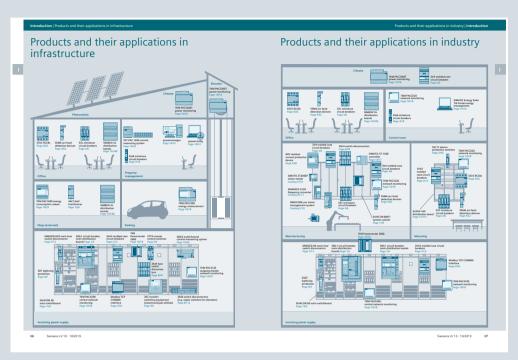
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New overviews and matrix tables for better orientation within the catalog



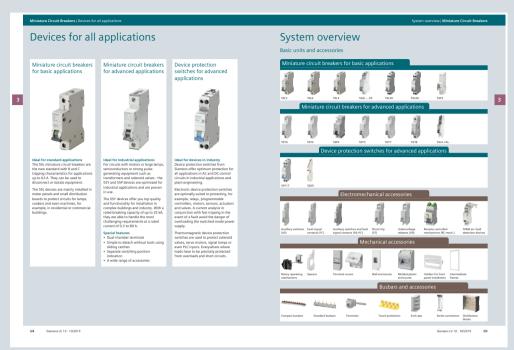
Overview of products and their applications

On pages I/6 to I/9 you can find an overview of the diverse portfolio of catalog LV 10.



Protection, switching, measuring and monitoring tasks

From page 1/12 onwards, the catalog LV 10 portfolio is dedicated to the most important protection, switching, measuring and monitoring tasks.



System overview

An overview of the basic units and accessories can be found in the system overview at the beginning of the chapter or section. The color helps you recognize the accessory at a glance.



Overview of basic units

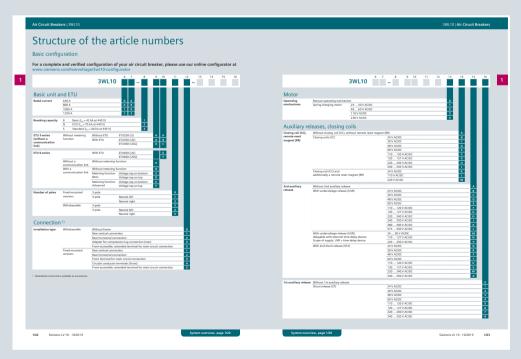
The overviews at the beginning of the chapters and sections help you make a quick advance selection of the basic units. You can use the important technical data to compare the basic units. Page references quickly take you to the suitable devices.

New overviews and matrix tables for better orientation within the catalog



Product page

The article number matrix shows you on the spot which product variants are available. The matching accessories are clearly dedicated to each basic device – often directly on the same page.



Configurable products

For products which are conveniently configurable online, the structure of the article numbers is clearly displayed. A link takes you directly to the configurator which permits complete and verified configuration.

new Search function

Search for new products by entering new in the text field of the search function:

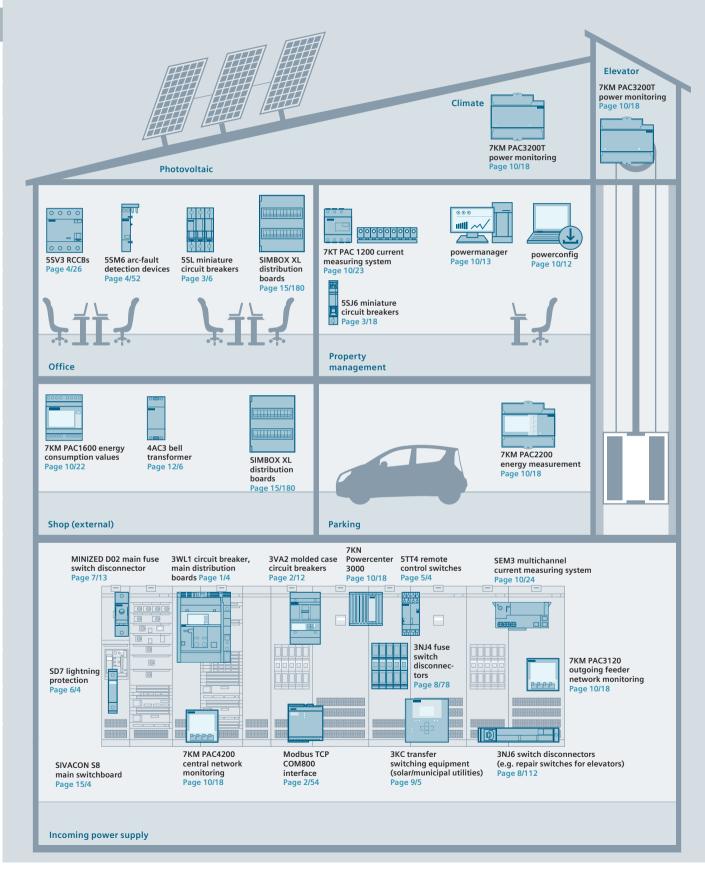


Clickable article numbers

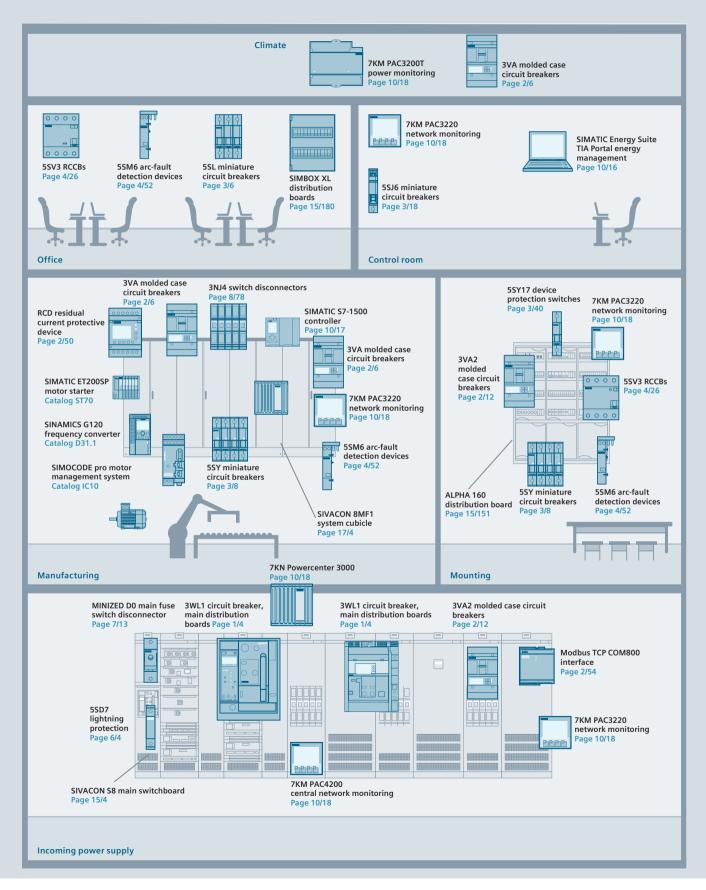
Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog



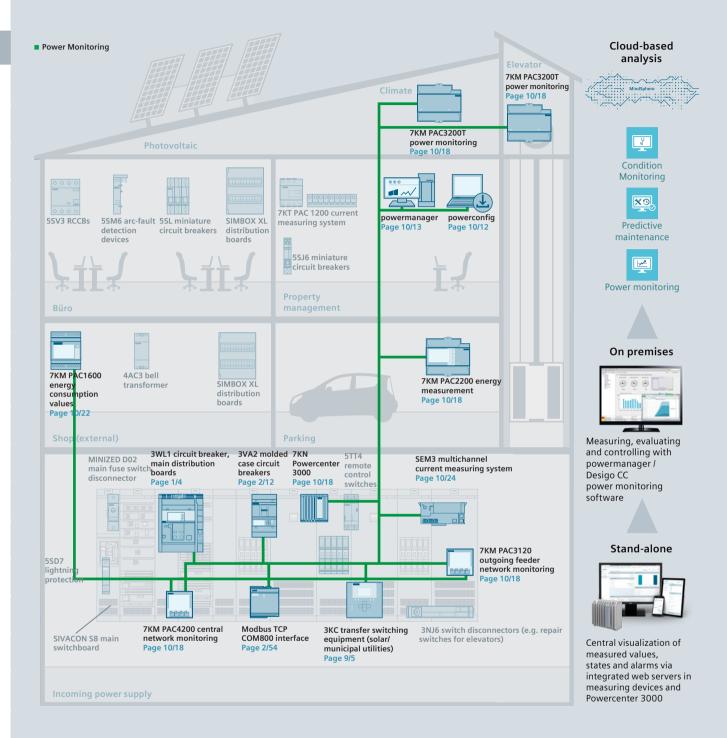
or by entering this web address incl. Article No. www.siemens.com/product?Article No.



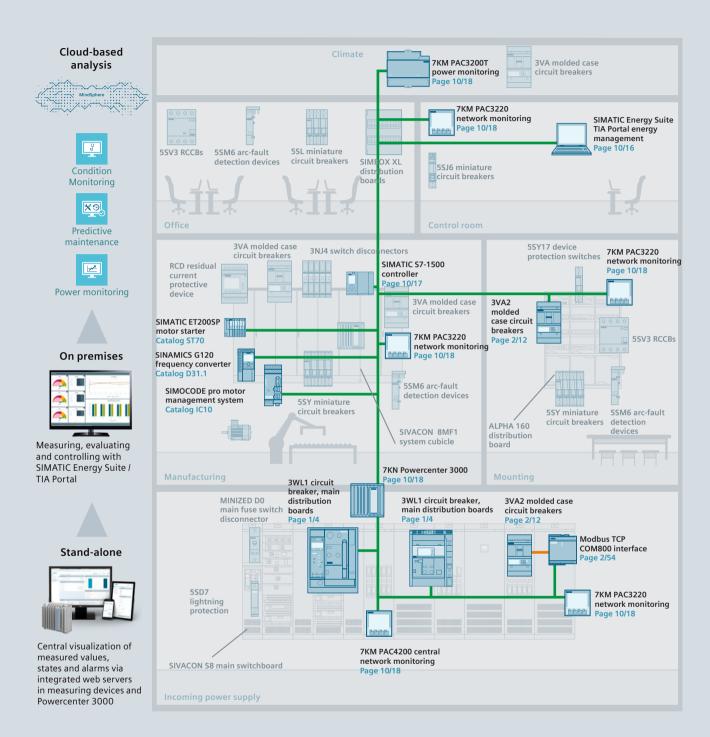
Products and their applications in industry



Examples of digitalization in infrastructure



Examples of digitalization in industry



Introduction to the topic of digitalization and Industry 4.0

In industrial automation, the demand for communication capability, data transparency and flexibility is growing constantly. To enable industrial switchgear technology to meet this demand, the use of bus systems and intelligent switching devices is unavoidable.

Digitalization

Switching, protection and measuring devices in power distribution systems can display important information on local visualization via integrated communication, e.g. in powercenter, or transmit it to energy data management systems (EDMS), e.g. powermanager, as well as to cloud systems and applications.

- · Diagnostics management
- Fault management SMS alarm
- Maintenance management predictive maintenance
- Cost center management MID

1. Visualization and plant transparency (HMI)



- Greater operational reliability thanks to remote access to the plant.
- Plant visualization for central and simple access to all device information.

2. Digital documentation



- Uniform access to digital data and documentation.
- Provision of extensive CAx data for systems and components during planning and operation.
- Support in planning and process creation using SIMARIS planning tools, product and system configurators.

3. Power monitoring



 Fulfilling the ISO 50001 by detecting and transparently presenting the energy flows within energy distribution.

4. Optimization and retrofit



- Retrofitting solutions such as SEM3 offer a simple option for integrating energy monitoring into existing systems.
- Energy monitoring and plant transparency help you efficiently plan plant expansion.

5. Maintenance management



 Maintenance support, even remotely, by transparently presenting the status of a switchgear and controlgear assembly.

6. Emergency management

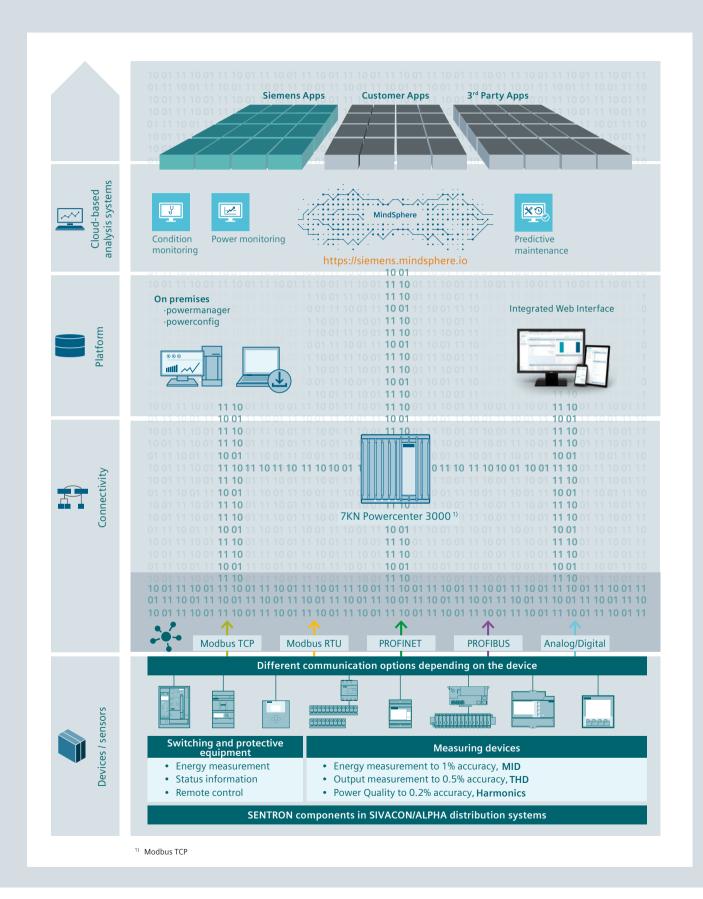


• Quick error localization which therefore leads to a minimization of outage times.

7. Cybersecurity



• Protection from unauthorized access and manipulation to switchgear and controlgear assemblies and devices ensures integrity, availability and confidentiality.



Overview of protection, switching, measuring and monitoring tasks

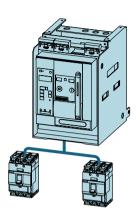
The functions presented here are available in combination or individually. Details can be found in the respective chapter.

	-			Line protection	Motor protection	Generator protection	Starter protection	Isolating function
Device class	Туре	Rated current AC	Page					_
Air circuit breakers	3WL	630 6300 A	1/4		•	•	_	•
Molded case circuit breakers Miniature circuit breakers (automatic circuit breakers)	3VA 5SY / 5SL	16 1600 A 0 80 A	2/1 3/6	•	•	•	•	:
RCCB	5SV3 / 5SM3	16 125 A	4/6	•				•
RCBOs	5SU1 / 5SV1	0 40 A	4/6	•				•
Arc fault detection devices, AFDDs	5SM6	0 40 A	4/6					
Arc fault detection devices, AFDD-MCBs	5SV6	0 40 A	4/6	•				•
ON/OFF switches	5TL1	32 125 A	5/14					
Overvoltage protection	5SD7	-	6/6					
Fuses D0	5SG / 5SA		7/6				•	
Photovoltaic fuses			7/6					
LV HRC fuses			7/6					
SITOR semiconductors			7/6			-	•	
Switch disconnectors	3LD	16 250 A	8/6					
	3KD	16 1,600 A	8/6					
Fuse switch disconnectors	3NP	0 630 A	8/74	with suitable			with suitable	
Switch disconnector with fuse	3NJ	0 630 A	8/78	fuse links			fuse links	
	3KF	0 630 A	8/96					
Transfer switching equipment	3KC	16 3,200 A	9/5					
PAC measuring devices	7KT	Any	10/22					
Motor starter protectors	3RV		Catalog IC 10					•
3RT contactor			Catalog IC 10					•

Current limitation	Overload protection "L"	Short-circuit protection, delayed "S"	Short-circuit protection, instantaneous "I"	Ground-fault protection "G"	Metering function	Personnel safety / fault current protection	Overvoltage protection	Preventative fire protection	Switching function
	:	:	:	:	:	= /=			
•	•		•			■/■			
			•			■/■			
								•	
•	•		•					•	
•	•		•						
- :									
•	•		•						
dalada-la-la-	isla avitaalala		iala arriandala						
with suitable fuse links	with suitable fuse links		with suitable fuse links						
									-
					•				
_	•		•						

Overview of protection, switching, measuring and monitoring tasks

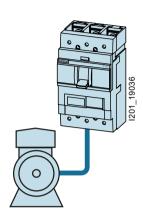
Line protection



The trip units for line protection are designed to provide overload and short-circuit protection for:

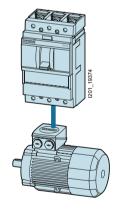
- Cables
- Leads
- · Non-motor loads

Generator protection



The setting values of the trip units are matched to protecting generators.

Motor protection

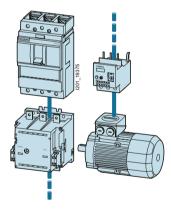


The overload and short-circuit releases are designed for optimal protection and direct starting of three-phase AC squirrel-cage motors.

The molded case circuit breakers for motor protection have phase-failure sensitivity and a thermal image that protects the motor against overheating.

The adjustable time lag class enables users to adjust the overload release to the startup conditions of the motor to be protected.

Protection for starter combinations (starter protection)



Starter combinations consist of:

Molded case circuit breaker + contactor + overload relay.

The molded case circuit breaker handles short-circuit protection and the isolating function. The task of the contactor is the operational switching of the feeder. The overload relay handles overload protection that can be specially matched to

The molded case circuit breaker for the starter combination is therefore equipped with an adjustable and instantaneous short-circuit release.

Isolating function as per IEC 60947-2/3



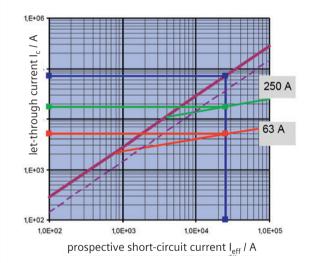
Isolating is opening the conducting path all the while creating a sufficient distance for protecting persons

Metering function



In metering functions, the current flow is detected either using current transformers or current measuring systems with Rogowski coils. The measured value is processed with an electronic switch. The result is subsequently routed to a display.

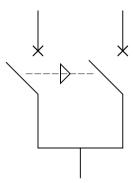
Current limitation / let-through current characteristic curves



The let-through current characteristic specifies to which values the prospective short-circuit current is limited by "current-limiting" devices. Current-limiting devices are, e.g., compact circuit breakers, MCBs or fuses.

The X axis displays the expected, uninfluenced effective value I $_{\rm eff}$ (=prospective short-circuit current I $_{\rm eff}$), calculated using SIMARIS design, e.g.. Depending on the device and the relevant current limitation, the let-through current I $_{\rm c}$ (= instantaneous value or peak value) can be read on the Y axis.

Switching function

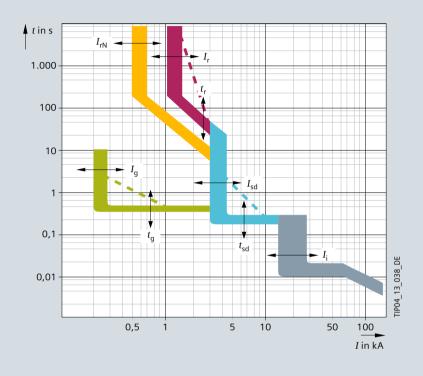


Transfer switches switch from one busbar section to a different one or from one power supply to a different one. Transfer switching equipment switches from one supply network to an alternative network in the event of network fluctuations.

Overview of protection, switching, measuring and monitoring tasks

The protection function performed by the circuit breaker in the power distribution network is defined by the choice of trip unit. The trip unit are divided in

- thermal-magnetic overload release (TMTU = thermal-magnetic trip unit; previously known as electromechanical trip units) and
- electronic trip unit (ETU = electronic trip unit).



- Overload protection "L" Standard I2t Optional I4t
- Short-circuit protection, delayed "S" Standard $t_{sd} = const.$ Optional I2t
- Short-circuit protection, instantaneous "I"
- Neutral protection "N" Option: Off - 0.5 - 1.0 - $2.0 \times I_{r}$
- **Ground-fault protection "G"** Standard $t_{\alpha} = const.$ Optional I²t

Overload protection "L"

Current-dependent delayed overload releases are offered with optional characteristic curves (I²t = current-dependent delay) depending on the trip unit type.

Short-circuit protection, delayed "S"

For time adjustment of protection function in series to achieve selective behavior amongst the protection devices. In addition to the standard characteristic curves and settings, optional functions for certain applications are offered:

- · Current-independent trip units The desired delay time (t_{sd}) is defined and set as of a set current value (Pickup I_{sd}) for this standard S function.
- · Current-dependant trip units The product I²t remains constant for this optional S function. The delay time t_{sd} is set for a specific reference point (e.g. 6 x I_n). This function is generally used to improve the selectivity behavior.

Short-circuit protection, instantaneous "I"

Depending on the circuit breaker, I releases can be used either with fixed or adjustable conventional tripping current I_i or with the function which can be activated or deactivated as required.

Neutral protection "N"

Inverse-time delayed overload release for the neutral conductor are offered at 50 and 200% of the overload release. A four-pole circuit breaker is selected or an external current sensor is included for the N conductor.

Ground-fault protection "G"

In addition to the standard function (current-independent), an optional function (I2t = current-dependent delay) is offered to protect the system against leakage current via ground.

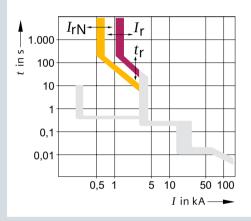
Overload protection "L"

The ID letter for overload protection is L (stands for "Long-time delay"). The trip unit is inverse-time delayed and exhibits the following characteristics depending on the trip unit type:

- Bimetal characteristic with thermal-magnetic trip units
- I²t characteristic with electronic trip units

The letters I_r refer to the current setting value, and t_r to the associated time delay.

The time delay with the device-specific reference point defines the current-dependent curve shape of the setpoint characteristic. With circuit breakers, this trip unit reference point corresponds to 6 times the current setting value I_r . The following mathematical equation determines the remaining curve of the setpoint characteristic: $I^2t = constant$

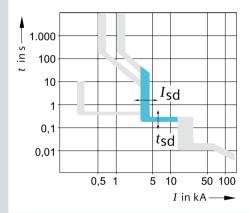


Short-circuit protection, delayed "S"

The ID letter for short-time delayed short-circuit protection is "S" (stands for "Short-time delay"). The S function of the trip unit can be used to implement time-selective short-circuit tripping in low-voltage networks in which multiple molded case circuit breakers are installed in series.

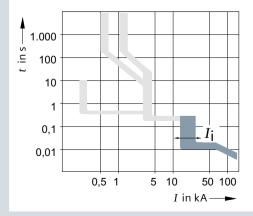
The short-time delayed short-circuit protection function protects phases L1 to L3 and the neutral conductor. The protection function responds if the current in at least one phase exceeds the set tripping current I_{sd} for the set delay period t_{sd} .

The S release has a characteristic curve with current-dependent characteristic I²t, i.e. the delay time is dependent on the energy content of the short-circuit current present.



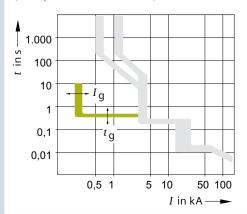
Short-circuit protection, instantaneous "I"

The ID letter for instantaneous short-circuit protection is "I" (stands for "Instantaneous"). This short-circuit protection function protects phases L1 to L3. The instantaneous short-circuit protection function responds if the instantaneous value equal to the rms of the current in at least one phase exceeds the instantaneous tripping current I_i .



Ground-fault protection "G"

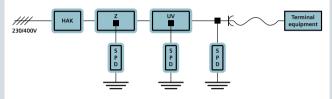
A ground-fault refers to a fault whereby an external conductor comes into contact with ground and current flows into the ground. Ground-fault protection protects against the flow of current to ground in the rated current range. As ground-fault currents can produce arcing, ground-fault protection consequently offers extended fire protection.



Overview of protection, switching, measuring and monitoring tasks

Overvoltage protection

Overvoltage protection refers to the protection of electrical and electronic devices against excessively high electrical voltages. Overvoltage can be caused by switching operations or electrostatic discharging (ESD).



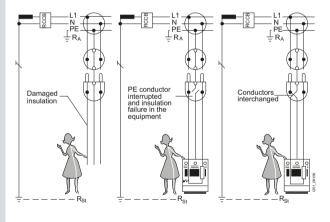
Personnel safety / fault current protection

Protection in the event of direct contact:

Additional protection contact refers to direct contact with a part that is live under operating conditions.

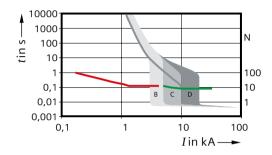
Protection in the case of indirect contact:

Fault protection refers to contact with an electrically conductive part which is not live under operating conditions.



Preventative fire protection

Arc-fault detection devices evaluate occurring faults in the current and voltage wave using an electronic switch and shutting off the current when it recognizes a contact fault. This prevents overheating at poor contact points which can prevent fires.

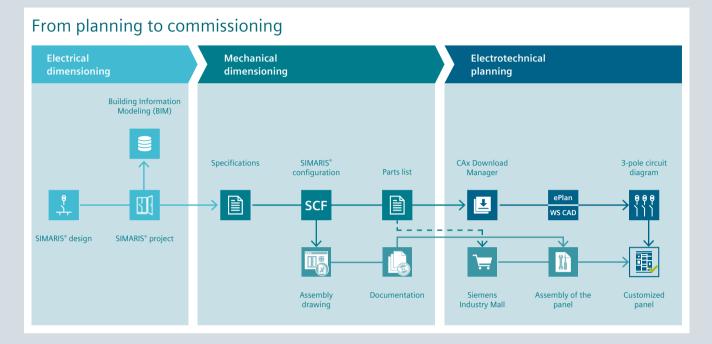


Potential failure causes

- Damaged cable insulation, e.g. by nails, screws or brackets
- The risk of a cable break exists for cables with a too-tight bending radius
- Cables which are laid through open doors and windows can be crushed when doors or windows are closed resulting in damaged insulation and arcing faults
- Environmental influences such as UV rays, temperature, humidity, gases can damage or age the insulation
- · Damage caused by rodents
- Loose contact, e.g. caused by too low torque
- · Conductor damaged by claw fixing

SIMARIS® planning tools

for planning and visualizing the power distribution system



Highlights

- Thorough support of the engineering process with interlinked software tools
- Provision of extensive CAx data for systems and components
- Reduction of cost and time aspects during planning

Distribution systems

For industrial plants or in infrastructure

SIVACON S8 power distribution boards and motor control centers

- Reliable, economical, flexible and communication-capable
- For all applications in infrastructure and process industry



See page 15/4 for the overview

SIVACON S4 power distribution boards

- Modular system for safe, end-to-end, cost-efficient power distribution up to 4000 A
- System for creating design-verified switchgear assemblies in accordance with IEC 61439
- Flexible application, thanks to a range of installation methods and variable accessories
- Simplified installation and device connection makes assembly faster



See page 15/12 for the overview

ALPHA 3200 power distribution boards

- Compact, space-saving construction
- Perfectly matched to the SENTRON components



See page 15/4 for the overview

SIVACON 8PS busbar trunking systems

- For economic and reliable power supply
- Space-saving and simple to install
- · Low fire load, good electromagnetic compatibility



See page 16/4 for the overview

ALPHA UNIVERSAL distribution boards (NF technology)

- Comprehensive portfolio with wall-mounted and floormounted distribution boards for currents between 125 A to 800 A
- Easy planning and assembly thanks to modular platform structure



See page 15/106 for the overview

ALPHA distribution boards (DIN technology)

Comprehensive portfolio with wall-mounted and floor-mounted distribution boards for currents between 160 A to 1,250 A



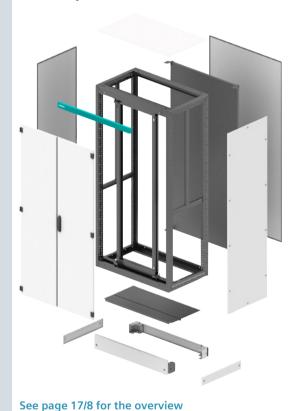
See page 15/138 for the overview

Control cabinets / System cubicles

For plant engineering, process control, network technology, secondary systems *l* energy automation

SIVACON 8MF1 system cubicles

- Modular system
- Fully assembled, adapted according to your specifications, or entirely customized



SIVACON 8MR system air-conditioning

Ensures fault-free operation of the electrical and electronic built-in units installed in the cubicle, even under the harshest ambient conditions.



See page 17/36 for the overview

SIVACON 8MF/8MR system lighting

Offers optimum lighting conditions during installation or maintenance. The LED technology conserves energy and is maintenance-free.



See page 17/34 for the overview

Reliable, versatile and perfectly integrated.

All power distribution systems rely on a secure infeed of electrical energy. The 3WL air circuit breakers reliably protect electrical equipment from damage or fire resulting from short circuit, ground fault or overload failures.

The 3WL air circuit breakers are used as incoming-feeder, tie, and outgoing-feeder circuit breakers in electrical installations in industry, buildings and infrastructure applications. They have the ability to communicate and can easily be integrated into higher-level control and energy management systems.

The 3WL air circuit breakers switch and protect motors, capacitors, generators, transformers, busbars and cables. The modular design and standardized range of accessories enable the circuit breakers to be adapted flexibly to different applications. UL 489-compliant versions are available for international use.

The 3WL air circuit breakers can optionally be equipped with a communication module and integrated into higher-level energy management systems. Auxiliary, signaling and position switches report status and fault diagnostics remotely to higher-level control systems.



Air Circuit Breakers



All the information you	need	1/2
Quick selection guide _		1/4
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A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about air circuit breakers, please visit our website

www.siemens.com/3WL



👤 Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical basic information 3WL air circuit breakers (109767789)
- 3WL air circuit breakers Quick selection guide (109751638)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Siemens YouTube channel

Our video range

• 3WL air circuit breakers (general) bit.ly/2ZH1rXH



Everything you need for your order

Refer to the Industry Mall for an overview of your products

• Air circuit breakers sie.ag/2lXiZjB

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.



Configurators

Exactly the right circuit breaker for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3WL air circuit breaker at www.siemens.com/lowvoltage/3wl10-configurator www.siemens.com/lowvoltage/3wl-configurator

For your configured 3WL air circuit breaker, you can additionally find

- 3D views
- · CAD data
- · Unit wiring diagrams
- Dimension drawings

... can be found in our online services

Commissioning + operation



Configuration software

powerconfig

The combined commissioning and service tool for communication-capable measuring devices and circuit breakers from the SENTRON family. www.siemens.com/powerconfig



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/lowvoltage/cax

Training and tutorials

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- Protection systems in low-voltage power distribution (WT-LVAPS)
- 3WL air circuit breakers (WT-LVA3WL)
- Communication with SENTRON components (LV-COM)
- Maintenance and operation of 3WL circuit breakers (LV-CBMAIN)

Video tutorial on the 3WL air circuit breaker – descriptive supplement to Operating Instructions www.lowvoltage.siemens.com/wcms/3wl-tutorial

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Low-voltage protection devices selectivity tables (109748621)
- System manual 3WL/3VL circuit breakers with communication capability - Modbus (39850157)
- System manual 3WL/3VL circuit breakers with communication capability - PROFIBUS (12560390)
- Equipment manual 3VA27 molded case circuit breakers & 3WL10 air circuit breakers (109753821)
- Communications manual 3WL air circuit breakers via COM35 - PROFINET IO, Modbus TCP (109757987)
- Communication manual 3WL10 air circuit breakers & 3VA27 molded case circuit breakers (109760220)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog



Technical overview of air circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on air circuit breakers www.siemens.com/lowvoltage/product-support (109766020)

Basic units for AC and DC

IEC 60947-2

				3WL1	10		3WL	11
Basic data				JII			JIII	
Rated voltage		V		Up to 6	90		Up to 10	000
Rated currents		Α		630 1			630 2	
Size				0			1	
Installation type			Withdrawa	ıble l	ixed-mounted	Withdrawa	able	Fixed-mounted
Number of poles			3/4-pole	9	3/4-pole	3/4-pol	е	3/4-pole
Dimensions								
Width (3-pole 4-pole)		mm	278 348	8	210 280	320 41	0	320 410
Height (standard) A05, A15, A16, DC greater than 600 V)		mm	363.5		296	468 51	8	462
Depth		mm	271		183	471		357
Approvals								
General product approvals			VDE, E	AC, CCC,	CE, C-Tick	VDE, E	AC, CCC	, CE, C-Tick
Marine / shipbuilding				RMRS		ABS, DNV	, LR, BV,	GL, PRS, RMRS
Breaking capacity			В	N	S	N	S	Н
Rated short-circuit breaking capacity								
Rated operational voltage U _e up to 415 V AC I _{cu} I _{cs}		kA	42 42	55 50	66 50	55 55	66 6	6 85 85
Rated operational voltage U_e up to 500 V AC $I_{cu} \mid I_{cs}$		kA	42 42	50 50	50 50	55 55	66 6	6 85 85
Rated operational voltage U _e up to 690 V AC I _{cu} I _{cs}		kA	- -	42 42	50 50	42 42	50 5	0 66 66
Rated operational voltage up to 690 V AC +20% 6), with Z opti	ion: A16 I _{cu} I _{cs}	kA	- -	- -	50 50	- -	- -	- -
Rated operational voltage U_e up to 1000 V AC, with Z option:	A05 I _{cu} I _{cs}	kA	- -	- -	- -	- -	- -	50 50
Rated operational voltage U _e up to 1150 V AC, with Z option:	A15 I _{cu} I _{cs}	kA	- -	- -	- -	- -	- -	- -
Rated short-time withstand current I _{cw} 5)								
Rated short-time with stand current I_{cw} at U_e up to 500 V AC	0.5 s	kA	-	-	-	55	66	85
	1 s	kA	42	42	50	50	66	85
	2 s	kA	-	-	-	35 ¹⁾ / 45 ²⁾	45	70
	3 s	kA	24	24	36	35 ¹⁾ / 45 ²⁾	35	60
Rated short-time withstand current I_{cw} at U_e up to 690 V AC	0.5 s	kA	-	-	-	42	50	66
	1 s	kA	42	42	50	42	50	66
	2 s	kA	-	-	-	35 ¹⁾ /42 ²⁾	45	66
	3 s	kA	24	24	36	30 ¹⁾ / 45 ²⁾	35	60
Rated short-time withstand current I _{cw} at DC	1 s	kA	-	-	-	-	-	-
Rated conditional short-circuit current I _{cc} of the non-autor	matic air circuit bre	eakers						
Up to 500 V AC		kA	-	42	50	55	66	85
Up to 690 V AC		kA	-	42	50	42	50	66
Up to 1000 V/1150 V AC, with Z option: A05		kA	-	_	-	-	-	50/-
Up to 1000 V/1150 V AC, with Z option: A15		kA	-	_	-	-	-	-
Up to 220 V/300 V DC		kA	-	-	-	-	-	-

Up to 600 V/1000 V DC

AC

 $^{^{1)}}$ Size 1 with $I_{n\ max.}$ $\leq\!2500\ A$ $^{2)}$ Size 1 with $I_{n\ max.}$ = 3200 A and $I_{n\ max.}$ = 4000 A

 $^{^{3)}~}$ Rated operational voltage $\rm U_e=1150~V$ $^{4)}~$ Rated operational voltage $\rm U_e=1000~V$

⁵⁾ At a rated voltage \geq 690 V the I_{cw} value of the circuit breaker corresponds with the I_{cu} or I_{cs} value

			AC					C	_
				Į					
	3W	L12			3WL13		3WL11	3W	L12
	Up to	1150			Up to 1150		1000 DC	Up to 600	0/1000 DC
	800				4000 6300)	2000		4000
	2	2			3		1		2
Withdr	awable	Fixed-m	nounted	Withdrawa	able Fixe	d-mounted	Fixed-mounted	Withdrawable	Fixed-mounted
3/4-	pole	3/4-	pole	3/4-pol	e 3	8/4-pole	4-pole	3/4-pole	3/4-pole
460		460		704 91		04 914	410	460 590	460 590
	518	46		468 51	8	462	462	468 518	462
4.	71	35	0/	471		357	357	471	357
	VDE EAC CO	CC, CE, C-Tick		VDE EAC	C, CCC, VDE, (TE C-Tick	VDE, EAC, CCC, CE, C-Tick	VDE FAC CO	CC, CE, C-Tick
ΔR	S, DNV, LR, B		IRS		, LR, BV, GL, I		ABS, DNV, LR, BV, GL, PRS, RMRS		V, GL, PRS, RMRS
N	S S	H	C 7)	н Н	C 3p	C 4p	DC		OC
66 66	85 85	100 100	130 130	100 100	150 150	130 130	-		-
66 66	85 85	100 100	130 130	100 100	150 150	130 130	_		_
50 50	75 75	85 85	100 100	85 85	150 150	130 130	-		_
- -	- -	- -	- -	- -	- -	- -	-		-
- -	- -	85 85	- -	85 85	125 125	125 125	-		_
- -	- -	50 50	- -	70 70	- -	- -	-		-
66	85	100	100	100	130	120	-		-
66	85	85	100	100	130	120	-		-
66	66 3) / 85 4)	66 ³⁾ /85 ⁴⁾	85	100	130	120	-		-
55 ³⁾ /66 ⁴⁾	55 ³⁾ / 75 ⁴⁾	55 ³⁾ / 75 ⁴⁾	75	100	130	120			-
50 50	75 75	85 85	100 100	85	130 130	120 120	-		_
50	66 ³⁾ /75 ⁴⁾	66 ³⁾ /85 ⁴⁾	85	85 85	130	120	-		
50	55 ³⁾ /75 ⁴⁾	55 ³⁾ /75 ⁴⁾	75	85	130	120			
	-	-	-	- 63	-	-	20	358)/309)/	25 ¹⁰⁾ /20 ¹¹⁾
							20	33 130 1	23 120
66	85	100	130	100	130	120	-		
50	75	85	100	85	130	120	_		_
_	_	85/85	-	85/85	-	-	-		_
-	-	-/50	-	70/70	-	-	-		_
-	-	-	-	-	-	-	20/20	35	/30

Breaking capacity

В Basic

25/20

- N ECO
- S Standard
- Н High
- С Very high
- DC DC

20/20

 $^{^{6)}}$ At 690 V AC +5% the $\rm I_{cu} = \rm I_{cs} = 85~kA$ $^{7)}$ Up to 3200 A rated current.

 $^{^{8)}}$ At $U_e = 220 \text{ V DC}$ $^{9)}$ At $U_e = 300 \text{ V DC}$

 $^{^{10)}}$ At $U_e = 600 \text{ V DC}$ At $U_e = 1000 \text{ V DC}$

3WL11

Basic units for AC

IEC 60947-2

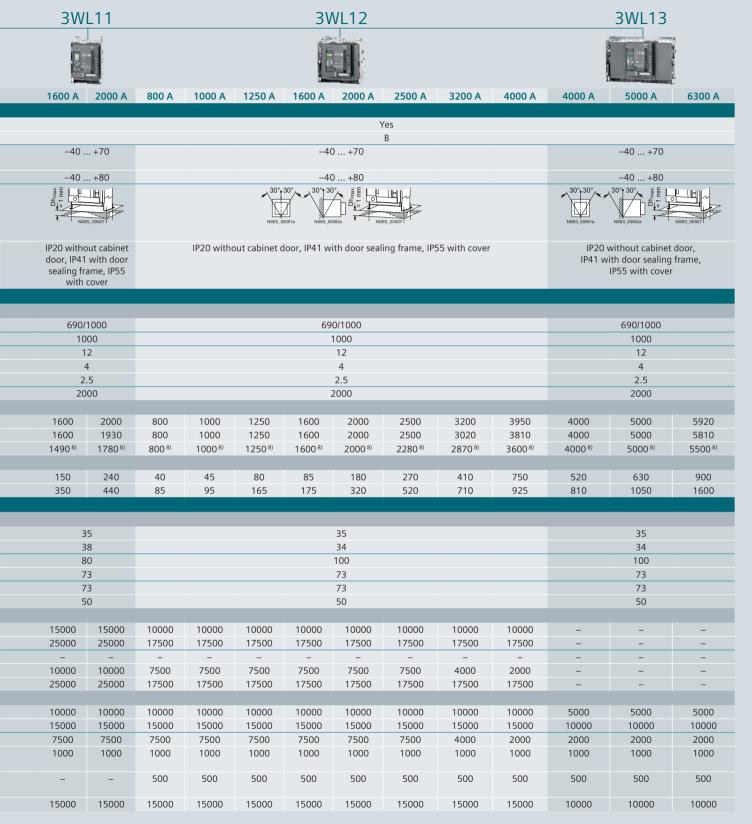
					1.				
			630 A	800 A	1000 A	1250 A	1000 A	1250 A	
Rated current									
Isolating function acc. to EN 60947-2 Utilization category						Yes B			
Permissible ambient temperature	During operation (in operation	°C		-21	5 +70	ь	-40 .	+70	
. cporatare	with LCD max. 55 °C) 1)				5 · / · 6			, , ,	
	Storage	°C		-41	0 +70		-40 .	+80	
Mounting position						A	30° 30° NSE0_00061a	30° 30° 30° 30° 30° 30° 30° 30° 30° 30°	
Degree of protection			IP20 without cabinet door, IP30 with doo sealing frame, IP54 with cover				IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover		
Supply									
Voltage									
Rated operational voltage U_e at 50/60 Hz	1000 V version	V AC		Up	to 690		690/	1000	
Rated insulation voltage U _i		V AC			1000		10		
Rated impulse withstand voltage U _{imp}	Main conducting paths	kV			12		1		
	Auxiliary circuits	kV			4		4		
Data di nata ni angati ang li salta na li	Control circuits ⁹⁾	kV			2.5			.5	
Rated rotor operational voltage U _{er}	2) 4)	V					20	00	
Permissible load for withdrawable versions		^	620	900	1000	1250	1000	1350	
At rear horizontal main connections	Up to 55 °C (Cu bare) Up to 60 °C (Cu bare)	A A	630 630	800 800	1000 1000	1250 1250	1000 1000	1250 1250	
	Up to 70 °C	A	630	800	1000	1250	1000	12108)	
Power loss at I _n	ορτο 70°C	7.	030	000	1000	1230	1000	1210	
With three-phase symmetrical load,	Fixed-mounted circuit breaker	W	31	50	78	122	100	105	
complete device (3/4p)	Withdrawable circuit breaker	W	62	100	156	244	195	205	
Switching cycles									
Switching times									
Make time		ms	<20	<20	<20	<20	3	5	
Opening time		ms	<20	<20	<20	<20	3	8	
Electrical make time (through closing coil) 5)		ms	<50	<50	<50	<50	8	0	
Electrical opening time (through shunt release	2)	ms	<35	<35	<35	<35	7	3	
Electrical opening time (instantaneous underv	voltage release)	ms	<50	<50	<50	<50	7	3	
Opening time due to ETU, instantaneous shor		ms	25	25	25	25	5	0	
Service life: Breaking capacity N and S, 3/4-									
Mechanical	Without maintenance	Operating cycles	20000	20000	20000	20000	15000	15000	
	With maintenance 6)	Operating cycles	7)	- 7\	7\	- 7)	25000	25000	
Electrical	Without maintenance 440 V	Operating cycles		80007)	80007)	8000 ⁷⁾	-	-	
	Without maintenance 690 V With maintenance 690 V	Operating cycles Operating cycles	8000 ⁷⁾	8000 ⁷⁾	8000 ⁷⁾	6500 ⁷⁾	10000	10000	
Service life: Breaking capacity H, 3-pole	with maintenance of	Operating cycles		/			25000	25000	
Mechanical	Without maintenance	Operating cycles					10000	10000	
Weendilled	With maintenance 6)	Operating cycles	-	_	_	_	15000	15000	
Electrical	Without maintenance 690 V	Operating cycles	_	_	_	_	7500	7500	
	Without maintenance 1000 V, with Z option: A05	Operating cycles	-	-	-	-	1000	1000	
	Without maintenance 1150 V, with Z option: A15	Operating cycles	-	-	-	-	-	-	

¹⁾ The LCD on the 3WL10 is always active.

The LCD off the SWETO is always accura.
 4000 A, size 2 in fixed-mounted version, 3-pole
 ETU76B with graphics display can be used up to max. 55 °C.

⁵⁾ Make time through closing coil for synchronization purposes (short-time excited) 50 ms.

⁶⁾ Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual). Greasing the breaker mechanism on the 3WL10, no replacement of components.



Periodic greasing of breaker mechanism on 3WL10

⁽see Manual), components not to be replaced

Cu painted black

⁹⁾ Motorized operating mechanism U_{imn}=1.2 kV

3WL11

Basic units for AC

IEC 60947-2 (continued)

					1:			
			630 A	800 A	1000 A	1250 A	1000 A	1250 A
Switching cycles								
Service life: Breaking capacity H, 4-pol	le							
Mechanical	Without maintenance	Operating cycles	-	-	-	-	10000	10000
	With maintenance 6)	Operating cycles	-	-	-	-	15000	15000
Electrical	Without maintenance 690 V	Operating cycles	-	-	-	-	7500	7500
	Without maintenance 1000 V	Operating cycles	-	-	-	-	1000	1000
	Without maintenance 1150 V ⁷⁾	Operating cycles	-	-	-	-	-	-
	With maintenance 6)	Operating cycles	-	-	-	-	10000	10000
Service life: Breaking capacity C								
Mechanical	Without maintenance	Operating cycles	-	-	-	-	-	-
	With maintenance 6)	Operating cycles	_	-	-	_	_	-
Electrical	Without maintenance 690 V	Operating cycles	-	-	-	-	-	-
	With maintenance 690 V 6)	Operating cycles	-	-	-	-	-	-
Switching frequency ⁸⁾								
Mechanical / electrical	690 V version	1/h	60/30	60/30	60/30	60/30	-	-
	1000 V /1150 V version	1/h	_	-	-	-	_	-
Connection								
Minimum phase size								
Copper bars, bare		Unit, mm ²	2×40×5	2×50×5		2× 50×10 12) 2× 50×8 12)	1× 60×10	2× 40×10
Copper bars, painted black		Unit, mm ²	_	-	-	-	1× 60×10	2× 40×10
Auxiliary conductor (Cu) max. number	of auxiliary conductors × cross-section	n (solid/stranded)					
Standard connection = screw	Without end sleeve				-	2× 0.5 2× 1.5 mm ² (AWG 20 16); 1× 2.5 mm ² (AWG 14)		
	With end sleeve acc. to DIN 462.	28 Part 2			-	1× 0.5 1× 1.5 mm ² (AWG 20 16)		
	With twin end sleeve				-			2× 1.5 mm² 10 16)
Screwless connection technology	Without end sleeve			(AW	2.5 mm ² G 20 14)		(AWG 2	2× 2.5 mm² 10 14)
	With end sleeve acc. to DIN 4622	28 Part 2			1.5 mm² G 20 16)			2× 1.5 mm² 10 16)
Position signaling switches								
Screwless connection technology					1× 2.5 mm G 20 14)	2	1× 0.5 1 (AWG 2	× 2.5 mm ² 0 14)
Weights								
3-pole	Fixed-mounted circuit breaker	kg			14		43	43
	Withdrawable circuit breaker	kg			17.3		45	45
	Guide frames	kg			21		25	25
4-pole	Fixed-mounted circuit breaker	kg			16		50	50
	Withdrawable circuit breaker	kg			19.3		54	54
	Guide frames	kg			25		30	30

⁶⁾ Maintenance means: Replacing main contact elements and arc chutes (see Operating Manual).

⁷⁾ Size 2 with order code "A15" and size 3. Data for very high breaking capacity.

Minimum interval time between 2 tripping operations
 3-pole switching with breaking capacity N and S: 45/h.

3WL13

30011 30012								JVVLIJ					
	1600 A	2000 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A	4000 A	4000 A	5000 A	6300 A
	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	5000	5000	5000
	15000	15000	15000	15000	15000	15000	15000	15000	15000	15000	10000	10000	10000
	7500	7500	7500	7500	7500	7500	7500	7500	4000	2000	2000	2000	2000
	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	-	-	500	500	500	500	500	500	500	500	500	500	500
	10000	10000	15000	15000	15000	15000	15000	15000	15000	15000	10000	10000	10000
	10000	10000	13000	13000	15000	15000	13000	13000	13000	13000	10000	10000	10000
	_	_	5000	5000	5000	5000	5000	5000	5000	-	5000	5000	5000
	_	_	10000	10000	10000	10000	10000	10000	10000	_	10000	10000	10000
	_	_	5000	5000	5000	5000	5000	5000	4000	_	1000	1000	1000
	_	_	10000	10000	10000	10000	10000	10000	8000	_	-	-	-
			10000	10000	10000	10000	10000	10000	0000				
	_	20/20	60/60 ⁹⁾	60/60 ⁹⁾	60/60 ⁹⁾								
		_	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
			20120	20120	20120	20120	20120	20120	20720	20120	20120	20120	20120
	2× 50×10	3× 50×10	1× 50×10	1× 60×10	2× 40×10	2× 50×10	3× 50×10	2× 100×10	3× 100×10	4× 120×10	4× 100×10	6× 100×10	6× 120×10
	2× 50×10	3× 50×10	1× 50×10	1× 60×10	2× 40×10	2× 50×10	3× 50×10	2× 100×10	3× 100×10	4× 100×10	4× 100×10	6× 100×10	6× 120×10
	2× 0.5 2	× 1.5 mm ²			2× 0.	.5 2× 1.5 ı	mm² (AWG 2	20 16):			2×	0.5 2× 1.5 m	m ²
	(AWG 20 . 2.5 mm ² (16); 1×					m² (AWG 14				(AWG 20 16); 1× 2.5 mm² (AWG 14)		
	1× 0.5 1 (AWG 20						1× 1.5 mm 20 16)	2				0.5 1× 1.5 m (AWG 20 16)	m ²
	2× 0.5 2	× 1.5 mm ²				2× 0.5	2× 1.5 mm	2			2×	0.5 2× 1.5 m	m ²
	(AWG 20	O 16)				(AWG	20 16)					(AWG 20 16)	
	2× 0.5 2 (AWG 20						2× 2.5 mm 20 14)	2				0.5 2× 2.5 m (AWG 20 14)	m ²
	2× 0.5 2						2× 1.5 mm	2				0.5 2× 1.5 m	m ²
	(AWG 20	J 16)				(AWG	20 16)					(AWG 20 16)	
	1× 0.5 1	× 2.5 mm ²				1× 0.5	1× 2.5 mm	2			1×	0.5 1× 2.5 m	m²
	(AWG 2	0 14)				(AWG	20 14)					(AWG 20 14)	
	43	43	56	56	56	56	56	59	64	85	82	82	90
	45	45	60	60	60	60	60	63	68	121	88	88	96
	25	25	31	31	31	31	31	39	45	52	60	60	70
	50	50	67	67	67	67	67	71	77	103	99	99	108
	54	54	72	72	72	72	72	76	82	146	106	106	108
	30	30	37	37	37	37	37	47	54	62	84	84	119

3WL11

¹²⁾ Horizontal 13) Vertical

Basic units for DC

IEC 60947-2

			2000 A	1000 A	2000 A	4000 A		
Rated current								
Size			1		2			
Isolating function acc. to EN 60947-2				Y	es			
Utilization category				I	В			
Permissible ambient temperature	Operation	°C	°C -40 +70					
	Storage	°C	-40 +80					
Mounting position			NSE0_00081a NSE0_00082a E NSE0_00827					
Degree of protection			IP20 without cabinet door, IP41 with door sealing frame, IP55 with cover					
Supply				55 W	23.01			
Voltage								
Rated operational voltage U _e at 50/60 Hz	1000 V version	V DC	1000		600/1000			
Rated insulation voltage U _i		V DC	1000		1000			
Rated impulse withstand voltage U _{imp}	Main conducting paths	kV	12		12			
	Auxiliary circuits	kV	4		4			
	Control circuits	kV	2.5		2.5			
Permissible load								
At rear horizontal main connections	Up to 40 °C (Cu black painted)	Α	2000	1000	2000	4000		
	Up to 55 °C (Cu black painted)	Α	1910	1000	2000	3640		
	Up to 60 °C (Cu black painted)	Α	1850	1000	2000	3500		
	Up to 70 °C (Cu black painted)	Α	1710	1000	1950	3250		
Power loss at I _n								
With symmetrical load	Withdrawable circuit breaker	W	150	280	770	1640		
Switching cycles								
Switching times								
Make time		ms	35		35			
Opening time		ms	38		34			
Electrical make time (through activation sol		ms	100		100			
Electrical opening time (through shunt relea		ms	73	73				
Electrical opening time (instantaneous unde	ervoltage release)	ms	73		73			
Endurance ³⁾								
Mechanical	Without maintenance	Operating cycles	10000	10000	10000	10000		
	With maintenance 2)	Operating cycles	15000	17500	17500	17500		
Electrical	Without maintenance	Operating cycles	1000	6000	6000	4000		
	Without maintenance 1000 V	Operating cycles	1000	1000	1000	1000		
	With maintenance 2)	Operating cycles	2000	17500	17500	17500		

¹⁾ Make time through activation solenoid for synchronization purposes (short-time excited) 50 ms.

²⁾ Maintenance means: Replace main contact elements and arc chutes (see Operating Manual).

 $^{^{3)}\,}$ Further technical specifications on request. $^{4)}\,$ At U $_{e}$ = 220 V DC

3WL12

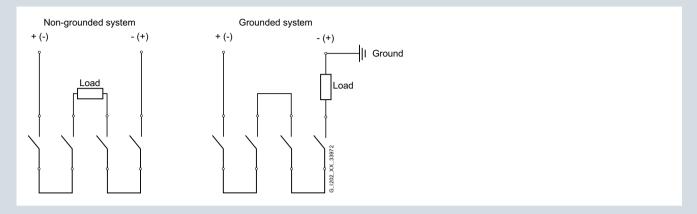
			2000 A	1000 A	2000 A	4000 A
Breaking capacity						
Short-circuit breaking capacity I _{cc}						
Up to 220 V DC		kA	20		35	
Up to 300 V DC		kA	20		30	
Up to 600 V DC		kA	20		25	
Up to 1000 V DC		kA	20		20	
Rated short-time withstand current I _{cw}						
0.5 s		kA	-		-	
1 s		kA	20	35	⁴⁾ / 30 ⁵⁾ / 25 ⁶⁾ / 2	0 7)
2 s		kA	-		-	
3 s		kA	-		-	
Breaking capacity						
Switching frequency						
690 V version		1/h	-	60	60	60
1000 V version		1/h	20	20	20	20
Connection						
Auxiliary conductor (Cu) max. number of a	auxiliary conductors × cross-section	(solid/strande	ed)			
Standard connection = strain-relief clamp	Without end sleeve		2× 0.5 2× 1	.5 mm² (AWG 2	0 16); 1× 2.5 r	mm² (AWG 14)
	With end sleeve acc. to DIN 46228	Part 2	1×	0.5 1× 1.5 m	nm² (AWG 20 1	16)
	With twin end sleeve		2×	0.5 2× 1.5 m	nm² (AWG 20 1	16)
Optional connection = tension spring	Without end sleeve		2×	0.5 2× 2.5 m	nm² (AWG 20 1	14)
	With end sleeve acc. to DIN 46228	Part 2	2×	0.5 2× 1.5 m	nm² (AWG 20 1	16)
Weights						
3-pole	Fixed-mounted circuit breaker	kg	43	56	56	64
	Withdrawable circuit breaker	kg	-	60	60	68
	Guide frames	kg	-	31	31	45
4-pole	Fixed-mounted circuit breaker	kg	50	67	67	77
	Withdrawable circuit breaker	kg	-	72	72	82
	Guide frames	kg	-	37	37	54

⁷⁾ At $U_e = 1000 \text{ V DC}$.

Basic units for DC

Application examples size 1

Permissible interconnection circuit diagrams for size 1, 1000 V DC non-automatic air circuit breakers



Application examples size 2

The connection to the circuit breakers is not dependent on direction and polarity; the circuit diagrams can be adapted accordingly. If the parallel or series connections are made directly to the connecting bars, for thermal reasons the continuous load on the circuit breakers must only be 80% of the permissible operational current. If the parallel or series connection is made at a distance of 1 m from the connecting bars, the circuit breaker can be used at full operational current load.

Required contact gaps at rated voltage	For 3-pole non-automatic air circuit breakers		For 4-pole non-automatic	air circuit breakers
	1-pole	2-pole	1-pole	2-pole
Rated operational voltage <300 V + 10%				
	NSS0_00539			
	only with grounded system	1 ²⁾	only with grounded system	1 ³⁾
Rated operational voltage >300 V + 10% 600) V + 10%			
			ļi.	
		only with grounded system	only with grounded system	1 ²⁾
Rated operational voltage >600 V + 10% 100	00 V + 10% ⁴⁾			
			NSS0_00595	
	only with grounded system	1	only with grounded system	only with grounded system

¹⁾ Conducting paths series-connected

□ Load

 ^{2) 2} parallel conducting paths
 3) 3 parallel conducting paths

⁴⁾ Version for 1000 V required, order with "-Z" and order code A05

[⊢] Grounded system

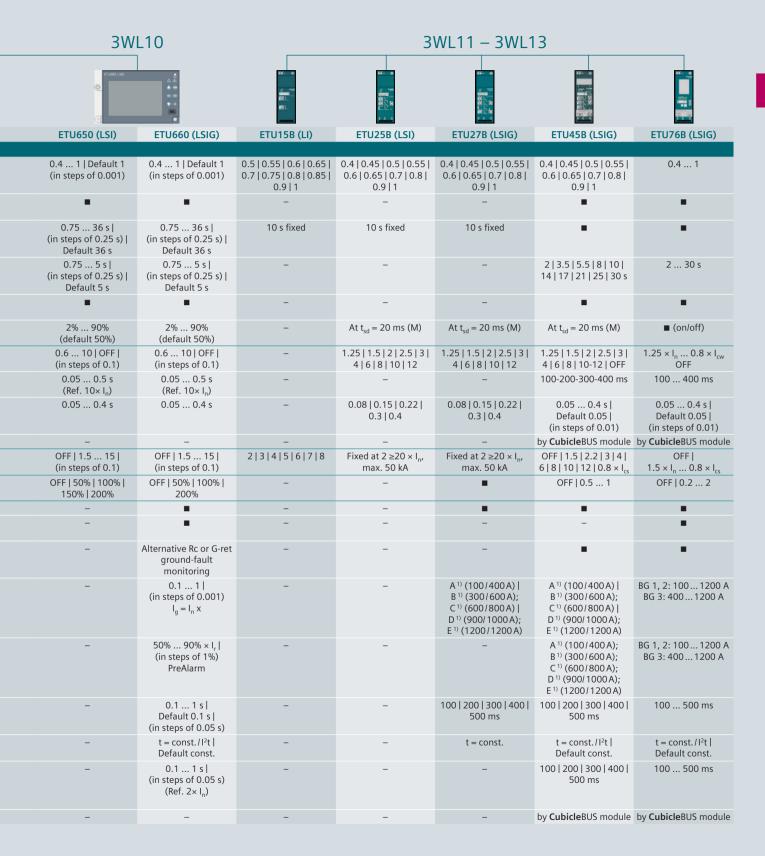
Electronic trip unit ETU

With watchdog monitoring

3 VV	L	_	U	
ETUSIOLSIG	ı			i L



				•	
			ETU320 (LI)	ETU350 (LSI)	ETU360 (LSIG)
Bas	sic protection functions				
L	Overload protection (L tripping operation)	Setting range of operating value $I_r = I_n \times$	0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4	0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4	0.4 0.5 0.6 0.7 0.75 0.8 0.85 0.9 0.95 1 Default 0.4
		Switchable overload protection (from I ² t- to I ⁴ t-dependent function)	-	-	-
		Setting range of delay t_r at I^2t (Reference point $6 \times I_n$)	0.75 1 2 5 8 10 14 17 21 25 s Default 0.75 s	0.75 1 2 5 8 10 14 17 21 25 s Default 0.75 s	0.75 1 2 5 8 10 14 17 21 25 s Default 0.75 s
		Setting range of delay t, at I ⁴ t (Reference point 6× I _n)	-	-	-
		Thermal memory can be switched on/off	Permanently switched on	Permanently switched on	Permanently switched on
		Phase failure sensitivity / asymmetry	-	-	-
S	Short-time delay short-circuit protection (ST tripping)	Setting range of operating value $I_{sd} = I_n \times$	-	1 1.5 2 2.5 3 4 6 8 10 Default OFF	1 1.5 2 2.5 3 4 6 8 10 Default OFF
		Setting range of delay time t _{sd} at I ² t	-	0.1 0.2 0.3 0.4 0.5 (Ref. 10× I _n)	0.1 0.2 0.3 0.4 0.5 (Ref. 10× I _n)
		Setting range of delay time t_{sd} (t = const.)	-	0.08 0.15 0.22 0.3 0.4 s	0.08 0.15 0.22 0.3 0.4 s
		ZSI function	-	-	_
T	Instantaneous short-circuit protection (INST tripping operation)	Setting range $2 = I_n \times$	OFF 1.5 2 3 4 6 8 10 12 15	OFF 1.5 2 3 4 6 8 10 12 15	OFF 1.5 2 3 4 6 8 10 12 15
N	Neutral conductor protection	Neutral conductor setting range $I_N = I_n \times$	OFF 50% 100% 200%	OFF 50% 100% 200%	OFF 50% 100% 200%
G	Ground-fault tripping (GF tripping)	Tripping function can be switched on/off	-	-	•
	Detection of ground-fault current through summation current formation	Alarm function can be switched on/off	-	-	Permanently switched on
	with internal or external N conductor transformer	Detection of ground-fault current through external current transformer	-	-	-
		Setting range of the operating current $I_g = I_n \times I_g$	-	-	0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 1
		Setting range of the operating current ${\rm I_g}$ for alarm	-	-	-
		Setting range of the delay time \mathbf{t}_{g}	-	-	0.1 0.2 0.4 0.6 0.8 s (fixed delay)
		Switchable grounding protection characteristic (I ² t-dependent function)	-	-	t = const./I ² t Default I ² t
		Setting range of delay time t _g at I ² t	-	-	$0.1 \mid 0.2 \mid 0.4 \mid 0.6 \mid 0.8 \text{ s}$ $(\text{Ref. } 2 \times \text{ I}_{\text{p}})$ $(\text{I}^2 \text{t dependent}) \mid$ Default $0.1 \ (\text{I}^2 \text{t})$
		ZSI-G function	-	-	-



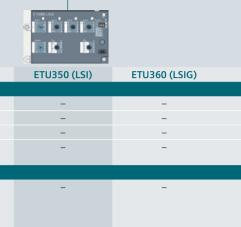
Switchable between parameter set A and B

Parameter set changeover

Voltage tap on top/bottom Metering function

Electronic trip unit ETU

With watchdog monitoring (continued)



3WL10

ETU320 (LI)

Tripping operation as a result of extended protection function: (including: phase asymmetry current/voltage, harmonic distortion current/voltage, under/overvoltage, phase rotation direction, active power in/opposite to normal direction, under/over-frequency, protection functions dependent on direction of power flow)	-	-	-	
Mode of communication				
Communication PROFIBUS PROFINET Modbus RTU Modbus TCP	-	-	_	
Output modules				
Signals via relay: Overload warning, load shedding / load carrying, leading signal, overload tripping 200 ms, temperature alarm, phase asymmetry, instantaneous short-circuit release, short time-delayed short-circuit release, overload trip, neutral conductor trip, auxiliary relay, ETU faults, grounding protection tripping and grounding protection alarm (only with grounding protection module)	IOM300	IOM300	IOM300	

Increment size when settings are made for the ETU76B using the menu

From to	Increment size
0 1	0.1
1 100	1
100 500	5
500 1000	10
1000 1600	50
1600 10000	100
10000 max.	1000



Connection

Main circuit connection

	3W	L10		3WL11 -	- 3WL13	
Connection	Fixed-mounted	Withdrawable	Fixed-mounted		Withdrawable	
Front	Direct	Extended		0000		
	Extended		1-hole	2-hole	1-hole	2-hole
	Broadened					
Rear	Vertical	Vertical	Vertica		Vertical	Flanges
	Horizontal	Horizontal	Horizon	tal	Horizo	
		Broadened				
cable	Cable terminals	Cable lug				

Auxiliary circuit connections

3WL 10: Withdrawable / fixed-mounted version

• Direct engagement of the auxiliary conductor vertically onto the circuit breaker or horizontally in the guide frame



Screwless connection technology (push in)

3WL11 – 3WL13: Withdrawable versions

- Connection of the internal auxiliary switches to the male connector on the switch side
- When fully inserted, connection with the sliding contact module in the guide frame

3WL11 - 3WL13: Fixed-mounted version

• Engagement of the auxiliary supply connectors directly onto the circuit breaker

Coding pins on the connectors prevent them being inserted in the wrong slots







Screwless connection technology (tension spring) (optional)

Operating mechanism, auxiliary release, auxiliary switch

Operating mechanism

The circuit breakers are available with various optional operating mechanisms:

- Manual operating mechanism with mechanical closing (standard design)
- Manual operating mechanism with mechanical and electrical closing
- Motorized operating mechanism with mechanical and electrical closing

The operating mechanisms with electrical closing are suitable for synchronization tasks.

	Available for a	ir circuit breakers
	3WL10	3WL11 – 3WL13
Closing coils (CC)		
Undervoltage releases (UVR) / shunt releases (ST)	•	
Shunt releases (ST)		
Remote reset magnets (RR)		
Spring charging motor (MO)		
Mechanical operating cycles counters		-

3WL10 system overview

IEC AC ..

For a complete and verified configuration of your molded-case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

Basic units



Size 0

Releases



Electronic trip units ETU (LI, LSI, LSIG)



Electronic trip units ETU (LSI,

Accessories



Communication and I/O modules



Rating plugs Breaker Connect modules



Metering function (Basic/ Advanced)



External ground fault transformers

Main conductor connections



Fixed-mounted, withdrawable versions



Rear vertical/horizonta connections



Rear vertical/horizontal Front connections



Front connections, extended



Terminals for CU/AL cable connection

Motors



Spring charging motor

Accessories



Auxiliary releases / closing coils





Shunt releases, undervoltage releases

Closing coils

Auxiliary switches and signaling switches





Auxiliary, alarm, and signaling switches

Position signaling switches

Interlocking











Interlocking sets

Locking devices

Locking mechanisms

Door sealing frames

Protective covers

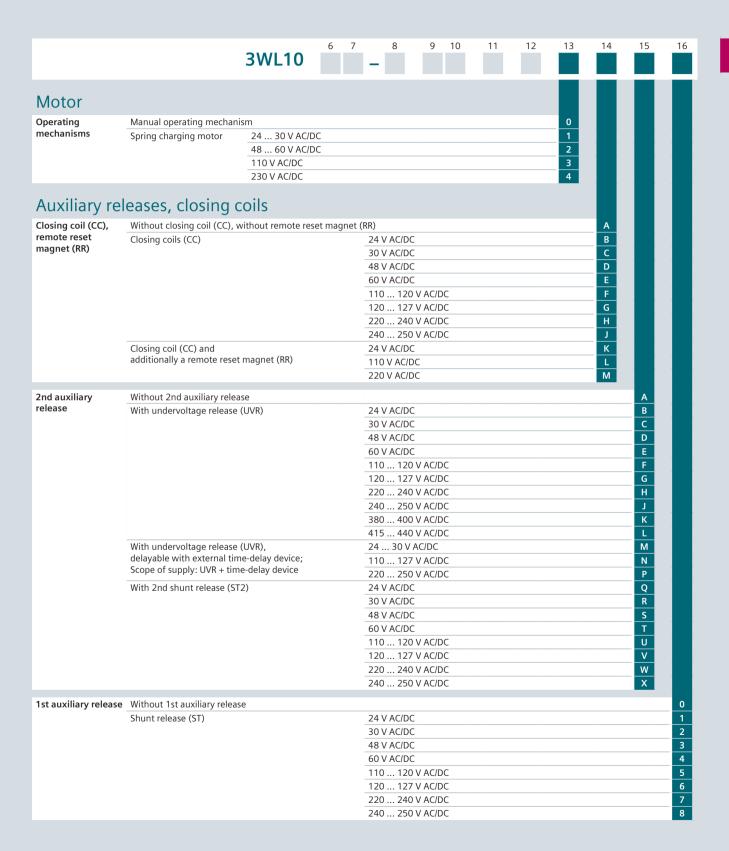
Structure of the article numbers

Basic configuration

For a complete and verified configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl10-configurator

			6 7	8	9 10	11	12	13	14	15	
		3WL10		-	9 10		-	-	14	13	
						П					
Basic unit a	ind ETU										
Rated current	630 A		0 6								
	800 A		0 8								
	1000 A		1 0								
	1250 A		1 2								
Breaking capacity	B Basic (I _{cu} = 42	kA at 440 V)		1							
z.cag capacity	N ECO (I _{cu} = 55 I			2							
		= 66 kA at 440 V)		3							
Without ETU	Without metering fur				AA						
ETU 3-series			ETU220 (U)		A D						
(without a	Without metering function	With ETU	ETU320 (LI) ETU350 (LSI)		A B						
communication			ETU360 (LSIG)		A D						
link)			£10300 (£310)		^						
ETU 6-series		With ETU	ETU650 (LSI)		Е						
			ETU660 (LSIG)		F						
	Without a	Without metering f	unction		А						
	communication link										
	With a communication link	Without metering f		1	В						
	Communication link	Metering function Basic	Voltage tap on		С						
		Metering function	Voltage tap on Voltage tap on		D E						
		Advanced	Voltage tap on		F						
			voltage tap on	top							
Number of poles	Fixed-mounted versions	3-pole				0					
	versions	4-pole	Neutral left			1					
	Withdrawable	3-pole	Neutral right			3					
	Withdrawable	4-pole	Neutral left			4					
		1 poic	Neutral right			4 5					
Connection	1 ¹⁾										
Installation type	Withdrawable	Without frame					0				
		Rear vertical conne	ction				1				
		Rear horizontal con	nection				2				
		Adapter for compre					4				
		Front-accessible, ex		for main o	ircuit connec	tion	5				
	Fixed-mounted	Rear vertical conne					1				
	versions	Rear horizontal con					2				
		Front terminal for r		ection			3				
		Circular conductor		fa.u !	duanda a	tion	4				
		Front-accessible, ex	xtended terminal	tor main o	ircuit connec	tion	5				

¹⁾ Broadened connections available as accessories.



Accessory options

Configure your air circuit breaker easily online at www.siemens.com/lowvoltage/3wl10-configurator

To specify the options, a appropriate order code(add "-Z" to the complete Article s).	No. and indicate the	2\\/I	Z	Ord	ler c	ode
			JVVL.				Ξ
Accessories for	basic configuration						
	-						
	the fixed mounting the fixed-mounted circuit breaker is it ed if it is to be extended with function						
Mounting options for	Floor mounting		Mounting support s	standard	Α	0	7
ixed mounting 1)			Mounting support	extended ²⁾	S	5	6
	Rear panel mounting onto mounti	ng plate	Side wall extended	2)	S	5	7
Accessories for Rating plugs	electronic trip units	ETU					
 The electronic trip units ar circuit breaker current (<i<sub>n</i<sub> To downrate the circuit breaker 	e equipped as standard with a rating _{n max}). The rated current of the selected eaker, the rated current of less than I, be activated using rating plugs (L = OF	d rating plug must be less than max is selected for the rating p	n or equal to In may.		ı		
Rating plug	For setting the rated current In		For all ETU	400 A	В	0	4
				630 A	В	0	6
				800 A	В	0	8
				1000 A	В	1	0
	For setting the rated current I _n ,		630 800	400 A	L	0	4
	with overload protection $L = OFF$			630 A	L	0	6
	with overload protection L = OFF			800 A	L	0	8
				1000 A	L	1	0
				1250 A	L	1	2
	For setting the rated current I_n ,		For ETU660 only	400 A	G	0	4
	For enabling of the residual currer The residual current function is or			630 A	G	0	6
	Advanced metering function.	ly possible with the Mr		800 A	G	0	8
				1250 A	G	1	2
	nt communication modules can be use						
-	gital I/O module (Z option K56), only		an be used.				
Communication modules	COM040	PROFIBUS			F	0	2
	COM041	PROFINET			F	0	3
	COM043	Modbus TCP			F	1	1
	COM042	Modbus RTU			F	1	2
electronic components is a	odules h a communications interface is order also supplied ready installed. the Breaker Connect module for 24 V	·		,			
Breaker Connect modules	110 240 V AC/DC				F	2	6
I/O modules interna	al						
I/O modules internal	Digital I/O module IOM040	2 inputs, 2 outputs			K	5	6

¹⁾ These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall.

²⁾ Not possible in connection with or as an alternative to the mounting support, standard (A07)

, , , ,						
appropriate order code	add "-Z" to the complete Article N (s).	No. and indicate the	∍ 3WLZ	-	der c	ode
			3 VV LZ	-		
Accessories for	the motor					
Mechanical operating cycl	es counter, 5-digit			С	0	1
Auxiliary switch	nes and signaling swit	ches				
 For currents <100 mA for The auxiliary/signaling sv minimum load above 	vitches for currents >100 mA and up to 4 PLC connections, these auxiliary and sig vitches for 24 V DC digital signals are des 1 mA at 5 V DC and a pacity of 100 mA at 24 V DC.	gnaling switches can be		ı		
Position signaling switche	s for guide frames 1)	2 CO 2 CO 2 CO (co	onnected test disconnected position)	К	5	5
Signaling switches	Ready-to-close signaling switches		1 CO digital, 24 V DC	К	5	0
	Tripped signaling switches (S24)		1 CO digital, 24 V DC	К	5	3
	Spring charged signaling switches (S21)	1 CO digital, 24 V DC	К	5	4
A 111 11 1	ON LOFE AUN				۱.,	1, 1
Auxiliary switches	ON / OFF AUX	4 CO digital, 24 V DC		K	15	1
Auxiliary switches	ON / OFF AUX	4 CO digital, 24 V DC 2 CO 400 V AC + 2 CO		K	5 5	2
,	ng and interlocking					
,	ng and interlocking To prevent movement of					2
Locking, blocki	ng and interlocking	2 CO 400 V AC + 2 CO	D digital, 24 V DC Made by Ronis	K		2
Locking, blocki	ng and interlocking To prevent movement of	2 CO 400 V AC + 2 CO Cylinder lock For no more than 3 p	D digital, 24 V DC Made by Ronis	K	5 7	2
Locking, blocki Locking devices 1) Locking mechanisms	ng and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnec	2 CO 400 V AC + 2 CO Cylinder lock For no more than 3 poted position	O digital, 24 V DC Made by Ronis adlocks, 8 mm	R R R	5 7 6 7	8 5 9
Locking, blocki	ng and interlocking To prevent movement of withdrawable circuit breaker	2 CO 400 V AC + 2 CO Cylinder lock For no more than 3 posted position Cylinder lock, made by	O digital, 24 V DC Made by Ronis adlocks, 8 mm	K R R	5 7 6	8 5
Locking, blocki Locking devices 1) Locking mechanisms	ng and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnector prevent unauthorized activation	2 CO 400 V AC + 2 CO Cylinder lock For no more than 3 posted position Cylinder lock, made by	Made by Ronis adlocks, 8 mm by Ronis adlocks, plastic 4 mm	K R R	5 7 6 7	2 8 5 9
Locking, blocki Locking devices 1) Locking mechanisms	ng and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnector prevent unauthorized activation	2 CO 400 V AC + 2 CO Cylinder lock For no more than 3 p ted position Cylinder lock, made b For no more than 3 p	Made by Ronis Madlocks, 8 mm by Ronis adlocks, plastic 4 mm adlock, metal 7 mm	K R R S S	5 7 6 7 0	8 5 9 8
Locking, blocki Locking devices 1) Locking mechanisms	ng and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnector prevent unauthorized activation	Cylinder lock For no more than 3 pted position Cylinder lock, made befor no more than 3 per no more than 3 per no more than 2 p	Made by Ronis Madlocks, 8 mm by Ronis adlocks, plastic 4 mm adlock, metal 7 mm	R R S S S	7 6 7 0 2	8 5 9 8 2 3 7
Locking, blocki Locking devices 1) Locking mechanisms Locking devices	ng and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF)	Cylinder lock For no more than 3 pted position Cylinder lock, made befor no more than 3 per no more than 3 per no more than 2 p	Made by Ronis Made by Ronis Madlocks, 8 mm Dy Ronis Madlocks, plastic 4 mm Madlocks, metal 7 mm Madlocks, metal 8 mm Madlocks, plastic 4 mm	R R S S S S S S	7 6 7 0 2 2	8 5 9 8 2 3
Locking, blocki Locking devices 1) Locking mechanisms Locking devices	ng and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF) For mechanical ON and/or OFF on	Cylinder lock For no more than 3 p ted position Cylinder lock, made b For no more than 1 p For no more than 2 p For no more than 3 p	Made by Ronis Made by Ronis adlocks, 8 mm by Ronis adlocks, plastic 4 mm adlocks, metal 7 mm adlocks, metal 8 mm adlocks, plastic 4 mm adlocks, metal 7 mm adlocks, metal 7 mm	R R S S S S S	7 6 7 0 2 2 2	2 8 5 9 8 2 3 7
Locking, blocki Locking devices 1) Locking mechanisms Locking devices	ng and interlocking To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF) For mechanical ON and/or OFF on	Cylinder lock For no more than 3 pted position Cylinder lock, made by For no more than 1 provided position For no more than 2 provided position for no more t	Made by Ronis Made by Ronis adlocks, 8 mm by Ronis adlocks, plastic 4 mm adlocks, metal 7 mm adlocks, metal 8 mm adlocks, plastic 4 mm adlocks, metal 7 mm adlocks, metal 7 mm	R R S S S S S S	7 6 7 0 2 2 2	8 5 9 8 2 3 7 2

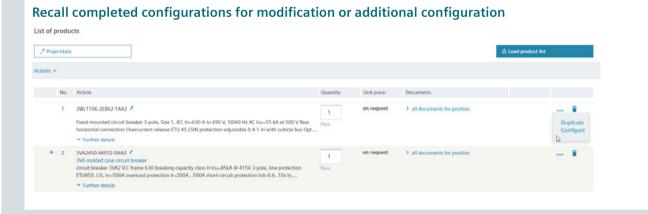
¹⁾ Can be used not only when guide frame is ordered separately, but also with complete order (breaker + guide frame).

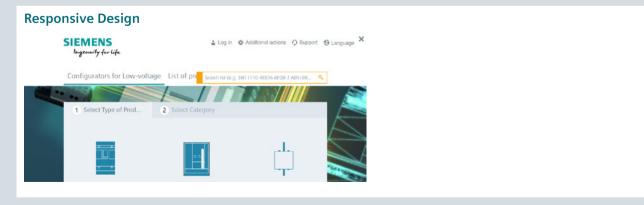
Online configurator highlights

www.siemens.com/lowvoltage/configurators



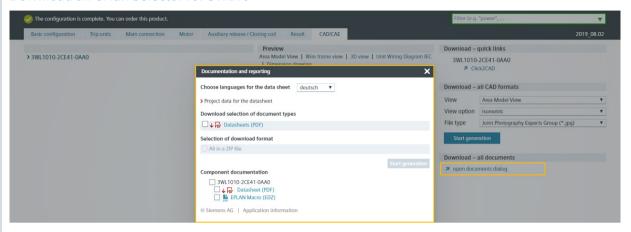
Product list stores multiple configurations and can transfer them collectively to the shopping cart List of products /* Projectdata Actions > No. Article No. Article 1 3WL1106-2E862-1AA2 / Fixed-mounted circuit breaker 3-pole, Size 1, IEC In-630 A to 690 V, 50/60 Nz AC Icu-55 NA at 500 V Rear Indicatoral connection Overcurrent release ETU 45 LSN protection adjustable 0.4-1 in with cubicle bus Opt... ** Further details 1 3WL2650-6KP32-0AA0 / 3W molded case circuit breaker circuit breaker 3-Dole, Size 1, IEC In-630 A to 690 V, 50/60 Nz AC Icu-55 NA at 500 V Rear Indicatoral connection Overcurrent release ETU 45 LSN protection adjustable 0.4-1 in with cubicle bus Opt... ** Further details ** 2 3VA2450-6KP32-0AA0 / 3W molded case circuit breaker circuit breaker 3-Dole, Size 1, IEC In-630 Na bort-circuit protection Indicatoral Connection Indicatoral Connec



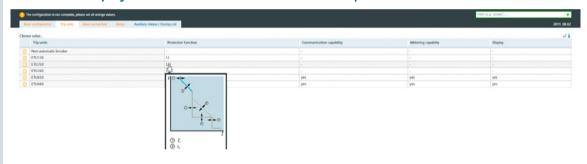


www.siemens.com/lowvoltage/3wl10-configurator

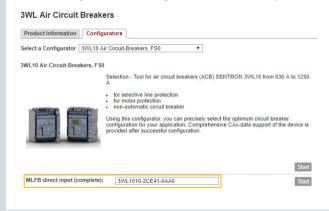
Download an ePlan Selector for 3WL10



Mouseover display of characteristic curves to show the protection function



Direct entry of an already known MLFB or parts of an MLFB



Guide frames

Guide frames for ordering separately without circuit breakers



- Guide frames without breakers up to 1250 A
- Note: All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as COMPSS signaling switches are configured without frames in the withdrawable circuit breaker and defined there by means of Z options, and are included with the switching device. The PSS standard is always included in the frame and can be changed to an electronics-capable signal by means of a Z option.

Number of poles	Connection type	Article No.
3-pole	Rear vertical	3VW8112-0AA01
	Rear horizontal	3VW8112-0AB01
	4× 240 mm ² Cu/Al cable connection, for compression lugs	3VW8112-0AD01
	Front connection bars, extended	3VW8112-0AE01
4-pole	Rear vertical	3VW8112-0BA01
	Rear horizontal	3VW8112-0BB01
	4× 240 mm ² Cu/Al cable connection, for compression lugs	3VW8112-0BD01
	Front connection bars, extended	3VW8112-0BF01

	To specify the options, add "-Z" to the complete Article No. and indicate Or					
the appropriate order code(s)		3VW8Z				
Locking, blocking a	nd interlocking					
Locking devices	To prevent movement of	Cylinder lock, made by Ronis	R	7	8	
	withdrawable circuit breaker	For no more than 3 padlocks, 8 mm		6	5	
Locking mechanisms	To prevent movement to disco	onnected position (only in combination with R78 or R65)	R	7	9	
Auxiliary/signaling	switches					
Position signaling switch PSS for guide frame	For 24 V DC digital signals, for minimum currents	2 CO 2 CO 2 CO (connected test disconnected position)	К	5	5	

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard. For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified. The auxiliary/signaling switches for 24 V DC digital signals are designed for

• a minimal load from 1 mA at 5 V DC and

- a maximum breaking capacity of 100 mA at 24 V DC.

Electronic trip units ETU and accessories

Electronic trip uni	ts (ETU)				
	Version	With communications / metering function / enhanced protection functions	Туре	Protective function	Article No.
The state of the s	With rotary coding switches	No	ETU320	LIN	3VW9011-5AA00
• ш			ETU350	LSIN	3VW9012-5AA00
0			ETU360	LSING	3VW9012-7AA00
(m.)	With display	Yes	ETU650 ETU660	LSIN LSING	3VW9017-5AA00 3VW9017-7AA00
			E10000	LSING	3VW9017-7AA00
Metering function	ns for ETU650 or ETU660				
Marine Int	Description	Protective function / version	Arrangemer	nt	Article No.
0	Metering function	MF Basic	_		3VW9011-0AT01
		MF Advanced	_		3VW9011-0AT04
	Set of cables for voltage tap	For 4-pole circuit breakers with neutral right	Top or botto	m	3VW9011-0AT08
	for MF	For 4-pole circuit breakers with neutral left	Тор		3VW9011-0AT75
0			Bottom		3VW9011-0AT76
STATE STATE STATE OF THE STATE		For 3-pole circuit breakers	Тор		3VW9011-0AT72
		•	Bottom		3VW9011-0AT73
External current t	ransformers for N conductor				
277	Accessory for	Purpose			Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	For 3-pole circuit breakers only			3VW9011-0AA30
External current t	ransformers for grounded tra	ansformer star point			
	Accessory for	G _{ret} (ground return)			Article No.
	ETU660	100 A			3VW9011-0GF30
		250 A			3VW9011-0GF31
Summation curre		T for residual current measurement			
		etering function and Rc rating plug			Autiala N-
	Accessory for	Purpose			Article No.
	ETU660	For external residual current measurement			3VW9011-0RC30
Remote reset mag	nets RR for the circuit break	ers including tripped signal			
(See	Remote reset magnet (RR)	for resetting the circuit breaker after tripping as a	result of overco	urrent conditions	
	Accessory for	Voltage			Article No.
	ETU320, ETU350, ETU360,	24 V DC			3VW9011-0AK03
	ETU650, ETU660	110 V AC/DC			3VW9011-0AK05
		250 V AC/DC			3VW9011-0AK06
Replacement batt	eries for electronic trip units	ETU			
	Accessory for				Article No.
	ETU320, ETU350, ETU360, ET	'U650, ETU660			3VW9011-0AT38

System overview, page 1/20 Siemens LV 10 · 10/2019 1/29

Electronic trip units ETU and accessories

Rated current module / rating plug



• Only one module is possible per circuit breaker. Accessory for Version Rated current In Article No. ETU320, ETU350, ETU360, Rating plugs for setting (< I_{n max}) 400 A 3VW9011-0AA53 ETU650, ETU660 the rated current In 630 A 3VW9011-0AA55 800 A 3VW9011-0AA56 1000 A 3VW9011-0AA57 1250 A 3VW9011-0AA58 ETU 6-series Rating plugs without overload protection 400 A 3VW9011-0LF53 (L = OFF) and for setting $(< I_{n max})$ 3VW9011-0LF55 630 A the rated current I_n 800 A 3VW9011-0LF56 1000 A 3VW9011-0LF57 1250 A 3VW9011-0LF58 ETU660 Rating plug Rc for ETU660, 400 A 3VW9011-0RC53 for enabling the residual current protection 630 A 3VW9011-0RC55 function and setting ($< I_{n \text{ max}}$) of the rated 800 A 3VW9011-0RC56

1250 A

3VW9011-0RC58

CB bus modules - communication modules



- · Contains the communication module
- · No more than two different communication modules can be used at the same time.
- · When using a digital I/O module IOM040 (Z option K56) only one communication module can be used.

current I_n. The residual current function is

only possible with the MF Advanced metering

• Can only be used with ETUs of the 6-series and a Breaker Connect module for connection to the circuit breaker. This can also be configured directly on the device by means of a Z option if the communications interface to the ETU 6-series is selected.

Co	mmunication modules	Protocol	Article No.
CO	M040	PROFIBUS	3VW9011-0AT15
CO	M041	PROFINET	3VW9011-0AT14
CO	M043	Modbus TCP	3VW9011-0AT16
CO	M042	Modbus RTIJ	3VW9011-0AT17

CB bus modules - I/O modules external IOM300



For snapping onto standard mounting rail

Accessory for	Maximum switching current per contact	Inputs	Outputs	Article No.
ETU 6-series	 2 A at DC ≤30 V 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	11	10	3VW9011-0AT20

CB bus modules - I/O modules internal IOM040



• When using a digital I/O module IOM040, only one communication module can be used.

Accessory for	Maximum switching current per contact	Inputs	Outputs	Article No.
ETU 6-series	 2 A at DC ≤30 V 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	2	2	3VW9011-0AT30

Actuator module COM ACT



- For switching the circuit breaker on/off remotely via communication
- Actuation of the closing coil (CC) and the 1st shunt release (ST)
- Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt release.
- Automatically included if the communications interface of the ETU 6-series is selected in the basic circuit breaker configuration.

Accessory for	Article No.
ETU 6-series	3VW9011-0AT10

Breaker Connect modules



• For the external power supply for the electronics components

Voltage	Article No.
110 240 V AC/DC	3VW9011-0AT06
24 48 V DC	3VW9011-0AT07

Auxiliary contact signaling switch for communications interface



- · Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions.
- Can only be used in combination with communication module.
- Can be combined with standard position signaling switches or ready-to-close signaling contacts.
- · Note: Both signaling switches are automatically included in the basic circuit breaker if the communications interface of the ETU 6-series is selected (COM PSS only with withdrawable versions).

Function	Article No.
Ready-to-close signaling switch for communication COM RTC	3VW9011-0AT11
Position signaling switch COM PSS (for withdrawable breakers only)	3VW9011-0AT12

Test devices and Breaker Data Adapters



• Can be used for all ETU 3-series and 6-series Function Article No. Type Test device TD310 3VW9011-0AT32 • For the trip test via ETU and tripping solenoid including release • The ETU and the tripping solenoids are activated by means of a battery built into the test device • On activation in the ETU 6-series, the parameters can be configured on the display Breaker Data Adapter TD410 3VW9011-0AT34 • As gateway for parameterization of the ETU with powerconfig • For generation of a report of the set parameters with powerservice Test devices and Breaker Data Adapters TD420 3VW9011-0AT33 As gateway for parameterization of the ETU with powerconfig Testing a tripping operation using powerconfig · For use with the powerservice software Testing of the basic protection functions LSING Testing of the basic protection functions
 Test data storage

- Readout of ETU buffer
- Generation of a report of the set parameters

Accessories and spare parts

ont terminals f	or main circuit coni	nections acc. to IEC 60947-2			
	To be ordered:	separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
	Fixed-mounted	Front terminals for main circuit connection		3-pole / 3 units	3VW9011-0AL01
n 00 00				4-pole / 4 units	3VW9011-0AL02
		Extended main terminals,	Front terminals for main	3-pole / 3 units	3VW9011-0AL77
		including insulating plate and phase barriers, standard	circuit connection	4-pole / 4 units	3VW9011-0AL78
		Broadened main terminals, including insulating plate and	Front terminals for main circuit connection, top	3-pole / 3 units	3VW9011-0AL73
		extended phase barriers	Front terminals for main circuit connection, bottom	3-pole / 3 units	3VW9011-0AL75
			Front terminals for main circuit connection, top, bottom	4-pole / 4 units	3VW9011-0AL74
् व्य	Withdrawable	Front-accessible terminals for main circuit	Flange of the guide frame	3-pole / 3 units	3VW9011-0AN01
		connection		4-pole / 4 units	3VW9011-0AN02
		Broadened main circuit connections	Front-accessible terminals	3-pole / 3 units	3VW9011-0AN73
3 5		Stoddenied mani en eart ee mieetions	for main circuit connection	4-pole / 4 units	3VW9011-0AN74
ar terminals fo	r main circuit conn	ections acc. to IEC 60947-2			
		separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
	Fixed-mounted	Rear terminals for main circuit		3-pole / 3 units	3VW9011-0AL32
		connection; rotatable for horizontal / vertical connection, including terminal cover		4-pole / 4 units	3VW9011-0AL33
	Withdrawable	Rear terminals for main circuit		3-pole / 3 units	3VW9011-0AN32
		connection; rotatable for horizontal / vertical connection, including terminal cover		4-pole / 4 units	3VW9011-0AN33
10		Broadened main circuit connections	Rear horizontal main	3-pole / 3 units	3VW9011-0AN75
3			connections	4-pole / 4 units	3VW9011-0AN76
-/Al cable conn	ections				
	To be ordered:	separately for top and bottom			
	Fixing	Version	Mounted onto	Number of poles / quantity	Article No.
7	Fixed-mounted	Circular conductor terminals 4 × 240 mm ²	Front terminals for main	3-pole / 3 units	3VW9011-0AL71
0000		for front cable connection, including insulating plate and high, extended terminal cover	circuit connection	4-pole / 4 units	3VW9011-0AL72
v -6 -4	Withdrawable	Set of circular conductor connection	Rear vertical main	3-pole / 3 units	3VW9011-0AN71
		pieces 4×240 mm² for compression lugs, rear cable connection	connections	4-pole / 4 units	3VW9011-0AN72
xiliary supply o	connectors in push	-in version			
200		uctor terminal in push-in version for upgrading ways fitted at the factory with the exact numb			
	Version				Article No.
	Push-in				3VW9011-0AB11

Accessories for connection

Terminal covers fo			
	 Necessary iso 	for front main circuit connection for fixed-mounting lation measures are always supplied with the corresponding connection technology and do not dered separately.	
	Version	Number of poles / quantity	Article No.
1-1-1	Standard	3-pole / 2 units	3VW9723-0WD30
		4-pole / 2 units	3VW9724-0WD40
	Extended	3-pole / 2 units	3VW9723-0WF30
		4-pole / 2 units	3VW9724-0WF40
Phase barriers for f	fixed breakers		
	do not need t	lation measures are always supplied with the corresponding connection technology and to be ordered separately. voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional.	
	Height	Number of poles / quantity	Article No.
	100 mm	3-pole / 4 units	3VW9723-0WA00
• •	(Standard)	4-pole / 6 units	3VW9724-0WA10
	200 mm	3-pole / 4 units	3VW9723-0WA01
	(extended)	4-pole / 6 units	3VW9724-0WA11
Support for mount	ing the fixed-mo	ounted breaker on the floor	
	For fixed-mou	unted versions	
	Version	Purpose	Article No.
	Mounting support (circuit breaker to a potion A07)	feet)	3VW9011-0BB51
	Mounting support (circuit breaker to including mechatransmission of position on circuiside panel (= Z o	feet), anical switch uit breaker • Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) • Mutual mechanical interlockings for 3WL/3VA (for 3VW9011-0BB21)	3VW9011-0BB52
Extension kit for m	odification of th	ne side wall of the fixed-mounted breaker	
		unted versions ng on mounting plate ion for mechanical transmission of switch position on circuit breaker side panel (= Z option S57)	
1	Version	Purpose	Article No.
	Extension kit for	 Fixation for external auxiliary switches AUX 15 W (3VW9011-0AG15) Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16) Mutual mechanical interlockings for 3WL/3VA (for 3VW9011-0BB21) 	3VW9011-0BB53

Accessories and spare parts

Motor

Spring charging motor (MO) • For automatic charging of the stored-energy operating mechanism Voltage 24 ... 30 V AC/DC 34 ... 30 V AC/DC 34 ... 40 V AC/DC 30 V AC/DC

Mechanical operating cycles counters



- In combination with a spring charging motor
- 5 digits

Article No. 3VW9011-0AH07

Auxiliary releases, closing coils

Closing coils / shunt releases CC / ST Voltage Article No. 24 V AC/DC 3VW9011-0AD01 30 V AC/DC 3VW9011-0AD02 48 V AC/DC 3VW9011-0AD03 60 V AC/DC 3VW9011-0AD04 110 ... 120 V AC/DC 3VW9011-0AD05 120 ... 127 V AC/DC 3VW9011-0AD06 220 ... 240 V AC/DC 3VW9011-0AD07 240 ... 250 V AC/DC 3VW9011-0AD08 380 ... 400 V AC 3VW9011-0AD17 415 ... 440 V AC 3VW9011-0AD18

TD320 function test unit for closing coil / shunt release



 Version
 Article No.

 For all closing coils / shunt releases
 3VW9011-0AT31

Auxiliary/signaling switches



- The auxiliary/signaling switches for 24 V DC digital signals are designed for a
 - minimum load above 1 mA at 5 V DC and a
 - maximum breaking capacity of 100 mA at 24 V DC.

maximum preaming capacity or rooming		
Туре	Contacts	Article No.
Ready-to-close signal RTC	1 CO standard	3VW9011-0AH01
	1 CO digital	3VW9011-0AH02
Auxiliary switch ON/OFF AUX	4 CO standard	3VW9011-0AG01
	4 CO digital	3VW9011-0AG02
	2 CO standard + 2 CO digital	3VW9011-0AG03
External auxiliary switch ON/OFF AUX	15 CO standard	3VW9011-0AG05
	15 CO digital	3VW9011-0AG06
Tripped signaling switch S24	1 CO standard	3VW9011-0AH14
	1 CO digital	3VW9011-0AH15
External auxiliary switch ON/OFF AUX	1 CO standard	3VW9011-0AH10
	1 CO digital	3VW9011-0AH08
Position signaling switch PSS	2 CO 2 CO 2 CO	3VW9011-0AH11
(for withdrawable devices)	(connected test disconnected position) standard	
	2 CO 2 CO 2 CO	3VW9011-0AH12
	(connected test disconnected position) digital	

Auxiliary releases, closing coils

Fixing for externa	l auxiliary switches AUX 15 CO	
964	Version	Article No.
	For fixed-mounted circuit breakers with rear panel or floor mounting (in combination with Z option S56 or S57)	3VW9011-0AG15
	For guide frames	3VW9011-0AG17
Undervoltage rele	eases UVR	
	Voltage	Article No.
	24 V AC/DC	3VW9011-0AE01
	30 V AC/DC	3VW9011-0AE02
(D)	48 V AC/DC	3VW9011-0AE03
jar.	60 V AC/DC	3VW9011-0AE04
	110 120 V AC/DC	3VW9011-0AE05
	120 127 V AC/DC	3VW9011-0AE06
	220 240 V AC/DC	3VW9011-0AE07
	240 250 V AC/DC	3VW9011-0AE08
	380 400 V AC	3VW9011-0AE17
	415 440 V AC	3VW9011-0AE18
External time-del	ay device for undervoltage release	
	Voltage	Article No.
	24 30 V AC/DC	3VW9011-0AE10
	48 V AC/DC	3VW9011-0AE11
1	60 V AC/DC	3VW9011-0AE15
	110 127 V AC/DC	3VW9011-0AE12
	220 250 V AC/DC	3VW9011-0AE13

Interlocking

Locking devices				
	Description	Туре	Version	Article No.
	To prevent movement of withdrawable circuit breaker	Cylinder lock (replacement for R78)	Made by Ronis	3VW9011-0BA80
		For no more than 3 padlocks, 8 mm (replacement for R65)		3VW9011-0BA87
Locking mechanisms				
	Description			Article No.
	To prevent movement of the wi	thdrawable circuit breaker in disconnected po	osition (replacement for R79)	3VW9011-0BA84
Locking devices				
n				
n	Description	Version		Article No.
D ₁	To prevent unauthorized	Version Cylinder lock, made by Ronis (replacement to	for S08)	Article No. 3VW9011-0BA33
	To prevent unauthorized activation in the operator			
0,	To prevent unauthorized	Cylinder lock, made by Ronis (replacement	(replacement for S22)	3VW9011-0BA33
	To prevent unauthorized activation in the operator	Cylinder lock, made by Ronis (replacement For no more than 3 padlocks, plastic 4 mm	(replacement for S22) eplacement for S23)	3VW9011-0BA33 3VW9011-0BA41
Padlockable protective	To prevent unauthorized activation in the operator	Cylinder lock, made by Ronis (replacement of For no more than 3 padlocks, plastic 4 mm). For no more than 1 padlock, metal 7 mm (refor no more than 2 padlocks, metal 8 mm (refor no more than 2 padlocks).	(replacement for S22) eplacement for S23)	3VW9011-0BA33 3VW9011-0BA41 3VW9011-0BA42
Padlockable protective	To prevent unauthorized activation in the operator panel (safe OFF)	Cylinder lock, made by Ronis (replacement of For no more than 3 padlocks, plastic 4 mm). For no more than 1 padlock, metal 7 mm (refor no more than 2 padlocks, metal 8 mm (refor no more than 2 padlocks).	(replacement for S22) eplacement for S23)	3VW9011-0BA33 3VW9011-0BA41 3VW9011-0BA42
Padlockable protective	To prevent unauthorized activation in the operator panel (safe OFF) cover ON/OFF on the operato	Cylinder lock, made by Ronis (replacement of For no more than 3 padlocks, plastic 4 mm For no more than 1 padlock, metal 7 mm (refor no more than 2 padlocks, metal 8 mm ((replacement for S22) eplacement for S23) replacement for S07)	3VW9011-0BA33 3VW9011-0BA41 3VW9011-0BA42 3VW9011-0BA44
Padlockable protective	To prevent unauthorized activation in the operator panel (safe OFF) cover ON/OFF on the operato Description	Cylinder lock, made by Ronis (replacement of For no more than 3 padlocks, plastic 4 mm For no more than 1 padlock, metal 7 mm (refor no more than 2 padlocks, metal 8 mm (refor no more than 2 padlocks).	(replacement for S22) eplacement for S23) replacement for S07) (replacement for S42)	3VW9011-0BA33 3VW9011-0BA41 3VW9011-0BA42 3VW9011-0BA44 Article No.

Accessories and spare parts

Interlocking

Protective cover for r	nechanical ON/OFF				
	Description	•		Article No.	
	For mechanical ON/OFF			3VW9011-0BA21	
Mutual mechanical in	nterlockings				
E	 Mutual mechanical interlo 				
	Fixing	Mounting	Article No.		
E-10	Fixed-mounted	Rear panel or floor mounting		3VW9011-0BB21	
	Withdrawable	Mounting onto guide frame		3VW9011-0BB22	
Bowden cable, separa					
	One required for each circ	uit breaker			
	Variant			Article No.	
	1000 mm			3VW9011-0BB23	
	2000 mm			3WL9111-0BB45-0AA0	
	3000 mm			3WL9111-0BB46-0AA0	
Locking mechanism f	for control cabinet door				
	 To prevent opening of the cabinet door in ON position It additionally prevents the circuit breaker from being closed when the control cabinet door is open 				
5	Fixing		Version	Article No.	
<u> </u>	Fixed mounting onto side pa	nel or floor	Direct fixed interlocking	3VW9011-0BB10	
9			Locking with Bowden cable	3VW9011-0BB16	
	Withdrawable		Direct fixed interlocking	3VW9011-0BB14	
To.			Locking with Bowden cable	3VW9011-0BB18	
Door sealing frame IF	230			_	
	Can be used up to IP3x deplay	gree of protection			
	Version			Article No.	
	For fixed-mounted breakers			3VW9011-0AP01	
	For withdrawable breakers			3VW9011-0AP02	
Protective cover IP54					
	 Lockable for fixed-mounted and withdrawable breakers For implementing degrees of protection IP4x and IP54 when installing in switchboard doors Cannot be combined with IP30 door sealing frame and door mounted rotary operator 				
	Version			Article No.	
	Lock with unique key			3VW9011-0AP03	
	Lock with standard key			3VW9011-0AP13	

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System overview 3WL11-3WL13

IEC AC 630 – 6300 A, IEC DC ..

For a complete and verified configuration of your molded-case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

Basic units



Sizes 1 to 3

ETU













Accessories





Rating plugs







LSIN, LSING LSIN, LSING

cation modules

Remote reset magnets

Breaker status sensors (BSS)

Ground-fault modules

Connection



Fixed-mounted. withdrawable versions



Main connection vertical. horizontal, front, flange

Accessories



Auxiliary conductor plug-in system

Operating mechanisms and auxiliary releases





Motorized operating mechanisms

Auxiliary releases

Accessories



Closing coils

Auxiliary switches







Signaling switches

Accessories



Position signaling switches

Further accessories





Position signaling switches









Door sealing frames

Shutters

EMERGENCY-OFF pushbuttons

Operating cycle counters

Support brackets Grounding connections

Interlocking







Interlocking sets

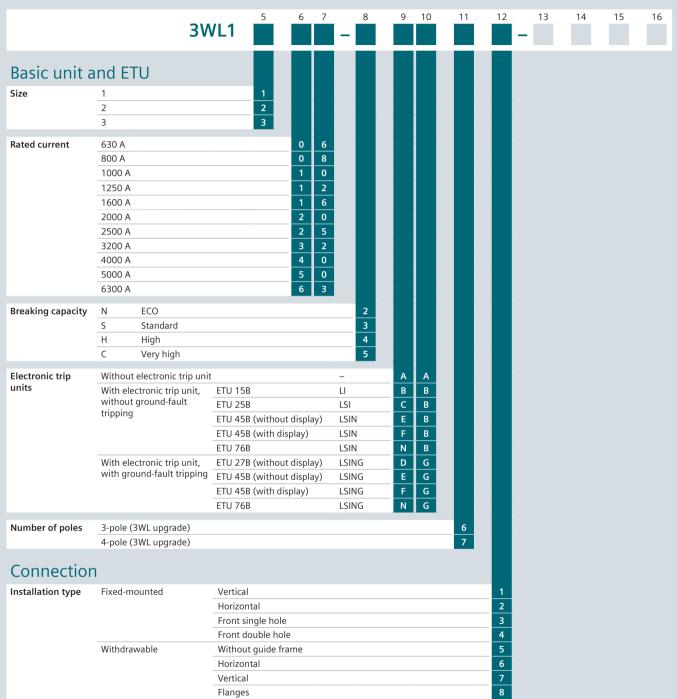
Key operation

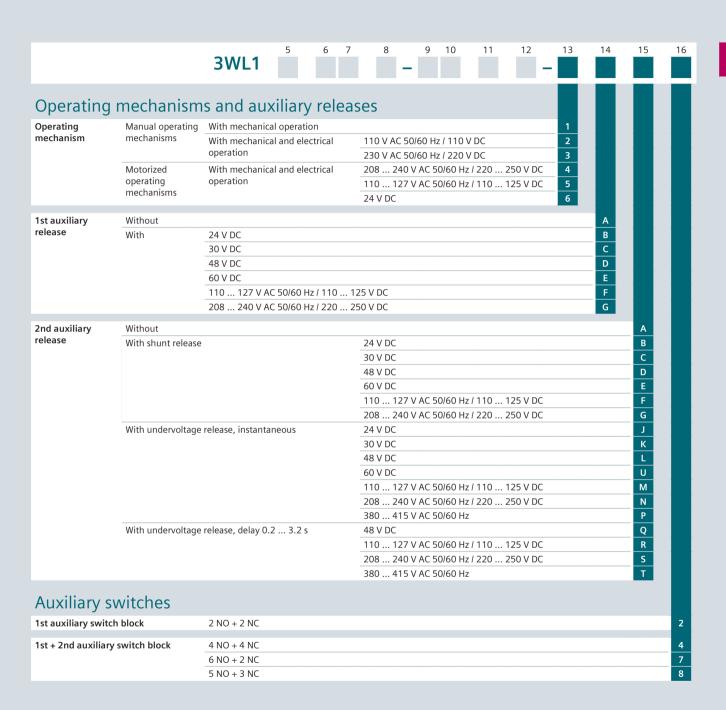
Locking mechanisms

Structure of the article numbers

Basic configuration for AC circuit breakers

For a complete and verified configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator

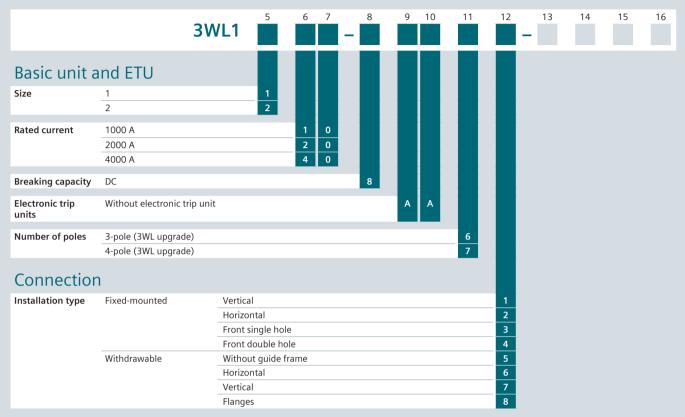


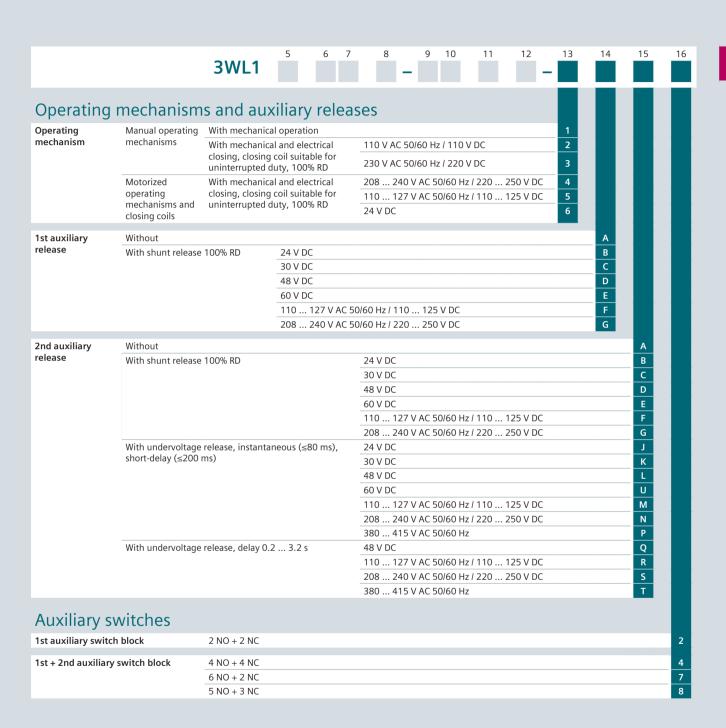


Structure of the article numbers

Basic configuration for DC circuit breakers

For a complete and verified configuration of your air circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3wl-configurator





Online configurator highlights

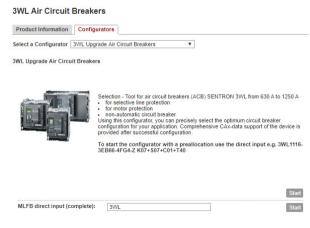
www.siemens.com/lowvoltage/3wl-configurator



Automatic generation of the 3D model, 2D dimension drawing and the internal circuit diagram according to IEC



Direct entry of an already known article number or parts of an article number



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Accessory options

Configure your air circuit breaker easily online at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).			Order code		ode
nfiguration					
Rated voltage 1000 V AC and 690 V IT networks Only for circuit breakers of size 1 - 3 with high breaking capacity H and of size 3 C class. Cannot be combined with rated voltage 1150 V AC, order code "A15".					
Size 1 1)	Up to 2000 A		Α	0	5
Size 2 1) 2)	Up to 4000 A		Α	0	5
Size 3 1)	Up to 6300 A		Α	0	5
Rated voltage 1150 V AC Only for circuit breakers with high breaking capacity H (8th digit of the Article No. is a "4"). Cannot be combined with rated voltage 1000 V AC, order code "A05".					
Size 2 1) 2)	Up to 4000 A		Α	1	5
Size 3 1) 3)	Up to 6300 A		Α	1	5
Rated voltage 690 V AC (+ 20%) Only for 3WL11 circuit breakers, size 1, with high breaking capacity H (8th digit of the Article No. is a "4").					
Size 1	Up to 2000 A		Α	1	6
	nfiguration 690 V IT networ high breaking capacity H 150 V AC, order code "A' Size 1 1) Size 2 1) 2) Size 3 1) ng capacity H (8th digit o 1000 V AC, order code "A' Size 2 1) 2) Size 3 1) 3) %) with high breaking capacity	nfiguration 690 V IT networks high breaking capacity H and of size 3 C class. 150 V AC, order code "A15". Size 1 1)	Anfiguration 690 V IT networks high breaking capacity H and of size 3 C class. 150 V AC, order code "A15". Size 1 1) Up to 2000 A Size 2 1) 2) Up to 4000 A Size 3 1) Up to 6300 A Ing capacity H (8th digit of the Article No. is a "4"). 1000 V AC, order code "A05". Size 3 1) 3) Up to 6300 A Which high breaking capacity H (8th digit of the Article No. is a "4").	### A Size 1 10	### Size 1 10

¹⁾ When ordering withdrawable circuit breaker and guide frame separately, specify order code "A05" for withdrawable circuit breaker and guide frame.

²⁾ Not possible for circuit breakers with very high breaking capacity C.

Front connections are tinned as standard.

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s). 3WLZ					ode
Accessories for electronic trip units ETU					
 Rating plugs Only one module is possible per circuit breaker (not in conjunction with electronic trip unit ETU15B). As standard, the electronic trip units are equipped with a rating plug which is equal to the maximum rated circuit breaker current (I_{n max.}). The rated current of the selected rating plug must be less than I_{n max.}. 					
Module	Sizes 1, 2	250 A	В	0	2
Wodale	31203 1, 2	315 A	В	0	3
		400 A	В	0	4
		500 A	В		
				0	5
		630 A	В	0	6
		800 A	В	0	8
	6' 4 9 9	1000 A	В	1	0
	Sizes 1, 2, 3	1250 A	В	1	2
		1600 A	В	1	6
		2000 A	В	2	0
	Sizes 2, 3	2500 A	В	2	5
		3200 A	В	3	2
		4000 A	В	4	0
	Size 3	5000 A	В	5	0
		6300 A	В	6	3
Communication and measure	ment function		F	0	1
PROFIBUS DP communication port 1)	including COM15 and brea	ker status sensor (BSS)	F	0	2
MODBUS RTU communication port 1)	-		F	1	2
PROFINET IO / Modbus TCP including COM35 and breaker status sensor (BSS) communication port 1) new				3	5
Metering function Plus (comm	iunication modules	not included)			
Metering function Plus	With internal voltage tap on the lower main conducting paths			3	6
	With internal voltage tap on the upper main conducting paths			3	7
	For combination with external voltage transformer				8
 EMC filter Common-mode interference suppressor filters (e.g. in converter applications) Insertion loss (asymmetric) in the range 40 kHz to 10 MHz >40 dB. 					
EMC filter				3	1
Overload and short-circuit protection for neutral conductors Only possible with 4-pole circuit breaker with ETU27B to ETU76B					
Internal current transformer for N conductor	Size 1		F	2	3
N Conductor	Size 2		F	2	3
	Size 3		F	2	3
	5,20 5			_	

¹⁾ When ordering withdrawable circuit breaker and guide frame separately, specify order code "F02", "F12" or "F35" only for withdrawable circuit breaker.

Accessory options

Configure your air circuit breaker easily online at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s). Remote resetting Automatic reset of the reclosing lockout Remote reset for displays and reset buttons including automatic reset of the reclosing lockout Remote reset magnets 24 V DC 48 V DC 110 127 V AC 50/60 Hz / 120 25 V DC 208 240 V AC 50/60 Hz / 120 25 V DC 208 240 V AC 50/60 Hz / 120 25 V DC Connection Tinned version of the customer's connections on the guide frame • Only for circuit breakers in withdrawable version with horizontal connection or flange connection. • The normal delivery time increases to 15 work days. Customer's connections "1") Size 1 Size 2 Size 3 Connection technology for main connections (fixed mounting) Top: "horizontal Size 1 Up to 1600 A N 1 Top: vertical Size 1 Up to 2000 A N 2 Bottom: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 1 Up to 2000 A N 2 Top: horizontal Size 2 Up to 3200 A N 2 Top and bottom: " Size 1 Up to 1600 A P 0 Top and bottom: " Size 1 Up to 1600 A P 0 Top and bottom: " Size 1 Up to 1600 A P 0 Top and bottom: " Size 1 Up to 1600 A P 0 Top and bottom: " Size 1 Up to 1600 A P 0 Top and bottom: " Size 1 Up to 1600 A P 0 Top and bottom: " Size 2 Up to 3200 A P 0 Top and bottom: " Size 3 Up to 4000 A P 0 Top and bottom: " Size 1 Up to 1600 A P 0 Top and bottom: " Size 2 Up to 3200 A P 0 Top and bottom: " Size 3 Up to 4000 A P 0 Top and bottom: " Size 1 Up to 4000 A P 0 Top and bottom: " S						
Remote reset for displays and reset buttons including automatic reset of the reclosing lockout Remote reset for displays and reset buttons including automatic reset of the reclosing lockout Remote reset magnets					der c	ode
Automatic reset of the reclosing lockout Remote reset for displays and reset buttons including automatic reset of the reclosing lockout	Pomoto resetting				П	
Remote reset for displays and reset buttons including automatic reset of the reclosing lockout Remote reset magnets	•					1 1
Remote reset magnets	Ÿ			n n	ľ	
A8 V DC				V	١,	0
110 127 V AC 50/60 Hz / 110 125 V DC	Remote reset magnets				<u> </u>	1
Connection Tinned version of the customer's connections on the guide frame Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days. Size 1			50/60 Hz / 110 125 V DC		!	2
Connection Tinned version of the customer's connections on the guide frame Only for circuit breakers in withdrawable version with horizontal connection or flange connection. The normal delivery time increases to 15 work days.						3
• Only for circuit breakers in withdrawable version with horizontal connection or flange connection. • The normal delivery time increases to 15 work days. Customer's connections (1)2) Size 2	Connection					
Size 2 Size 3	Only for circuit breakers in withdrawa	ble version with horizon				
Size 3	Customer's connections 1) 2)	Size 1		A		8
Connection technology for main connections (fixed mounting) Size 1		Size 2		Α	0	8
Top: 0 horizontal Bottom: accessible from front, single hole		Size 3		Α	0	8
Size 2	•.	main connectio	ons (fixed mounting)			
Single hole Size 2			· · · · · · · · · · · · · · · · · · ·			1
Top: vertical Bottom: horizontal Size 1	•		· · · · · · · · · · · · · · · · · · ·			1
Size 2		Size 3 ⁴⁾	Up to 4000 A			1
Size 2 Up to 5000 A N 2			·			0
Size 1	Bottom: norizontal		· · · · · · · · · · · · · · · · · · ·			0
Size 2		Size 3	Up to 5000 A	N	2	0
Size 3	•	Size 1	Up to 2000 A			4
Connection technology for main connections (withdrawable versions) Top and bottom: 5) 6) accessible from front, single hole Size 1 Up to 1600 A P 0 Size 2 Up to 3200 A P 0 Top and bottom: 5) accessible from front, double hole Size 1 Up to 1600 A P 0 Size 2 Up to 3200 A P 0 Top: 5) 6) horizontal Size 1 Up to 4000 A P 0 Top: 5) 6) horizontal Size 1 Up to 1600 A P 0 Bottom: accessible from front, single hole Size 2 Up to 3200 A P 0	Bottom: vertical					4
Top and bottom: 5) 6) accessible from front, single hole Size 1 Up to 1600 A P 0 Size 2 Up to 3200 A P 0 Top and bottom: 5) accessible from front, double hole Size 1 Up to 1600 A P 0 Size 2 Up to 3200 A P 0 Size 3 Up to 3200 A P 0 Top: 5) 6) horizontal Size 1 Up to 1600 A P 0 Top: 5) 6) horizontal Size 1 Up to 1600 A P 0 Bottom: accessible from front, single hole Size 2 Up to 3200 A P 0		Size 3	Up to 5000 A	N	2	4
accessible from front, single hole Size 2 Up to 3200 A P 0 Size 3 Up to 4000 A P 0 Top and bottom: 5) Size 1 Up to 1600 A P 0 accessible from front, double hole Size 2 Up to 3200 A P 0 Size 3 Up to 4000 A P 0 Top: 5) 6) horizontal Size 1 Up to 1600 A P 0 Bottom: accessible from front, single hole Size 2 Up to 3200 A P 0	Connection technology for main connections (withdrawable versions)					
Size 2	•	Size 1	Up to 1600 A		!	0
Top and bottom: 5) Size 1	accessible from front, single hole		·			0
accessible from front, double hole Size 2 Up to 3200 A P 0 Size 3 Up to 4000 A P 0 Top: 516 horizontal Bottom: accessible from front, single hole Size 1 Up to 1600 A P 0 Size 2 Up to 3200 A P 0		Size 3	Up to 4000 A	P	0	0
Size 2		Size 1	Up to 1600 A	Р		1
Top: 5 to horizontal Size 1 Up to 1600 A P 0 Bottom: accessible from front, single hole Size 2 Up to 3200 A P 0	accessible from front, double hole	Size 2	Up to 3200 A			1
Bottom: accessible from front, Size 2 Up to 3200 A P 0		Size 3	Up to 4000 A	Р	0	1
single hole		Size 1	Up to 1600 A	Р	0	7
Single livie		Size 2	Up to 3200 A	Р	0	7
512e 5 Op to 4000 A	single livie	Size 3	Up to 4000 A	Р	0	7

¹⁾ Front connections are tinned as standard.

²⁾ The permissible temperature-rise limits according to IEC 60947-2 are 5 K lower for a tin surface than for a silver surface.

³⁾ Not for 3WL1 size 1 with high breaking capacity H and circuit breakers with very high breaking capacity C.

⁴⁾ Not for size 3 with very high breaking capacity C.

⁵⁾ Not for size 2 and 3 circuit breakers with very high breaking capacity C.

⁶⁾ Not for 3WL1 size 1 with high breaking capacity H

To specify the options, add "-Z" to appropriate order code(s).	the complete Article No. and ind	icate the 3WL		der c	ode
Connection					
Connection technology for	main connections (withdra	awable versions)			
Top: vertical	Size 1	Up to 2000 A	Р	1	8
Bottom: horizontal	Size 2	Up to 3200 A	Р	1	8
	Size 3	Up to 5000 A	Р	1	8
Top: 1) connecting flange	Size 1	Up to 2000 A	Р	1	9
Bottom: horizontal	Size 2	Up to 3200 A	Р	1	9
	Size 3	Up to 4000 A	Р	1	9
Top: horizontal	Size 1	Up to 2000 A	Р	2	3
Bottom: vertical	Size 2	Up to 3200 A	Р	2	3
	Size 3	Up to 5000 A	Р	2	3
Top: 1) horizontal	Size 1	Up to 2000 A	P	2	8
Bottom: connecting flange	Size 2	Up to 3200 A	P	2	8
	Size 3	Up to 4000 A	P	2	8
Connection technology for Connection technology for screwless terminals (tension spring)	auxiliary conductors (for fi Fixed-mounted Withdrawable	ixed-mounted and withdrawable versior	ns) N	6	1
Operating mechanism Motorized operating mechanisms	s and auxiliary release	2 S 24 30 V DC	М	0	1
Motorized operating mechanisms	the Article No. = "1"	48 60 V DC	M	0	3
		110 127 V AC 50/60 Hz / 110 125 V DC	М	0	5
		208 240 V AC 50/60 Hz / 220 250 V DC	М	0	6
Mechanical operating cycles counter, 5	i-digit ²⁾		С	0	1
Closing coils	Suitable for uninterrupted	24 V DC	М	2	1
3	duty, 100% OP	30 V DC	М	2	2
	 Only possible if the 13th digit of the Article No. = "1" 	48 V DC	М	2	3
	of the Article No. = 1	60 V DC	М	2	4
		110 127 V AC 50/60 Hz / 110 125 V DC	М	2	5
		208 240 V AC 50/60 Hz / 220 250 V DC	М	2	6
	 Not suitable for uninterrupted 	24 V DC	М	3	1
	 duty, 5% OP, synchronizable ³⁾ Only possible if the 13th digit 	48 V DC	М	3	3
	of the Article No. = "1"	110 127 V AC 50/60 Hz / 110 125 V DC	М	3	5
		208 240 V AC 50/60 Hz / 220 250 V DC	М	3	6
Opening coils (shunt releases)3)4)	Not suitable for uninterrupted	24 V DC	М	4	1
	duty, 5% OP, synchronizable	48 V DC	М	4	3
		110 127 V AC 50/60 Hz / 110 125 V DC	М	4	5
		208 240 V AC 50/60 Hz / 220 250 V DC	М	4	6

¹⁾ Not for size 2 and 3 circuit breakers with very high breaking capacity C.

Only possible with motorized operating mechanism.
 Overexcited, i.e. switching time 50 ms (standard >80 ms).

⁴⁾ Only possible if the 14th digit of the Article No. for the circuit breaker is "A", i.e. "without 1st auxiliary release".

Accessory options

Configure your air circuit breaker easily online at www.siemens.com/lowvoltage/3wl-configurator

To specify the options, add "-Z" to the appropriate order code(s).	complete Article No. and indicate the		Orc	ler c	ode
appropriate order code(s).		3WLZ			
Auxiliary switches and sig	gnaling switches				
Position signaling switches for guide frames			R	1	5
		d test disconnected position)			
	3 CO 2 CO (connected	d test disconnected position)	R	1	6
Signaling switches	Ready-to-close signaling switches (S20)	1 NO contact	С	2	2
	Spring charged signaling switch 1) (S21)	1 NO contact	С	2	0
	For the first auxiliary release 1) (S22)	1 CO contact	С	2	6
	For the second auxiliary release 1) (S23)	1 CO contact	С	2	7
	1st tripped signaling switch 1) 2) (S24)	1 CO contact	К	0	7
	2nd tripped signaling switch 1) 2) 3) (S25)	1 NO contact	К	0	6
Further accessories Pushbuttons / shutdown switch					
EMERGENCY-OFF pushbuttons	Mushroom pushbutton instead of the mechani OFF pushbutton	cal	S	2	4
Electrical ON button S10 in the	Possible only for circuit breakers with closing co	oil With sealing cap	С	1	1
operator panel 1)		With CES lock	С	1	2
Motor shutdown switch on control panel 4) (S12)		s	2	5
	d transport requirements (moist	•	A	6	1
Cardboard packaging with water-repellent of	coating on corrugated cardboard (moisture pr	rotection)	A	°	
Arc chute covers Not available for 1000 V version (order code "A05"), DC version 4000 A size 2 1150 V version (order code "A15") 130 kA version, size 2 150 kA version, size 3					
Arc chute covers	3-pole, 4-pole		R	1	0
Shutters					
Shutter: 2-part, lockable, with padlocks 1)	3-pole, 4-pole		R	2	1

¹⁾ Not possible with "communications interface" option, order code "F02", "F12" or "F35".

²⁾ Not available for non-automatic air circuit breakers.

Only possible with option "K07".

⁴⁾ Only for breakers with motorized operating mechanism, not possible with order codes "C11", "C12".

To specify the options, add "-Z" to tappropriate order code(s).	he complete Article No. and ind	icate the 3WLZ	Ore	der c	ode
Further accessories					
Transformer (without iron c Used in converter applications with high External 24 V DC supply required Undervoltage release required Comprises: 3 (3-pole) or 4 (4-pole) transformers 24 V DC relay Warning signs Manual		ised with ETU45B or ETU76B			
Transformer	3-pole, 4-pole	Size 2, size 3	К	6	0
Operating manual, printed v	version				
French/Italian			A		1 2
Interlocking Mechanical interlocks Interlocking module with Bowden cable Mutual mechanical interlockings	2 m	For fixed-mounted breakers	S	5	5
J		For withdrawable circuit breakers with guide frame	R	5	5
		For guide frames (ordered separately)	R	5	6
		For withdrawable circuit breakers (ordered separately)	R	5	7
Locking devices (for fixed-m • The disconnector unit fulfills the require					
Locking devices	To prevent unauthorized	Made by CES	S	0	1
	activation in the operator panel	Made by IKON	S	0	3
		Assembly kit FORTRESS or Castell 1)	S	0	5
		Assembly kit for padlocks 2)	S	0	7
		Made by Ronis	S	0	8
		Made by Profalux	S	0	9
Locking devices (for fixed-m	ounted and withdrawable	e versions)			
Locking devices	For operating mechanism handle	with padlock 2)	S	3	3

 $^{^{\}mbox{\scriptsize 1)}}\,$ Locks must be ordered from the manufacturer.

²⁾ Padlock not included in the scope of supply.

Accessory options

Configure your air circuit breaker easily online at www.siemens.com/lowvoltage/3wl-configurator

appropriate order code(s).	the complete Article No. and ind	3WLZ	Ore	der c	ode
Interlocking					
.					l
 The disconnector unit fulfills the require active in the connected position, function. Not possible in combination with order 	ements for main circuit breakers acc. to on is retained when circuit breaker is re	EN 60204-1, consisting of a lock in the guide frame, eplaced.			
Locking devices	To prevent unauthorized	Made by CES	R	6	1
-	activation in the operator panel	Made by Ronis	R	6	8
		Made by Profalux	R	6	0
Locking devices (for withdra Safety lock for mounting onto the circu					
Locking devices	To prevent movement of	Made by CES	S	7	1
	withdrawable circuit breaker	Made by Profalux	S	7	5
		Made by Ronis	S	7	6
Locking mechanisms Not possible in combination with order		A description			
For fixed-mounted circuit breakers For withdrawable circuit breakers	To prevent opening of the cabinet	· · · · · · · · · · · · · · · · · · ·	S R	3	0
or withdrawable circuit breakers	To prevent opening of the cabinet To prevent activation when the ca		R	4	0
	To prevent movement when the co	·	R	5	
disconnected position Consisting of Bowden cable and lock in Not possible in combination with order	the cabinet door	thdrawable circuit breaker in			
Made by CES			R R	8	1 5
Made by Profalux			R	8	1
Made by Ronis Seals				0	
Door sealing frame for degree of protec	tion IP41		Т	4	0
	cuit breaker in combinations for withdrawable circuit breakers 3WI	on with an older guide frame L1 for use in combination with older guide frames supplied			

¹⁾ Not available in combination with R50

²⁾ Not available in combination with R40

³⁾ Combination with R81, R85 and R86 on request

Further technical specifications

Manual operating mechanism		3WL11 – 3WL13
Switching on/charging the stored-energy operating n	nechanism	
Maximum force required to operate the hand lever		≤230 N
Required number of strokes on the hand lever		9
Closing coils		3WL11 – 3WL13
Primary operating range		
Primary operating range		0.85 1.1 × U _s
Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 1.26 × U _s
Rated voltage		
Rated control supply voltage U _s	50/60 Hz AC	110 127 V, 208 240 V
	DC	24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V
Operation		
Power consumption	AC/DC	15 VA/15 W
Min. command duration at U _s for the closing coil		60 ms
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic; manual operating mechanism with mechanical and elect	rical closing	1 A TDz (slow)/1 A
Smallest permissible DIAZED fuse (operational class qL)/	car crossing	6 A TDz (slow)/2 A
automatic circuit breaker with C characteristic;		071.52 (31011),1271
motor and closing coil for the same rated control supply	3 .	
motorized operating mechanism with mechanical and el	ectrical closing	
Smallest permissible DIAZED fuse (operational class gL)/	At $U_s = 24 30 \text{ V}$	6 A
nutomatic circuit breaker with C characteristic for different rated control supply voltages)	At $U_s = 48 60 \text{ V}$	6 A
	At $U_s = 110 125 \text{ V DC}/$	2 A
	110 127 V AC	2 A
	At U _s = 220 250 V DC/ 208 240 V AC	27
Motor		3WL11 – 3WL13
Primary operating range		
Primary operating range		0.85 1.1 × U _s
Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 1.26 × U _s
Operation		
Power consumption of motor	AC/DC	24/30 V DC, 110 W; 48/60 V DC, 120 W; 110 127 V AC/110 125 V DC, 150 W; 200 240 V AC/220 250 V DC, 130 W
Time required to charge the spring energy store at 1 × U.		≤10 s
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic;		6 A TDz (slow)/2 A
motor and closing coil for the same rated control supply		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic	At U _s = 24 30 V	6 A
(for different rated control supply voltages)	At U _s = 48 60 V	6 A
(io. amerene lacea comitor supply fortuges)	At U _s = 110 125 V DC/ 110 127 V AC	2 A
	At U _s = 220 250 V DC/ 208 240 V AC	2 A
Signals of the electronic trip unit		3WL11 – 3WL13
Signals of the electronic trip unit		
Measuring accuracy of the electronic trip unit		Protection functions acc. to EN 60947; current indication ≤10%; metering function for base quantities ≤1%; metering function for derived quantities ≤4%

Accessory options

Further technical specifications

Undervoltage releases UVR (F3) and UVR-t_d (F4)

3WL11 - 3WL13

Primary operating range		
Response values	Pickup	≥0.85 × U _s (circuit breaker can be closed)
	Dropout	$0.35 \dots 0.7 \times U_s$ (circuit breaker is tripped)
Primary operating range		0.85 1.1 × U _s
Extended operating range for battery operation	At 24 V DC, 30 V DC, 48 V DC, 110 V DC, 220 V DC	0.85 1.26 × U _s
Rated voltage		
Rated control supply voltage U _s	Instantaneous 50/60 Hz AC	110 127 V, 208 240 V, 380 415 V
	Instantaneous DC	24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V 1)
	Delayed 50/60 Hz AC	110 127 V, 208 240 V, 380 415 V
	Delayed DC	48 V, 110 125 V, 220 250 V
Operation		
Power consumption (pickup/uninterrupted duty)	AC	20/5 VA
	DC	20/5 W
Opening time of the circuit breaker		
Opening time of the circuit breaker at $U_s = 0$		200 ms
Version UVR (F3)	Instantaneous	73 ms
	With delay	200 ms
Version UVR-t _d (F8)	With delay, $t_d = 0.2$ to 3.2 s	0.2 3.2 s
	Reset through additional NC contact – direct tripping	≤100 ms
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ miniature circuit breaker with C characteristic		1 A TDz (slow)/1 A

Shunt release (ST) (F1, F2)

3WL11 - 3WL13

Primary operating range				
Version		For continuous command (100% OP), locks out on momentary- contact commands	5% OP	With spring energy store consisting of shunt release and capacitor storage device
Response values	Pickup	$>0.7 \times U_s$ (circuit breaker is tripped)	$>0.7 \times U_s$ (circuit breaker is tripped)	-
Primary operating range		0.7 1.1 × U _s	0.7 1.1 × U _s	0.85 1.1 × U _s
Extended operating range for battery operation	At 24 V DC, 48 V DC 60 V DC, 110 V DC 220 V DC	0.7 1.26 × U _s	0.7 1.26 × U _s	-
Rated voltage				
Rated control supply voltage U _s	50/60 Hz AC	110 127 V, 208 240 V	110 127 V, 208 240 V	110 V, 230 V
	DC	24 V, 30 V, 48 V, 60 V, 110 125 V, 220 250 V	24 V, 48 V, 110 125 V, 220 250 V	110 V, 220 V
Operation				
Power consumption	AC/DC	15 VA/15 W	15 VA/15 W	1 VA/1 W
Min. command duration at U _s		60 ms	25 ms	-
Storage time at Us/ _s / Recharging time at U _s		-	-	max. 5 min/ min. 5 s
Opening time of the circuit breaker				
Opening time of the circuit breaker at $U_s = 100\%$	At AC/DC	80 ms	50 ms	80 ms
Short-circuit protection				
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		1 A TDz (slow)/1 A	1 A TDz (slow)/1 A	1 A TDz (slow)/1 A

 $^{^{1)}~24~}V~and~30~V~only~with~undervoltage~release~UVR~(F3)$

Remote reset magnet for mechanical tripped indicator (F7) 3WL11 – 3WL13

Primary operating range		
Primary operating range		0.85 1.1 × U _s
Extended operating range for battery operation	At 24 V DC, 48 V DC 110 V DC 220 V DC	0.7 1.26 × U _s
Operation		
Power consumption	AC/DC	50 VA/50 W
Min. command duration at U _s for the remote reset magne	t	60 ms
Short-circuit protection		
Smallest permissible DIAZED fuse (operational class gL)/ automatic circuit breaker with C characteristic		2 A TDz (slow)/1 A at 24 V DC and 48 V DC, 1 A TDz (slow)/1 A at 110 V and 208 250 V

Contact position-driven auxiliary switches (S1, S2, S3, S4, S7, S8) 3WL11 – 3WL13

-					
Rated voltage					
Rated insulation voltage U _i	AC/DC	500 V			
Rated operational voltage U _e	AC/DC	500 V			
Rated impulse withstand voltage U _{imp}		4 kV			
Contact reliability		From 1 mA at 5 V DC			
Breaking capacity					
Alternating current 50/60 Hz	Rated operational voltage U _e	24 230	V	380 V, 400) V
	Rated operational current I _e /AC-12	10 A		10 A	
	Rated operational current I _e /AC-15	4 A		3 A	
Direct current	Rated operational voltage U _e	24 V	48 V	110 V	220 V
	Rated operational current I _e /DC-12	10 A	8 A	3.5 A	1 A
	Rated operational current I _e /DC-13	8 A	4 A	1.2 A	0.4 A
Short-circuit protection					
Largest permissible DIAZED fuse (operational class	gL)	10 A TDz,	10 A Dz		
Largest permissible miniature circuit breaker with	C characteristic	10 A			

Ready-to-close signaling switches (S20) (acc. to DIN VDE 0630) 3WL11 – 3WL13

Breaking capacity			
Alternating current 50/60 Hz	Rated operational voltage U _e	250 V	
	Rated operational current I _e	8 A	
Direct current	Rated operational voltage U _e	125 V	250 V
	Rated operational current I _e	0.4 A	0.2 A
	Contact reliability	From 1 mA at 5 V DC	
Short-circuit protection			
Largest permissible DIAZED fuse (operational class gL)		2 A Dz (quick)	

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Accessory options

Further technical specifications

Tripped signaling switches (S24) and signaling switches for auxiliary releases (S22, S23) (acc. to DIN VDE 0630)

3WL11 - 3WL13

Breaking capacity				
Alternating current 50/60 Hz	Rated operational voltage U _e	250 V		
	Rated operational current I _e /AC-12	8 A		
Direct current	Rated operational voltage U _e	24 V	125 V	250 V
	Rated operational current I _e /DC-12	6 A	0.4 A	0.2 A
	Contact reliability	From 1 mA at	t 5 V DC	
Short-circuit protection				
Largest permissible DIAZED fuse (operational class gL)		6 A Dz (quick)	
Tripped signaling switches				
Signal duration after tripping		Until manual	or electrical remote	reset (option)

Position signaling switches on guide frame

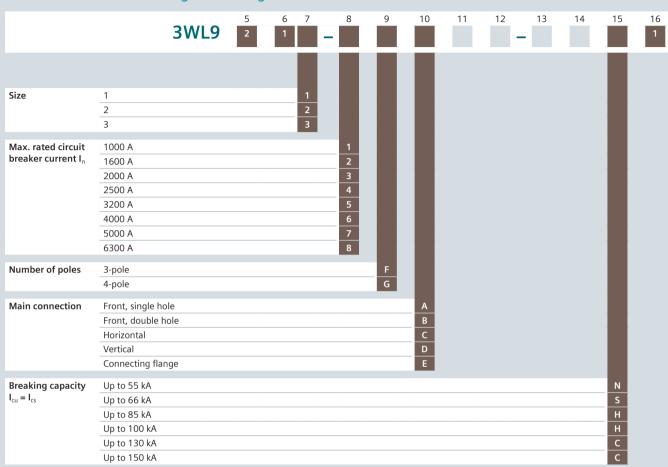
3WL11 - 3WL13

Type of contacts					
Message	"Circuit breaker in connected position"	3 CO	or	1 CO	
	"Circuit breaker in test position"	2 CO	or	1 CO	
	"Circuit breaker in disconnected position"	1 CO	or	1 CO	
Contact reliability (valid from April 1, 2020)		From 1 mA a	t 5 V DC		
Rated voltage					
Rated insulation voltage U _i	50/60 Hz AC	440 V			
	DC	250 V			
Rated operational voltage U _e		250 V			
Rated impulse withstand voltage U _{imp}		4 kV			
Breaking capacity					
Rated operational current I _e	I _e /AC-12	24 V 10 A, 1 320/440 V 1	10/127 V 10 A, 220 D A	0/240 V 10 A,	
	I _e /AC-15	220/240 V 4 A, 320/440 V 3 A			
	I _e /DC-12	24 V 10 A, 4	8 V 2.5 A, 220/240	V 0.2 A	
	I _e /DC-13	24 V 3.0 A, 2	20/240 V 0.1 A		
	A 300 (AC)	120 V 6 A, 2	40 V 3 A		
	R 300 (DC)	125 V 0.22 A, 250 V 0.11 A			
Short-circuit protection					
Largest permissible DIAZED fuse (operational class of	gL)	8 A TDz (slov	v)		
Largest permissible automatic circuit breaker with C	Ccharacteristic	8 A TDz (slov	v)		

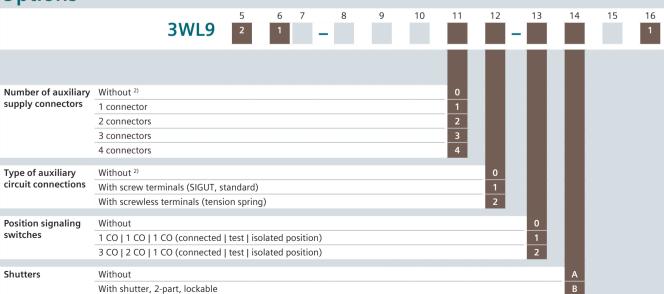
Guide frames

To configure your guide frame, please use the new functionality in our configurator at

www.siemens.com/lowvoltage/3wl-configurator



Options



Accessories for electronic trip units ETU

Protective devices with device holder and optional metering function



• For replacement in existing circuit breakers, please specify the circuit breaker ID No. when ordering.

	Туре	With protection function	Metering function	Article No.
	ETU15B	Ц	Without	3WL9311-5AA00-0AA2
	ETU25B	LSI	Without	3WL9312-5AA00-0AA2
	ETU27B	LSING	Without	3WL9312-7AA00-0AA2
_	ETU45B (without display)	LSIN(G)	Without	3WL9314-5AA00-0AA2
			With metering function Plus new	3WL9314-5AA30-0AA2
	ETU76B	LSIN(G)	Without	3WL9317-6AA00-0AA2
			With metering function Plus new	3WL9317-6AA30-0AA2

Rating plugs



• With the rating plug selected, the maximum rated current $I_{n \text{ max}}$ of the circuit breaker must not be exceeded. The following applies: $I_n \leq I_{n \text{ max}}$.

Size	Rated current I _n	Article No.
1, 2	250 A	3WL9111-0AA51-0AA0
	315 A	3WL9111-0AA52-0AA0
	400 A	3WL9111-0AA53-0AA0
	500 A	3WL9111-0AA54-0AA0
	630 A	3WL9111-0AA55-0AA0
	800 A	3WL9111-0AA56-0AA0
	1000 A	3WL9111-0AA57-0AA0
1, 2, 3	1250 A	3WL9111-0AA58-0AA0
	1600 A	3WL9111-0AA61-0AA0
	2000 A	3WL9111-0AA62-0AA0
2, 3	2500 A	3WL9111-0AA63-0AA0
	3200 A	3WL9111-0AA64-0AA0
	4000 A	3WL9111-0AA65-0AA0
3	5000 A	3WL9111-0AA66-0AA0
	6300 A	3WL9111-0AA67-0AA0

Ground-fault modules



- Alarm and tripping
- For direct measurement of the ground-fault current, e.g. in the star point of the transformer, a 1200 A/1 A current transformer, class 1, is required. The internal load of the 3WL circuit breaker is 0.11 m. If the ground-fault current is to be determined using the vectorial sum of the phases, a transformer must be installed in the neutral conductor.

Туре	Accessory for	Article No.
GFM AT 45B	ETU45B	3WL9111-0AT53-0AA0
GFM AT 55B-76B	ETU76B	3WL9111-0AT56-0AA0

Display



Accessory for Version Article No.

Internal current transformers, for N conductor including wiring kit

ETU45B

ETU Release 2	Size	Article No.
-	1	3WL9111-0AA11-0AA0
	2	3WL9111-0AA12-0AA0
	3	3WL9111-0AA13-0AA0
✓	1	3WL9111-0AA14-0AA0
	2	3WL9111-0AA15-0AA0
	3	3WL9111-0AA16-0AA0

External current transformers for N conductor





r	rmers for N conductor			
	Copper connection pieces	Size	Article No.	
	-	1	3WL9111-0AA21-0AA0	
		2	3WL9111-0AA22-0AA0	
		3	3WL9111-0AA23-0AA0	
	✓	1	3WL9111-0AA31-0AA0	
		2	3WL9111-0AA32-0AA0	
		3	3WL9111-0AA33-0AA0	

3WL9111-0AT81-0AA0

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Accessories for electronic trip units ETU

EMC filter				
		ppressor filters (e.g. in IT networks he range 40 kHz to 10 MHz >40 dB		
	Versions			Article No.
	Only for ETU Release 2			3WL9111-0AK34-0AA0
Sealable and lockal	ble covers			
□> • •	Accessory for			Article No.
89	ETU15B to ETU45B			3WL9111-0AT45-0AA0
E 1 0	ETU76			3WL9111-0AT46-0AA0
Automatic reset of	the reclosing lockout			
	Version			Article No.
	Spare part for option K01			3WL9111-0AK21-0AA0
Remote reset magr	nets			
F7	 For mechanical tripped indicate Spare part for options K10 to K Note: Automatic reset of the reclose 		D is also required	
	Voltage			Article No.
ISE0_00999a	24 V DC			3WL9111-0AK03-0AA0
	48 V DC			3WL9111-0AK04-0AA0
	120 V AC / 125 V DC			3WL9111-0AK05-0AA0
208 250 V AC / 208 250 V DC				3WL9111-0AK06-0AA0
Retrofittable intern	nal wiring			
	Purpose	Male multipoint connector	Accessory for	Article No.
	1	With blade connector for	ETU45B and ETU76B	3WL9111-0AK30-0AA0
	Internal CubicleBUS wiring for connection to terminal X8	retrofitting the communication		
			Not for ETU Release 2	3WL9111-0AK31-0AA0

Locking devices and interlocks

Padlockable protective cover ON / OFF			
3 333	 Consisting of two transparent covers each for sealing or for attaching padlocks (padlocks not included in scope of supply) Cover with 6.35 mm hole (for tool actuation) Lock mount for safety lock for key operation 		
	Version		Article No.
	Without safety lock		3WL9111-0BA21-0AA0
N SEO	Made by CES	Made by CES	
	Made by IKON		3WL9111-0BA24-0AA0
Locking devices agair	nst unauthorized closing, in the operato	or panels	
	The disconnector unit fulfills the rSpare part for options S01 to S09	requirements for main circuit breakers acc. to EN 60204-1	
	Variant	Scope of supply	Article No.
	Assembly kit FORTRESS or Castell	Without locks, cylinders or keys	3WL9111-0BA31-0AA0
	Made by Ronis	Locks, cylinders and keys included	3WL9111-0BA33-0AA0
T17627-28	Made by KIRK-Key	Without locks, cylinders or keys	3WL9111-0BA34-0AA0
	Made by Profalux	Locks, cylinders and keys included	3WL9111-0BA35-0AA0
	Made by CES	Locks, cylinders and keys included	3WL9111-0BA36-0AA0
	Made by IKON	Locks, cylinders and keys included	3WL9111-0BA38-0AA0
	Assembly kit for padlocks	Without padlock	3WL9111-0BA41-0AA0

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Locking devices and interlocks

Locking devices against unauthorized closing, for withdrawable circuit breakers



- The disconnector unit fulfills the requirements for main circuit breakers acc. to EN 60204-1
- Consisting of lock in the guide frame, active in connected position, function is retained when circuit breaker is replaced
- Spare part for option R60, R61, R68

Variant	Scope of supply	Article No.
Made by CES	Locks, cylinders and keys included	3WL9111-0BA51-0AA0
Made by IKON	Locks, cylinders and keys included	3WL9111-0BA53-0AA0
Made by KIRK-Key 1)	Without locks, cylinders or keys	3WL9111-0BA57-0AA0
Made by Ronis	Locks, cylinders and keys included	3WL9111-0BA58-0AA0
Made by Profalux	Locks, cylinders and keys included	3WL9111-0BA50-0AA0

Locking devices for operating mechanism handle with padlock



Version	Scope of supply	Article No.
Spare part for S33	Without padlock	3WL9111-0BA71-0AA0

Locking device against movement of the withdrawable circuit breaker



- Safety lock for mounting onto the circuit breaker
- Spare part for option S71, S75, S76

Variant	Scope of supply	Article No.
Made by CES	Locks, cylinders and keys included	3WL9111-0BA73-0AA0
Made by IKON	Locks, cylinders and keys included	3WL9111-0BA75-0AA0
Made by Profalux	Locks, cylinders and keys included	3WL9111-0BA76-0AA0
Made by Ronis	Locks, cylinders and keys included	3WL9111-0BA77-0AA0
Made by KIRK-Key 1)	Without locks, cylinders or keys	3WL9111-0BA80-0AA0

Interlocking systems

- 2 of the same keys for 3 circuit breakers
- Locking device in OFF position
- Lock in the operator panel
- A maximum of 2 circuit breakers can be switched on

Variant	Article No.
Made by CES	3WI 9111-0BA43-0AA0

Locking devices to prevent movement of the withdrawable circuit breakers in disconnected position



- Consisting of Bowden cable and lock in the cabinet door on the circuit breaker
- Spare part for option R81, R85, R86
- Note:
 - Not possible in combination with "Locking mechanism to prevent opening of the cabinet door" (order code "R30") or "Locking mechanism to prevent movement with the cabinet door open" (order code "R50").).

Variant	Article No.
Made by CES	3WL9111-0BA81-0AA0
Made by IKON	3WL9111-0BA83-0AA0
Made by Profalux	3WL9111-0BA85-0AA0
Made by Ronis	3WL9111-0BA86-0AA0

Locking devices to prevent opening of the cabinet door in ON position



- · Fixed-mounted
- Defeatable
- Note:
 - Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86").

Version	Article No.
Spare part for option S30	3WL9111-0BB12-0AA0

¹⁾ Locks, cylinders and keys must be ordered from the manufacturer.

Locking devices and interlocks

Locking devices to prevent opening of the cabinet door Guide frames Defeatable Note: Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86"). Article No. Spare part for option R30 3WL9111-0BB13-0AA0 Locking devices to prevent movement with the cabinet door open · Guide frames · Note: Not possible in combination with "Locking mechanism to prevent movement of the withdrawable circuit breakers in disconnected position" (order codes "R81", "R85" or "R86"). Version Article No. Spare part for option R50 3WL9111-0BB15-0AA0 Mutual mechanical interlockings • With Bowden cable 2000 mm (one required for each circuit breaker) Type When ordered separately Spare part for Article No. Option S55 3WL9111-0BB21-0AA0 Fixed-mounted circuit breaker Module for withdrawable circuit Option R55 3WL9111-0BB24-0AA0 breakers with guide frame Option R56 3WL9111-0BB22-0AA0 Module for guide frame Module for withdrawable circuit Option R57 3WL9111-0BB23-0AA0 breaker Adapter for size 3 withdrawable 3WL9111-0BB30-0AA0 circuit breaker Couplings on the circuit breaker (with ring) for mutual interlocking Can be used in all circuit breakers Article No. 3WL9112-8AH47-0AA0 Bowden cables

Length	Article No.
2000 mm	3WL9111-0BB45-0AA0
3000 mm	3WL9111-0BB46-0AA0
4500 mm	3WL9111-0BB47-0AA0

Test devices

Manual tester, Release 2	for electronic trip units ETU15B to ETU76B	
- one	For testing the electronic trip unit functions of all 3WL ETUs (Release 1 and Release 2)	
		Article No.
of the last		3WL9111-0AT32-0AA0
Function test device		
	• For testing the tripping characteristics for electronic trip units ETU15B to ETU76B (Release 1 and Release 2)	
		Article No.
		3WL9111-0AT44-0AA0
TD400 Kit IEC		
	Commissioning /Service Tool for IEC 3WL (ETU Release 2) and 3VA With adapter, cable and case	
		Article No.
		3VW9011-0AT40
TD400 adapter (spare par	rt)	
	Version	Article No.
	for 3VA	3VW9011-0AT43
	for 3WL ETU Release 1	3VW9011-0AT44
	for 3WL ETU Release 2	3VW9011-0AT45

Indicators and control elements

Ready-to-close signaling switches (S20)



Version	Contacts	Article No.
Spare part for option C22	1 NO contact	3WL9111-0AH01-0AA0

Signaling switch (S22 or S23)



- Not possible with communication port, order code "F02", "F12" or "F35"
- Auxiliary supply connection X7 required for circuit breakers or guide frames.
 If this is not already available, please order additionally

Version Contacts Article No.

Spare part for options C26 to C27 1st or 2nd auxiliary release

1st tripped signaling switch (S24)

- Not possible with communication port, order code "F02", "F12" or "F35"
- Auxiliary supply connection X7 required for circuit breakers or guide frames.
 If this is not already available, please order additionally

if this is not already available, please order additionally

VersionContactsArticle No.Spare part for option K071 CO contact3WL9111-0AH14-0AA0

2nd tripped signaling switch (S25)

- Not possible with communication port, order code "F02", "F12" or "F35"
- Auxiliary supply connection X7 required for circuit breakers or guide frames.
 If this is not already available, please order additionally
- Can only be used in combination with 1st tripped signaling switch

VersionContactsArticle No.Spare part for option K061 NO contact3WL9111-0AH17-0AA0

Operating cycle counters



• Only in conjunction with motorized operating mechanism.

VersionVersionArticle No.Spare part for option C01Mechanical3WL9111-0AH07-0AA0

Spring charged signaling switch

- Not possible with communication port, order code "F02", "F12" or "F35".
- Auxiliary supply connection X7 required for circuit breakers or guide frames.
 If this is not already available, please order additionally

VersionContactsArticle No.Spare part for option C201 NO contact3WL9111-0AH08-0AA0

Position signaling switches for guide frames



 Version
 Contacts
 Article No.

 Spare part for options R15 to R16
 1st block (3 CO contacts)
 3WL9111-0AH11-0AA0

 2nd block (6 CO contacts)
 3WL9111-0AH12-0AA0

Electrical ON button (S10) for operator panel



- Not possible with communication port, order code "F02", "F12" or "F35"
- Not possible with motor shutdown switch
- Button + wiring (Auxiliary supply connection X7 required for circuit breakers or guide frames.
 If this is not already available, please order additionally)
- Note:
- Possible only for circuit breakers with closing coil.

,	<u> </u>	
Version	Variant	Article No.
Spare part for options C11 to C12	With sealing cap C11	3WL9111-0AJ02-0AA0
	With CES assembly kit C12	3WL9111-0AJ03-0AA0
	With IKON assembly kit	3WL9111-0AJ05-0AA0

3WL9111-0AH02-0AA0

Indicators and control elements

Motor cutout switch (S12)				
	Mounting onto operator panel Not possible with electrical ON button			
	Version	Article No.		
	Spare part for option S25	3WL9111-0AJ06-0AA0		
EMERGENCY OFF pushbu	ittons			
ATT.	Mushroom pushbutton instead of the mechanical OFF pushbutton			
ages F.	Variant	Article No.		
NSEO_00985	Spare part for option S24	3WL9111-0BA72-0AA0		

Auxiliary conductor connections

Male connectors for circ	cuit breakers ①	
		Article No.
		3WL9111-0AB01-0AA0
8 8 8 8 8		
Extension for male conf	nector	
	Male connector must be ordered separately	
	Version	Article No.
	1000 V	3WL9111-0AB02-0AA0
Male connectors and ex	ctension	
	Version	Article No.
	1000 V	3WL9111-0AB10-0AA0
Auxiliary supply connec	ction for circuit breakers or guide frames 2	
	Version	Article No.
	Screw connection (SIGUT)	3WL9111-0AB03-0AA0
4 W.		
	Screwless connection technology (tension spring)	3WL9111-0AB04-0AA0
Constant III		
Coding kits 3		
	Version	Article No.
	For fixed-mounted X5 to X8	3WL9111-0AB07-0AA0
Sliding contact modules	s for guide frames 4	
		Article No.
		3WL9111-0AB08-0AA0
One-part sliding contact	t modules for guide frames	
	Version	Article No.
	Screw terminals (SIGUT)	3WL9111-0AB18-0AA0
٣٠١/		
Blanking blocks for circu	uit breakers	
		Article No.
		3WL9111-0AB12-0AA0

Auxiliary releases

Adamaty Follows				
Closing coils / shunt r	releases			
	Version	Voltage	Article No.	
	100% OP	24 V DC	3WL9111-0AD01-0AA0	
		30 V DC	3WL9111-0AD02-0AA0	
		48 V DC	3WL9111-0AD03-0AA0	
N2E0 01000		60 V DC	3WL9111-0AD04-0AA0	
14-		110 125 V DC/110 127 V AC	3WL9111-0AD05-0AA0	
		220 250 V DC/208 240 V AC	3WL9111-0AD06-0AA0	
	5% OP	24 V DC	3WL9111-0AD11-0AA0	
	Switching time 50 ms	48 V DC	3WL9111-0AD12-0AA0	
	(standard >80 ms).	110 125 V DC/110 127 V AC	3WL9111-0AD13-0AA0	
		220 250 V DC/208 240 V AC	3WL9111-0AD14-0AA0	
Undervoltage release	=			
	Version	Voltage	Article No.	
	Instantaneous	24 V DC	3WL9111-0AE01-0AA0	
		30 V DC	3WL9111-0AE02-0AA0	
NEED, OTOOT		48 V DC	3WL9111-0AE03-0AA0	
U		60 V DC	3WL9111-0AE07-0AA0	
		110 125 V DC/110 127 V AC	3WL9111-0AE04-0AA0	
		220 250 V DC/208 240 V AC	3WL9111-0AE05-0AA0	
		380 415 V AC	3WL9111-0AE06-0AA0	
	Delayed	48 V DC	3WL9111-0AE11-0AA0	
		110 125 V DC/110 127 V AC	3WL9111-0AE12-0AA0	
NEED_01002		220 250 V DC/208 240 V AC	3WL9111-0AE13-0AA0	
u		380 415 V AC	3WL9111-0AE14-0AA0	

Operating mechanism

Motorized operating mechanisms				
	 Auxiliary supply connection X5 required for circuit breakers or guide frames. If this is not already available, please order additionally 			
	Voltage	Article No.		
	24 30 V DC	3WL9111-0AF01-0AA0		
	48 60 V DC	3WL9111-0AF02-0AA0		
PLOS 1	110 125 V DC/110 127 V AC	3WL9111-0AF03-0AA0		
	220 250 V DC/208 240 V AC	3WL9111-0AF04-0AA0		

Auxiliary contacts

Auxiliary switch blocks Contacts Article No. 2 NO contacts + 2 NC contacts 3WL9111-0AG01-0AA0 2 NO contacts 3WL9111-0AG02-0AA0 1 NO contact + 1 NC contact 3WL9111-0AG03-0AA0

3WL9111-0AP08-0AA0

3WL9111-0AP11-0AA0

3WL9111-0AP44-0AA0

3WL9111-0AP12-0AA0

Door sealing frames, hoods, shutters

Door sealing frames Version Article No. Spare part for option T40 3WL9111-0AP01-0AA0 Protective cover IP55 Cannot be used in conjunction with door sealing frames Hood removable and can be opened on both sides Article No. 3WL9111-0AP02-0AA0 Shutters Version Number of Size **Breaking capacity** poles Spare part for option R21 N, S, H 3WL9111-0AP04-0AA0 3-pole 1 2 N, S, H 3WL9111-0AP06-0AA0 3WL9111-0AP43-0AA0 3 H, C 3WL9111-0AP07-0AA0

2

3

N, S, H

N, S, H

C

H, C

4-pole

Arc chute

Arc chute				
000707	Voltage	Size	Breaking capacity	Article No.
	690 V	1	N, S, H	3WL9111-0AS01-0AA0
		2	N, S, H	3WL9111-0AS02-0AA0
<u> </u>			C	3WL9111-0AS10-0AA0
		3	H, C	3WL9111-0AS03-0AA0
	1000 V/1150 V	2	Н, С	3WL9111-0AS05-0AA0
		3	Н, С	3WL9111-0AS06-0AA0
Arc chute covers				
	 Spare part for option R² Not available for 1000 V version (order 1150 V version (order DC version, 4000 A size 2, Circuit breakers with 	er code "A05"), er code "A15")	capacity C.	
	Number of poles	Size		Article No.
	3-pole	1		3WL9111-0AS32-0AA0
		2		3WL9111-0AS36-0AA0
NSE0 01008		3		3WL9111-0AS38-0AA0
1020_01000	4-pole	1		3WL9111-0AS42-0AA0
		2		3WL9111-0AS44-0AA0
		3		3WL9111-0AS46-0AA0

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Coding for withdrawable version

Coding for withdrawable version



By customer, for 36 coding variants	
Size	Article No.
1 and 2	3WL9111-0AR12-0AA0
3	3WL9111-0AR13-0AA0

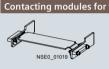
Grounding connections

Grounding connection between the guide frame and the withdrawable circuit breaker



- Order 2× for 30 kA ground short-circuit current
- Contacting modules for guide frame

Size	Article No.
1 and 2 ¹⁾	3WL9111-0BA01-0AA0
3	3WL9111-0BA02-0AA0



withdrawable circuit breakers			
Number of poles	Size	Article No.	
3-pole	1	3WL9111-0BA05-0AA0	
	2 1)	3WL9111-0BA06-0AA0	
	3	3WL9111-0BA07-0AA0	
4-pole	1	3WL9111-0BA08-0AA0	
	2 1)	3WL9111-0BA04-0AA0	
	3	3WL9111-0BA10-0AA0	

¹⁾ Cannot be used for size 2 with very high breaking capacity C and size 2, 4000 A.

Support brackets

Support brackets



- For mounting fixed-mounted circuit breakers on vertical plane
- Only for sizes 1 and 2 (1 set = 2 units)

Article No. 3WL9111-0BB50-0AA0

CubicleBUS modules

- Each CubicleBUS module is supplied with a 0.2 m pre-assembled cable to connect the modules with each other. A longer pre-assembled cable is required for connection to the circuit breaker.
- All communication components, CubicleBUS modules and measurement functions are available for the electronic trip units ETU45B and ETU76B.

aa =			
CubicleBUS modules			
	Туре		Article No.
2 200	Digital output modules with rotary	coding switch, relay outputs	3WL9111-0AT26-0AA0
	Digital output modules, configural	3WL9111-0AT20-0AA0	
	Digital input module		3WL9111-0AT27-0AA0
NSE0_01023a	Analog output module		3WL9111-0AT23-0AA0
	ZSI module		3WL9111-0AT21-0AA0
Preassembled cables for	CubicleBUS modules		
	For connection to 3WL	Length	Article No.
	With COM15/COM16/COM35	0.5 m	3WL9111-0BC04-0AA0
		1 m	3WL9111-0BC02-0AA0
		2 m	3WL9111-0BC03-0AA0
	Without COM15/COM16/COM35	2 m	3WL9111-0BC05-0AA0
Voltage transformers			
	Required for 3WL circuit breake380 690 V/100 V, class 0.5	rs with metering function Plus, if no direct voltage tap is available.	
	Number of poles	Metering function	Article No.
	3-pole	With measurement function Plus	3WL9111-0BB68-0AA0

Retrofitting and spare parts

• For retrofitting the COM15, COM16 or COM35 communication modules in withdrawable 3WL circuit breakers with Z options A05 (1000 V AC), A15 (1150 V AC) or A16 (690 V + 20%), the following additional assembly kits are required: 3WL9111-0AT62-0AA0 for circuit breakers size 1 or 3WL9111-0AT63-0AA0 for circuit breakers size 2/3

COM35 PROFINET IO / M	odbus TCP modules new	
мини	Version	Article No.
TENNET MONEY TO THE TENNEY TO THE TENET MONEY TO THE TENNEY TO THE TENNEY TO THE TENET MONEY TO THE TENET MONEY TO THE TENET MONEY TO THE TENET MONEY TO THE TE	For electronic trip units ETU45B and ETU76B	3WL9111-0AT65-0AA0
PROFINET IO / Modbus To	CP retrofit kits new	
	Retrofit kit for the PROFINET IO / Modbus TCP communication including COM35, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units	
		Article No.
		3WL9111-0AT66-0AA0
PROFIBUS retrofit kits		
	 Retrofit kit for the PROFIBUS communication including COM15, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units 	
		Article No.
		3WL9111-0AT12-0AA0
COM15 PROFIBUS modu	les	
· · · · · · · · · · · · · · · · · · ·	Version	Article No.
	For electronic trip units ETU45B and ETU76B	3WL9111-0AT15-0AA0
COM16 Modbus RTU mo	dules	
	Version	Article No.
	For electronic trip units ETU45B and ETU76B	3WL9111-0AT17-0AA0
Modbus RTU retrofit kits		
	 Retrofit kit for the Modbus communication including COM16, BSS and set of cables for all 3WL air circuit breakers with ETU45B and ETU76B electronic trip units 	
		Article No.
		3WL9111-0AT18-0AA0
Additional parts for retro	ofitting the COM15/COM16/COM35 communication modules	
	 In withdrawable 3WL circuit breakers with Z options: A05 (1000 V AC) or A15 (1150 V AC) or A16 (690 V + 20%) 	
	Size	Article No.
	1	3WL9111-0AT62-0AA0
	2/3	3WL9111-0AT63-0AA0
Breaker status sensors (355)	
	Version	Article No.
	 For acquisition via communication of the circuit breaker states ON / OFF / tripped For electronic trip units ETU45B and ETU76B 	3WL9111-0AT16-0AA0

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Interfaces

Interface to the IEC 61850 new

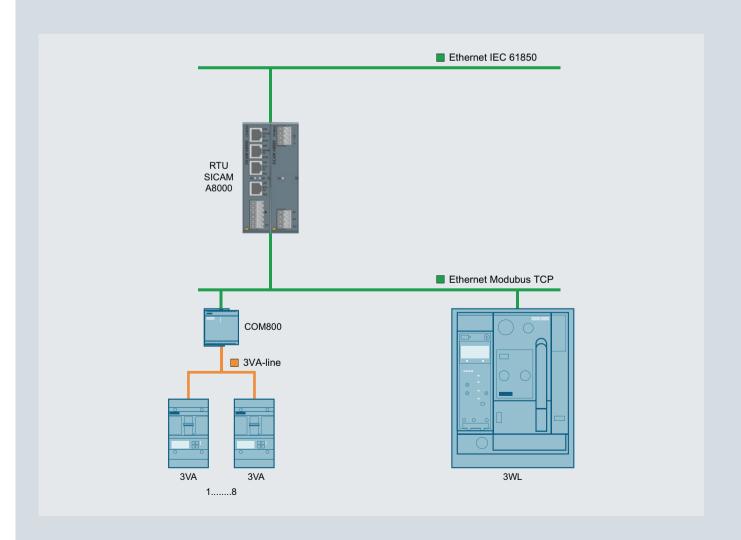
The SICAM A8000 as an intelligent data concentrator ensures the connection of the circuit breakers
from the SENTRON portfolio via the MODBUS TCP/IP protocol and the forwarding of the data via
communication protocols (such as IEC61850,IEC60870-5-104,IEC60870-5-101, MODBUS and DNP) to
higher-level systems.



riigiter level systems.			
Туре	CPU module	Operating voltage	Article No.
SICAM CP-8021 ¹⁾	4 interfaces	-	6MF28021AA00
SICAM PS-8620	-	24 60 V DC (12 W)	6MF28620AA00
SICAM PS-8622	-	110 220 V DC (12 W)	6MF28622AA00

¹⁾ Designed for maximum data volumes of 20 devices each with 50 data points

You will find further information at: www.siemens.com/sicam-a8000



Article No.

Storage devices

Capacitor storage devices

- For shunt releases
- · Storage time 5 min
- Also suitable for 3VL, 3VA and 3WN circuit breakers
- Note:
 - Rated control supply voltage must match the rated control supply voltage of the shunt release

nated control supply voltage	mast mater the rated control supply voltage of the share release.	
Rated control supply voltage/rated operational voltage		Article No.
50/60 Hz AC	DC	
220 240 V	220 250 V	3WL9111-0BA14-0AA0

Retrofitting and spare parts new

Metering function Plus for retrofitting

- As spare part or for retrofitting the metering function Plus with an external voltage transformer
 - For ETU45B or ETU76B Release 2
 - Voltage transformer required
 - Voltage converter included
 - A measuring accuracy of 3% is achieved if retrofitted.
 - Fixing accessories and cable included

		3WL9111-0A105-0AA0
Voltage converter		
	Version	Article No.
	As spare part	3WL9111-0AT06-0AA0

Components for conversion of an existing internal voltage tap 2)

- Conversion requires 3 components for 3-pole 3WL
- Conversion requires 4 components for 4-pole 3WL
- Conversion of a metering function (Z option A05) is not possible.

Conversion of internal voltage tap to main contact	Size	Article No.
From bottom to top	1	3WL9111-0AT71-0AA0
	2	3WL9111-0AT72-0AA0
	3	3WL9111-0AT73-0AA0
From top to bottom	1	3WL9111-0AT74-0AA0
	2	3WL9111-0AT75-0AA0
	3	3WL9111-0AT76-0AA0

Transformers (without iron core), Rogowski coil only (instrument transformer for the protection function)

- Used in converter applications with high harmonic components; can only be used with ETU45B or ETU76B
 - External 24 V DC supply required
 - Undervoltage release required (e.g. 3WL9111-0AE01-0AA0)
- As retrofit kit or as spare part. With new circuit breakers, please use the Z option K60
- Scope of supply:
 - Transformer
 - Warning signs
 - Manual

Number of poles	Size	Article No.
3-pole	1	3WL9111-0AA42-0AA0
	2	3WL9111-0AA43-0AA0
	3	3WL9111-0AA44-0AA0
4-pole	1	3WL9111-0AA45-0AA0
	2	3WL9111-0AA46-0AA0
	3	3WL9111-0AA47-0AA0

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Main conductor connections, fixed-mounted versions (essential accessory)

Front-accessible main c		hole at top	37
0000	Not for 3WL1 s	size 1 with high breaking capacity H	
	Size	Rated current I _n	Article No.
	1	Up to 1000 A	3WL9111-0AL01-0AA0
The same of the sa		1250 1600 A	3WL9111-0AL02-0AA0
NSED 01010	24)	Up to 2000 A	3WL9111-0AL03-0AA0
1020_01010 - 10000		Up to 2500 A	3WL9111-0AL04-0AA0
		Up to 3200 A	3WL9111-0AL05-0AA0
	3	Up to 4000 A	3WL9111-0AL06-0AA0
Front-accessible main c	onnections, single	hole at bottom	
0000	Not for 3WL1 s	size 1 with high breaking capacity H	
• • • • • • • • • • • • • • • • • • • •	Size	Rated current I _n	Article No.
	1	Up to 1000 A	3WL9111-0AL51-0AA0
A STATE OF THE PARTY OF THE PAR		1250 1600 A	3WL9111-0AL52-0AA0
NSE0 01010	24)	Up to 2000 A	3WL9111-0AL53-0AA0
		Up to 2500 A	3WL9111-0AL54-0AA0
		Up to 3200 A	3WL9111-0AL55-0AA0
	3	Up to 4000 A	3WL9111-0AL56-0AA0
Front-accessible main c	onnections accordi	ng to DIN 43673, double hole at top	
9000	Size	Rated current I _n	Article No.
	1	Up to 1000 A 1)	3WL9111-0AL07-0AA0
		1250 2000 A ⁵⁾	3WL9111-0AL08-0AA0
	24)	Up to 2000 A	3WL9111-0AL11-0AA0
NSE0 01011		Up to 2500 A	3WL9111-0AL12-0AA0
1020_01011		Up to 3200 A	3WL9111-0AL13-0AA0
	3	Up to 4000 A	3WL9111-0AL14-0AA0
Front-accessible main c	onnections accordi	ng to DIN 43673, double hole at bottom	
9000	Size	Rated current I _n	Article No.
***************************************	1	Up to 1000 A 1)	3WL9111-0AL57-0AA0
		1250 2000 A ⁵⁾	3WL9111-0AL58-0AA0
	24)	Up to 2000 A	3WL9111-0AL61-0AA0
NSE0 01011		Up to 2500 A	3WL9111-0AL62-0AA0
		Up to 3200 A	3WL9111-0AL63-0AA0
	3	Up to 4000 A	3WL9111-0AL64-0AA0
Rear vertical main conn	ections		
	Size	Rated current I _n	Article No.
	1 2)	Up to 2000 A	3WL9111-0AM01-0AA0
	23)	Up to 3200 A	3WL9111-0AM02-0AA0
	3	Up to 6300 A	3WL9111-0AM03-0AA0
NSE0_01012			

- Nor for 3WL1 size 1 with high breaking capacity H
 In the case of vertical connection size 1 with breaking capacity N and S, up to 1000 A one 3WL9 111-0AM01-0AA0 vertical connection is required, up to 2000 A or with breaking capacity H two 3WL9 111-0AM01-0AA0 vertical connections are required.
 In the case of vertical connection size 2, up to 2500 A one 3WL9 111-0AM02-0AA0 vertical connection is required,
- up to 3200 A two 3WL9 111-0AM02-0AA0 vertical connections are required.
- 4) Not for circuit breakers with very high breaking capacity C.
- $^{5)}$ Can be used for size 1 with H breaking capacity of 630 Å ... 2000 A.

Main conductor connections, withdrawable versions (essential accessory)

, <u> </u>	or bottom 1) 2)		
Size	Rated current I _n		Article No.
1	Up to 1000 A		3WL9111-0AN01-0AA0
	1250 1600 A		3WL9111-0AN02-0AA0
2 ³⁾	Up to 2000 A		3WL9111-0AN03-0AA0
	Up to 2500 A		3WL9111-0AN04-0AA0
	Up to 3200 A		3WL9111-0AN05-0AA0
3	Up to 4000 A		3WL9111-0AN06-0AA0
circuit connections, accordin	g to DIN 43673, double hole at top o	or at bottom 1)	
Size	Rated current I _n		Article No.
1	Up to 1000 A 2)		3WL9111-0AN07-0AA0
	1250 2000 A ⁵⁾		3WL9111-0AN08-0AA0
2 ³⁾	Up to 2000 A		3WL9111-0AN11-0AA0
	Up to 2500 A		3WL9111-0AN12-0AA0
	Up to 3200 A		3WL9111-0AN13-0AA0
3	Up to 4000 A		3WL9111-0AN14-0AA0
d DIN connecting bars			
Number of poles	Size		Article No.
3-pole for 3 bars	1		3WL9111-0AN41-0AA0
'	2		3WL9111-0AN42-0AA0
			3WL9111-0AN43-0AA0
4-pole for 4 bars			3WL9111-0AN44-0AA0
			3WL9111-0AN45-0AA0
			3WL9111-0AN46-0AA0
nections	-		311231111 0711110 071110
	Rated current L	Terminal pieces	Article No.
	·	remma preces	3WL9111-0AN15-0AA0
	· ·		3WL9111-0AN16-0AA0
2			3WL9111-0AN17-0AA0
-			3WL9111-0AN18-0AA0
			3WL9111-0AN21-0AA0
			3WL9111-0AN38-0AA0
3			3WL9111-0AN22-0AA0
3		2 units for 2 pole switches	3WL9111-0AN23-0AA0
	_ ·	· · · · · · · · · · · · · · · · · · ·	
		the state of the s	3WL9111-0AN20-0AA0
Connections	op to 6500 A, bottom	4 units for 4-pole switches	3WL9111-0AN10-0AA0
	Rated current I		Article No.
			3WL9111-0AN32-0AA0
'			3WL9111-0AN33-0AA0
2			3WL9111-0AN34-0AA0
2			
	· · ·		3WL9111-0AN35-0AA0
			3WL9111-0AN36-0AA0
	1600 3200 A ⁴⁾		3WL9111-0AN47-0AA0
3	Up to 5000 A		3WL9111-0AN37-0AA0
Size	Rated current I		Article No.
Size	Rated current I _n		Article No.
Size	Up to 1000 A ²⁾		3WL9111-0AN24-0AA0
1	Up to 1000 A ²⁾ 1250 2000 A ⁵⁾		3WL9111-0AN24-0AA0 3WL9111-0AN25-0AA0
	Up to 1000 A ²⁾ 1250 2000 A ⁵⁾ Up to 2000 A		3WL9111-0AN24-0AA0 3WL9111-0AN25-0AA0 3WL9111-0AN26-0AA0
1	Up to 1000 A ²⁾ 1250 2000 A ⁵⁾		3WL9111-0AN24-0AA0 3WL9111-0AN25-0AA0
	3 n circuit connections, accordin Size 1 2 3) 3 d DIN connecting bars Number of poles	2 3)	Up to 2000 A

- When using front-accessible mains connections (withdrawable circuit breakers) supports are required.
 Not for 3WL1 size 1 with high breaking capacity H
 Not for circuit breakers with very high breaking capacity C.
 Only for circuit breakers with very high breaking capacity C.
 Can be used for size 1 with H breaking capacity of 630 A ... 2000 A.

Conversion kit

Conversion kit for converting fixed-mounted circuit breakers into withdrawable circuit breakers

- Guide frames and sliding contact modules must be ordered separately.
 Conversion from fixed-mounted to withdrawable is not possible for 3WL1 circuit breakers with very

Number of poles	Size	Article No.
3-pole	1	3WL9111-0BC11-0AA0
	2	3WL9111-0BC12-0AA0
	3	3WL9111-0BC13-0AA0
4-pole	1	3WL9111-0BC14-0AA0
	2	3WL9111-0BC15-0AA0
	3	3WL9111-0BC16-0AA0

Main contact elements

Main contact elements 2) 4)



- The circuit breaker ID No. must be specified when ordering 3)
- Specified for each connection
- (depending on the number of poles on the circuit breaker, order 3 or 4 units)
- Article No. is automatically adapted to the circuit breaker ID No.

Size	I _{n max.}	Article No.
1	Up to 2000 A	3WL9111-0AM90 L1Y
2	Up to 2500 A	3WL9111-0AM91 L1Y
	Up to 4000 A	3WL9111-0AM92 L1Y
3	Un to 6300 A	3WI 9111-0AM93 I 1Y

- Not for circuit breakers with very high breaking capacity C.
 Please specify the circuit breaker ID No. in plain text when ordering.
- 4) Replacement of the main contact elements for 3WL1 circuit breakers with very high breaking capacity C is only possible at the factory.

1

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System overview, page 1/38 Siemens LV 10 · 10/2019



3VA molded case circuit breakers are available in various ranges with IEC approval; other ranges at available that comply with standard IEC 60947 and standard UL 489. The system is therefore ideally suited for mechanical engineering companies and switchgear manufacturers. The full range of functionalities of molded case circuit breakers can be used for plant and equipment operating in Europe and North America, with absolute standards compliance assured.

Molded Case Circuit Breakers



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A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about molded case circuit breakers, please visit our website www.siemens.com/3VA



Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

• Technical basic information – 3VA molded case circuit breakers (109766672)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Siemens YouTube channel

Our video range

• 3VA molded case circuit breakers (general) bit.ly/2xNxIFA



Everything you need for your order

Refer to the Industry Mall for an overview of your products

Molded case circuit breakers sie.ag/2mmLcAk

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.



Configurators

Exactly the right circuit breaker for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3VA molded case circuit breaker at

www.siemens.com/lowvoltage/3va-configurator www.siemens.com/lowvoltage/3va27-configurator

For your configured 3VA molded case circuit breaker, you can additionally find

- 3D views
- CAD data
- · Unit wiring diagrams
- · Dimension drawings

... can be found in our online services

Commissioning + operation



Configuration software

powerconfig

The combined commissioning and service tool for communication-capable measuring devices and circuit breakers from the SENTRON family.

www.siemens.com/powerconfig



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions 3VA10 3VA25, 3VA27
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/lowvoltage/cax



■ Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual 3VA selectivity (109743975)
- System manual 3VA communication IEC / UL (98746267)
- Equipment manual 3VA molded case circuit breakers with IEC certificate (90318775)
- Equipment manual 3VA27 molded case circuit breakers & 3WL10 air circuit breakers (109753821)
- Communication manual 3WL10 air circuit breakers & 3VA27 molded case circuit breakers (109760220)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog



Training and tutorials

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- Protection systems in low-voltage power distribution (WT-LVAPS)
- Communication with SENTRON components (LV-COM)



Technical overview of molded case circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on molded case circuit breakers www.siemens.com/lowvoltage/product-support (109767421)

Molded case circuit breakers for all applications



3VA10 ... 3VA15 molded case circuit breakers

Setting standards for standard applications

The 3VA1 molded case circuit breaker is ideally suited for your standard applications in infrastructure and industrial facilities. It is equipped with a thermal-magnetic trip unit, and offers reliable protection for plants and generators.

With its compact dimensions and depth of just 70 mm, the 3VA1 molded case circuit breaker can even fit into locations where space is limited. Thanks to its cover size of 45 mm, it is also ideally suited for use in distribution boards up to 250 A.

Special features

- Compact design
- AC/DC applications
- No derating up to +50 °C
- Optimized for distribution boards (45 mm cover size)
- Universal platform of accessories
- 1, 2, 3 or 4-pole versions



3VA20 ... 3VA25 molded case circuit breakers

The power to deliver in demanding applications

If you are looking for a solution that lets you handle your most technically demanding projects in industrial and infrastructure applications with ease, the 3VA2 molded case circuit breaker has the special capabilities you need. It combines high breaking capacity, a range of electronic trip units (ETUs), very good selectivity properties, and various additional functionalities.

Special features

- Very good selective protection response
- AC applications
- No derating up to +50 °C
- Integrated metering function
- Connection to a communication system
- Performance range from 25 ... 1000 A



3VA27 molded case circuit breaker

Depending on the application, the 3VA27 molded case circuit breaker handles line/motor and starter protection for low-voltage electrical power distribution, and supplements the existing IEC portfolio with a rated current of 1600 A.

Special features

- Choice between two ranges of electronic trip units with a number of equipment versions
- Variable and versatile connections
- Connection to a communication system
- Can be used as a platform circuit breaker with the 3WL10 ACB, with an extensive range of common accessories
- Performance range from 800 ... 1600 A

Basic units and accessories













Protective functions	3VA10	3VA11	3VA12	3VA13	3VA14	3VA15 new
Size	100 A	160 A	250 A	400 A	630 A	1000 A
Switch disconnectors						
No protection	-	-	-			-
Thermal-magnetic						
Line protection		-				
Starter protection	-					
Electronic						
Line protection	-	-	-	-	-	-
Line and generator protection	-	-	-	-	-	-
Line and generator protection, with display	-	-	-	-	-	-
Line and generator protection, with display, with metering function	-	-	-	-	-	-
Motor protection	-	-	-	-	-	-
Motor protection, with display	-	-	-	-	-	-
Motor protection, with display, with metering function	-	-	-	-	-	-
Starter protection	-	-	-	-	-	-

Accessories

Accessories						
Size	100 A	160 A	250 A	400 A	630 A	1000 A
Accessories						
Auxiliary switches and signaling switches						
Auxiliary releases						
Connection technology	•				•	
Plug-in version	-				•	-
Withdrawable	-	-			•	-
Front rotary operating mechanism					•	
Door mounted rotary operator					•	
Side wall mounted rotary operator					•	-
MO310 motor operator (mounted onto the side)	-			-	-	-
MO320 motor operator (mounted onto the front)	-				•	-
Motor operator with SEO520 stored energy operator	-	-	-	-	-	-
Motor operator (MO), integrable	-	-	-	-	-	-
Locking, blocking and interlocking	•		-		•	
Residual current device (mounted onto the side)	-			-	-	-
Residual current device (mounted underneath)	-			-	-	-
Communications interface	-	-	-	-	-	-
EFB300	-	-	-	-	-	-
TD300, TD400 and TD500	-	-	-	-	-	-
Cover frame		-	-			
DIN rail adapter	•		-	-	-	-
Busbar adapter						-

[■] Available

⁻ Not available/not present

^{*} On request



100 A	160 A	250 A	400 A	630 A	1000 A	1600 A
		•			•	•
•						
					-	-
					-	
•	•					
•					-	-
-	-	-	-	-	-	-
•					-	-
•			-	-	-	-
-	_	-	-	_	-	•
•	•		•	•	•	•
-	-	-	-	-	-	-
 •			•		-	-
 •					•	•
		•	•		•	
-		•	•	•	•	•
-		•	•	•	•	•
-	-	-	-	-	-	-
					-	-

3VA1 basic units up to 1000 A

Technical data

					3VA11			3VA11		1	
stics according to IEC 60947-2		3VA10									
Number of poles						1-pole		2-pole			
			100 A			160 A			160 A		
ent I _n at 50 °C ambient temperature		1	6 100	Α	1	6 160	A	1	6 160	A	
ige U _e 50/60 Hz AC			690 V			415 V			415 V		
e U _i			800 V			500 V			500 V		
nd voltage U _{pulse}			8 kV			8 kV			8 kV		
		C	400 Н	lz	C	400 Н	z	C	400 ⊦	łz	
		В	N	S	N	S	М	N	S	M	
circuit breaking capacity I _{cu}											
220 240 V	kA	25	36	55	25	36	55	36	55	85	
380 415 V	kA	16	25	36	5	6	6	25	36	55	
440 V	kA	8	16	25	-	-	-	-	-	-	
500 V	kA	5	5	7	-	-	-	-	-	-	
690 V	kA	5	5	7	-	-	-	-	-	-	
125 V (1 switching pole)	kA	-	-	-	16	25	30	16	25	30	
250 V (2 switching poles)	kA	25	36	55	-	-	-	36	55	85	
500 V (3 switching poles)	kA	25	36	55	-	-	-	-	-	-	
600 V (4 switching poles)	kA	8	16	25	-	-	-	-	-	-	
ort-circuit breaking capacity I _{cs}											
220 240 V	kA	25	36	55	25	35	55	36	55	85	
380 415 V	kA	16	25	36	5	6	6	25	36	55	
440 V	kA	8	16	25	-	-	-	-	-	-	
500 V	kA	5	5	5	-	-	-	-	-	-	
690 V	kA	5	5	5	-	-	-	-	-	-	
125 V (1 switching pole)	kA	-	-	-	16	25	30	16	25	30	
250 V (2 switching poles)	kA	25	36	55	-	-	-	36	55	85	
500 V (3 switching poles)	kA	25	36	55	-	-	-	-	-	-	
600 V (4 switching poles)	kA	8	16	25	-	-	-	-	-	-	
A	mm	76.2 (3P) 101.6 (4P)			25.4				50.8		
В	mm	130			130				130		
С	mm		70		70				70		
D	mm		88			88			88		
	380 415 V 440 V 500 V 690 V 125 V (1 switching pole) 250 V (2 switching poles) 500 V (3 switching poles) 600 V (4 switching poles) ort-circuit breaking capacity I _{cs} 220 240 V 380 415 V 440 V 500 V 690 V 125 V (1 switching pole) 250 V (2 switching poles) 500 V (3 switching poles) 600 V (4 switching poles) 600 V (4 switching poles)	circuit breaking capacity I _{cu} 220 240 V	age U _e 50/60 Hz AC e U _i and voltage U _{pulse} B circuit breaking capacity I _{cu} 220 240 V	### 150 °C ambient temperature	ant I _n at 50 °C ambient temperature 16 100 A 16 100 C 17 100 C 18 100 C 19 100 C 10	201 1, at 50 °C ambient temperature 16 100 A 1 16	ent I _n at 50 °C ambient temperature 16 100 A	ent I, at 50 °C ambient temperature et I, at 50 °C ambient temperature 800 ∨ 415 ∨ 8k∨ 8 kV 8 kV	ent I _n at 50 °C ambient temperature et I ₁ at 50 °C ambient temperature et I ₂ 800 ∨ divoltage U _{puble} 800 ∨ 8	ent I _n at 50 °C ambient temperature 16 100 A	











3VA11			3VA12			3VA13			3VA14				3VA15 new					
3/4-pole					3/4-pole				pole		3/4-pole				3/4-pole			
		16	0 A		250 A			400 A				630 A			1000 A			
		16	160 A		1	60 250	Α	320 400 A					500	. 630 A		630 1000 A		
	690 V					690 V		690 V					69	0 V		690 V		
		80	0 V			800 V			80	0 V			80	0 V		800 V		
		8	kV			8 kV			8	kV			8	kV			8 kV	
		- 1	•			-				•				•			Up to 500 \	/
		0 4	100 Hz		() 400 F	łz		0 4	00 Hz			0 4	100 Hz			0 400 Hz	
	N	S	М	Н	S	M	Н	S	М	Н	С	S	М	Н	С	M	Н	С
	36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	110	200
	25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	85	110
	16	25	36	55	25	36	36	*	*	*	*	*	*	*	*	*	*	*
	7	7	10	10	10	15	15	25	36	55	70	25	36	55	70	36	55	70
	7	7	10	10	7	10	10	7	7	10	10	7	7	10	10	25	35	35
	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	-	-	-
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	-	-	-
	16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-
	36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	110	150
	25	36	55	70	36	55	70	36	55	70	110	36	55	70	110	55	85	110
	16	25	36	40	25	36	36	*	*	*	*	*	*	*	*	*	*	*
	5	5	5	5	10	10	10	25	36	55	70	25	36	55	70	36	55	65
	5	5	5	5	5	5	5	5	5	6	6	5	5	6	6	19	19	19
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	-	-	-
	36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	-	-	-
	16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-
	7	6.2 (3P) l	101.6 (4	IP)	105 (3P) 140 (4P)			138 (3P) 184 (4P)			138 (3P) 184 (4P)			210 (3P) 280 (4P)				
	,		30	,	. 55	158	,			48	,	248					320	
			'O			70				10		110					120	
			38			88				37				37			253	
00																		

3VA1 basic units up to 1000 A

Application

			b against			
			3VA10	3VA11	3VA11	
Electrical characteristics	according to IEC 60947-2					
Number of poles			3/4-pole	1-pole	2-pole	
Size			100 A	160 A	160 A	
Rated operational current I _n a	at 50 °C ambient temperature		16 100 A	16 160 A	16 160 A	
3VA1 molded case circuit	breakers for line protection, standard app	lications	(IEC 60947-2)			
Service life (make-break op	perations)					
Mechanical (NO contact – No	C contact)		20000	20000	20000	
Electrical	380 415 V I _n		9000	9000	9000	
	I _n /2		15000	15000	15000	
	690 V		6300	6300	6300	
Trip Units						
TM210	FTFM					
TM220	ATFM		-	-	-	
TM240	ATAM		-	-	-	
3VA1 molded case circuit	breakers for starter protection (IEC 60947	-4-1 stan	dards and specifications	acc. to AC-1)		
Rated operational current I _n a	at 50 °C ambient temperature	Α	-	-	-	
Service life (switching cycle	es)					
Mechanical (NO contact – No	C contact)		-	-	-	
Electrical	380 415 V		-	-	-	
Trip Units						
TM120M	AM		_	-	-	
Switch disconnectors (IEC						
Electrical characteristics ac						
	I _u at 50 °C ambient temperature	Α	-	-	-	
Rated operational voltage U _e		V	-	-	-	
Rated operational voltage U _e		V	-	-	-	
	iit current I_q with upstream 3VA1 circuit breaker	kA	-	-	-	
Permissible rated short-time	current I _{cw} (1 s)	kA	-	-	-	

⁻ Not available/not present

^{*} On request



3VA2 basic units up to 1600 A

Technical data

								000			
				3V/	A20			3V	A21		
Electrical charac	teristics according to IEC 60947-2										
Number of poles				3/4-	pole			3/4-	pole		
Size				10	0 A			16	0 A		
Rated operational	current I _n at 50 °C ambient temperature			25	100 A			25	160 A		
Rated operational	voltage U _e 50/60 Hz AC			69	0 V			69	0 V		
Rated insulation vo	oltage U _i			80	0 V			80	0 V		
Rated impulse with	hstand voltage U _{pulse}			8	kV			8	kV		
Use in IT networks	; ;							1	•		
Frequency				50/6	50 Hz			50/6	50 Hz		
Breaking capaci	ty		М	Н	С	L	М	Н	С	L	
Rated ultimate sh	nort-circuit breaking capacity I _{cu}										
50/60 Hz AC	220 240 V	A	85	110	150	200	85	110	150	200	
	380 415 V	A	55	85	110	150	55	85	110	150	
	440 V	A	55	85	110	150	55	85	110	150	
	500 V	А	36	55	85	100	36	55	85	100	
	690 V	A	2	2	2	25	2.5	2.5	2.5	25	
DC	125 V (1 switching pole)	A	-	-	-	-	-	-	-	-	
	250 V (2 switching poles)	А	-	-	-	-	-	-	-	-	
	500 V (3 switching poles)	А	-	-	-	-	-	-	-	-	
	600 V (4 switching poles)	А	-	-	-	-	-	-	-	-	
Rated service sho	ort-circuit breaking capacity I _{cs}										
50/60 Hz AC	220 240 V	A	85	110	150	200	85	110	150	200	
	380 415 V	A	55	85	110	150	55	85	110	150	
	440 V	A	55	85	110	150	55	85	110	150	
	500 V	A	36	55	85	100	36	55	85	100	
	690 V	A	2	2	2	18	2.5	2.5	2.5	18	
DC	125 V (1 switching pole)	A	-	-	-	-	-	-	-	-	
	250 V (2 switching poles)	A	-	-	-	-	-	-	-	-	
	500 V (3 switching poles)	A	-	-	-	-	-	-	-	-	
	600 V (4 switching poles)	A	-	-	-	-	-	-	-	-	
Dimensions											
- D -	A	mm		105 (3P)	140 (4P))		105 (3P)	140 (4P)	,	
94	В	mm		1	81			1	81		
NSEO_01136	С	mm		8	36			3	36		
	D	mm		1	07			1	07		

■ Available

- Not available/not present

* On request











	18.71	3		WI-I-S			· I · I ·										
	3V	A22			3V/	A23			3V/	A24			3VA25	5		3VA27	,
	3/4-	-pole			3/4-	pole			3/4-	pole			3/4-pole			3/4-pole	
		0 A				0 A				0 A			1000 A			1600 A	
		. 250 A				. 400 A			400			63	30 1000	O A	80	Α	
		0 V				0 V				0 V			690 V			690 V	
		00 V				0 V				0 V			800 V			1000 V	
	8	kV				kV			8				8 kV			8 kV	
		•				•				•			-			•	
		50 Hz				0 Hz				0 Hz			50/60 Hz			50/60 Hz	
M	Н	С	L	M	Н	С	L	M	Н	С	L	M	Н	С	М	Н	С
25	440	450	200	0.5		450	de	0.5	440	450		0.5	440	200	400	450	200
85	110	150	200	85	110	150	*	85	110	150	*	85	110	200	100	150	200
55	85	110	150	55	85	110	*	55	85	110	*	55 *	85 *	110	55	85	110
55	85	110	150	55	85	110	*	55	85	110	*				55	85	100
36 3	55 3	85	100	36 5	55 5	85 5	*	36 6	55 6	85 6	*	36 25	55	85 35	36	55	85
3	3	3	25							-			35		25	36	50
-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-
_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-
_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.5	110	450	200	0.5	110	450	*	0.5	110	450	*	0.5	440	450	400	450	200
85	110	150	200	85	110	150	*	85	110	150	*	85	110	150	100	150	200
55	85	110	150	55	85	110	*	55	85	110	*	55 *	85 *	110	55 55	85	110
55	85	110	150	55	85	110	*	55	85	110	*					85	100
36 3	55 3	85 3	100 18	36 5	55 5	65 5	*	36 6	55 6	85 6	*	36 19	55 19	65 19	36 25	55 36	63 36
	3	_	-	-	-	-	_	-	-	0	_	-	-	-	-	30	-
		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_				_	_	_	_			_	_	_	_				
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	105 (3P)	140 (4P	')		138 (3P)	184 (4P)			138 (3P)	184 (4P)		210	(3P) 280) (4P)	210	(3P) 280	(4P)
	1	81			24	48			24	18			320			291	
	3	36			1	10			1.	10			120		171 (toggle operat mechanism) 183 (stored energ operating mechani		
	1	07			13	37			13	37			253			225	

3VA2 basic units up to 1600 A

Application

			5
		3VA20	3VA21
Electrical characte	eristics according to IEC 60947-2		
Number of poles		3/4-pole	3/4-pole
Size		100 A	160 A
Rated operational cu	urrent I _n at 50 °C ambient temperature	25 100 A	25 160 A
Service life (make-l	break operations)		
Mechanical (NO con	tact – NC contact)	25000	25000
Electrical	380 415 V I _n	15000	14000
	I _n /2	20000	20000
	690 V	10500	9800
Trip units			
ETU320	LI	-	•
ETU330	LIG	•	•
ETU340	ELISA LI	-	•
ETU350	LSI	-	•
ETU550/ETU850	LSI	-	•
ETU560/ETU860	LSIG	-	•
ETU650	LSI	-	-
ETU360	LSIG	-	-
ETU660	LSIG	-	-
3VA2 molded case	e circuit breakers for motor/starter protection (IEC 60947-4-1 star	ndards and specifications acc. to A	C-1)
Rated operational cu	urrent I _n at 50 °C ambient temperature	-	25 100 A
Service life (make-l	break operations)		
Mechanical (NO con	rtact – NC contact)	-	25000
Electrical	380 415 V	-	14000
Trip units			
ETU310M	T. Control of the con	-	•
ETU350M	LSI	-	•
ETU550M	LSI	-	•
ETU860M	LSIG	-	•
ETU320	Ш	-	-
ETU350	LSI	-	-
ETU360	LSIG	-	-
ETU650	LSIG	-	-
ETU660	LSIG	-	-
■ Available – No	t available/not present * On request		



Trip units

Protection system for 3VA molded case circuit breakers up to 1000 A

	TM240 I,/A I,/A	ETU350 LSI		
	1201_19035	1, /A t,/s l,=xl, t,/s l,=xl Al.2	ETU550M LSI A ESO AL2 OK C I A12 OK C I 201_19701	ETU860M LSIG ACT COM ALSI COM
	TM 2-series	ETU 3-series	ETU 5-series	ETU 8-series
Protection function				
Line protection	TM210, TM220, TM240	ETU320, ETU330, ETU340, ETU350	ETU550, ETU560	ETU850, ETU860
Starter protection	TM120M	ETU310M	-	-
Motor protection	-	ETU350M	ETU550M	ETU860M
Integrated functions				
Parameterizing	Setting and reading the parameters • In A	Setting and reading the parameters • In A and s	Setting and reading the parameters • Via display and communication • Fine setting of the parameters • Reading the measured values	 Setting and reading the parameters Via display and communication Fine setting of the parameters Reading the measured values
Status display	-	Indicating the ETU status via LEDs	Indicating the ETU status via LEDs	Indicating the ETU status via LEDs
Interface	-	Interface for test devices	Interface for test devices	Interface for test devices
Metering function	-	-	-	Metering function integrated
Optional expansions				
24 V module	-	-	24 V module for continuous power supply (also without primary current through the	24 V module for continuous power supply (also without primary current through the molded case
External function box	_	EFB300 external function box	molded case circuit breaker) EFB300 external function box for	circuit breaker) EFB300 external function box for
Communication module	_	for connection to the ETU	connection to the ETU COM060 communication	connection to the ETU COM060 communication module
Breaker data server	-	-	module COM800/COM100 breaker data server with interface to PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP)	COM800/COM100 breaker data server with interface to PROFIBUS PROFINET Modbus RTU Ethernet (Modbus TCP)
External display	-	-	DSP800 external display for installing in the cubicle door	DSP800 external display for installing in the cubicle door
Test device	-	TD300/TD400/TD500 test device	TD300/TD400/TD500 test device	TD300/TD400/TD500 test device

Protection functions of the 3VA1 with thermal-magnetic trip unit

	TM120M	TM210	TM220	TM240
	AM	FTFM	ATFM	ATAM
Protections				
Starter protection		-	-	-
Line protection	-	•	•	•
Version available with				
1-pole and 2-pole breakers	-	•	-	-
3-pole breaker		•	•	•
4-pole breaker	-		•	
Available protection parameters				
I _r adjustable	-	-	•	•
l _i adjustable		-	-	•
I _r fixed	-		-	-
I _i fixed	-	•	•	_
I _N 1)	-		•	

^{3 3}VA10 only without N protection 3VA11, 3VA12, 3VA13, 3VA14 without, 50% or 100% N protection 50% N protection from In ≥100 A

Protection functions of the 3VA2 with electronic trip unit

	ETU310M	ETU320	ETU330	ETU340	ETU350	ETU350M	ETU550	ETU550M	ETU560	ETU850	ETU860	ETU860M
	1	LI	LIG	ELISA®	LSI	LSI	LSI	LSI	LSIG	LSI	LSIG	LSIG
Protection												
Starter protection		-	-	-	-	-	-	-	-	-	-	-
Motor protection	-	-	-	-	-		-		-	-	-	
Line protection	-					-		-				-
Generator protection	-			-	-	-		-				-
Version available with												
3-pole without external neutral conductor transformer	•	•	•	•	•	•	-	•	-	-	-	•
3-pole with external neutral conductor transformer	-	-	-	-	-	-	•	-	•	•	•	-
4-pole with protected neutral conductor transformer	-	•	•	•	•	-	•	-	•	•	•	-
Available protection parameters												
Characteristic in L range	l²t	l²t	l²t	l ⁴ t	l²t	l²t	l²t	l²t	I²t	l²t	l²t	l²t
I_r	-											
t_r at $6 \times I_r$	-			-		-		-				-
t _c	-	-	-	-	-		-		-	-	-	
t _p	-	-	-	-	-	-	-		-	-	-	
Thermal image					•							
Thermal image can be switched on/off	-	-	-	-	-	-	•	-	•	•	•	-
I _{sd}	-	-	-	-								
t_{sd} at $8 \times I_r$	-	-	-	-								
Characteristic in S range: I ² t _{sd}	-	-	-	-	•	-		-				-
Characteristic in S range: selectable I ² t _{sd} / t _{sd}	-	-	-	-	-	-	•	-	•	•	•	-
l _i					•						•	
I _N 1)	-				-	-	-	-			-	-
lg	-	-		-	-	-	-			-		
t_g at 2 × I_g	-	-		-	-	-	-			-		
Characteristic in G range: I ² t _g	-	-		-	-	-	-			-	-	
Characteristic in G range: selectable I^2t_g/t_g	-	-	•	-	-	-	-	•	•	-	•	•
Ground-fault alarm function	-	-	-	-	-	-	-			-		
Blocking protection	-	-	-	-	-	-	-	-	-	-	-	-
ZSI in combination with an EFB external function box	-	•	•	•	•	•	•	•	•	•	•	•

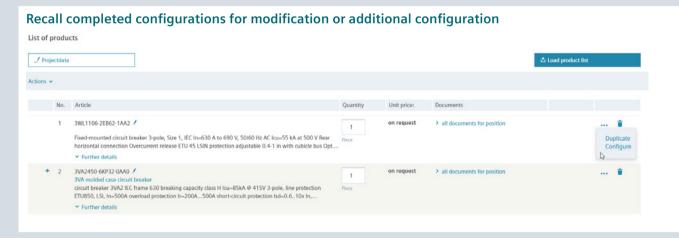
¹⁾ Available in a version with external current transformer for N conductor or 4-pole breaker

Online configurator highlights

siemens.com/lowvoltage/configurators



Product list stores multiple configurations and can transfer them collectively to the shopping cart List of products Projectdata Actions > No. Article Quantity Unit price: On request all documents for position Fixed-mounted circuit breaker 3-pole, Size 1, IEC In-630 A to 690 V, 50160 Hz AC Icu-55 kA at 500 V Rear horizontal connection Overcurrent release ETU 45 LSIN protection adjustable 0.4-1 in with cubicle bus Opt.... Further details * 2 3VA2450-6KP32-0AA0 / 3VA molded case circuit breaker 3-VAC IEC frame 630 breaking capacity class H Icu-85kA @ 415V 3-pole, line protection ETU850, LSI, In-500A overload protection Ir-200A...500A short-circuit protection Isd-0.6..10x In,... Further details

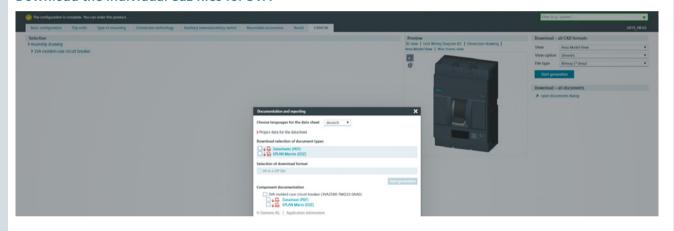




www.siemens.com/lowvoltage/3va-configurator and www.siemens.com/lowvoltage/3va27-configurator



Download the individual edz files for 3VA



Automatic generation of the 3D model, 2D dimension drawing and the internal circuit diagram according to IEC



System overview

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA

Basic units







3VA1 for standard applications

3VA2 for selective applications

Trip unit







Electronic trip unit (ETU)



Electronic trip unit (ETU)

Trip unit accessories



24 V module









unit (TMTU)

with display, and optionally with metering function

tion module server

display

Test device

Installation type



Fixed-mounted



ದದದ Draw-out unit, complete kit



ದೆದೆದ Plug-in unit, complete kit

Supplementary accessories



Auxiliary circuit connector



feedthrough signaling switch



Cylinder lock adapter



Crank

Main conductor connection



Front bus connectors extended



Front bus connectors offset



Circular conductor Box terminal



terminals

Connection accessories



Insulation accessories

Auxiliary releases/auxiliary switches





















releases

Universal release

Undervoltage release

Auxiliary switch

signaling switch switch LCS

Leading changeover Electrical alarm switches EAS

Short circuit alarm switch

Mountable accessories







Manual operator

Motorized operating mechanism

Residual current device

Additional circuit breaker accessories





Adapter for DIN rails

Mechanical interlocks













Locking device

Sliding bar interlock

Interlocking with rod

Handle interlock using a Bowden cable

Cylinder lock

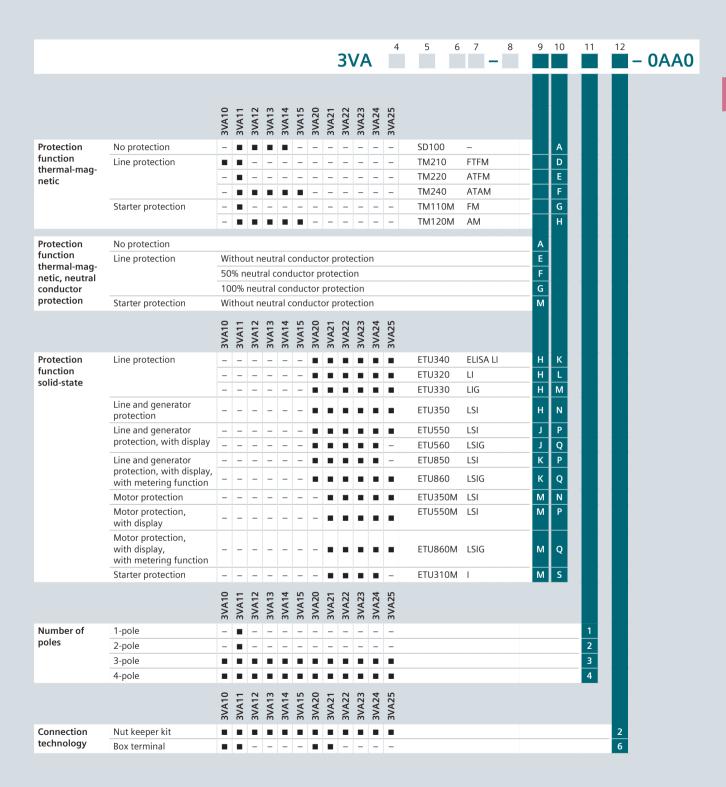
Structure of the article numbers

Basic configuration

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA

										3,	V	Δ	4	5	6	7	-	8	9	10	1	1	12	-	0/	Δ
										J	v /	`													J/	\/ -
Trip units	Thermal-magnetic												1			ı	ŀ									
mp ames	Electronic												1													
	Electronic															ı										
Size	100 A													0												
	160 A													1												
	250 A													2 3 4 5												
	400 A													3												
	630 A													4												
	1000 A													5												
		0	_	2	m	4	2	0	_	7	m	4	2			H										
		3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25													
		8	€	3	8	€	3	3	3	3	€	€	3													
Current setting of	8 A	_		-	-	_	-	-	-	_	_	_	-		0	8										
the inverse-time	12.5 A	_		-	-	_	_	-	-	_	_	_	-		9	2 6										
delayed overload protection	16 A			-	-	_	-	-	-	-	_	-	-		9	6										
p. 0 10 cm 0	20 A			-	-	_	_	-	_	-	_	-	-		2	0										
	25 A			-	-	-	-			-	-	-	-		2	5 2										
	32 A			-	-	-	-	-	-	-	_	-	-		3	2										
	40 A			_	-	-	-			-	_	-	-		4 5	0										
	50 A			-	-	-	-	-	-	-	-	-	-		5	0										
	63 A			-	-	-	-			-	_	-	-		6	3										
	80 A			-	-	-	-	-	_	-	_	-	-		8	0										
	100 A			-	-	-	-			-	_	-	-		1	0										
	125 A	-		-	-	-	-	-	-	-	_	-	-		1	2										
	160 A	-			-	-	-	-			-	-	-		1	2 6										
	200 A	-	-		-	-	-	-	-	-	-	-	-		2	0										
	250 A	_	-			-	-	-	_			_	-		2											
	320 A	_	-	-		-	-	-	_	_	_	_	-		3	5 2										
	400 A	_	-	-			-	-	_	-			-		4	0										
	500 A	-	-	-	-		-	-	_	_	_		-		5	0										
	630 A	-	-	-	-			-	_	_	_				6	3	_									
	800 A	-	-	-	-	-		-	_	_	_	_			8	0	_									
	1000 A	-	-	-	-	-	•	-	_	_	_	_	•		1	0										
				٠,		-		_		6.																
		3VA10	3VA11	A12	3VA13	3VA14	A15	3VA20	3VA21	3VA22	3VA23	3VA24	3VA25													
		37,	3V	38	38	38	3V	38	3V	38	38	38	38													
Short-circuit breaking capacity L = L at	Without overload protection, without short-circuit protection	_	-	•	•	-	-	-	-	_	-	-	-					1								
I _{cu} = I _{cs} at 380 415 V	16 kA		_	-	_	_	_		_	_	_	_	_					2								
	25 kA				_	-	_	_	_	_	_	_	_					3								
	36 kA	+		-	-	-		Ē	_		_	Ξ	_					4								
	55 kA	-		-	-		-	_	-	-		Ī	_					5								
		+							_	_	_	-	-			_		6								
	70 kA							_		_								0								
	70 kA	+-	-	Ε	Ξ	_	_				-							6								
	70 kA 85 kA 110 kA	-	-	Ξ	-	-	-	•	-	•	•		Ħ					2 3 4 5 6 6 7								

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System overview, page 2/20 Siemens LV 10 · 10/2019

Internal accessories

Auxiliary switches and alarm switches

				ntuge/com	3					3VA20 3VA21 3VA22
								3VA12		3VA23
						3VA10	3VA11	3VA13 3VA14	3VA15	3VA24 3VA25
Auxiliary	switches	AUX				JVATO	SVATT	SVAIT	SVAIS	37723
	• Use the • The	d to signal molded ca contacts o	se circu of the au	ition of the mai it breaker Ixiliary switch ar ose in unison						
m.	Туре	Width	l _e	U _e AC/DC	Version					
	HQ	7 mm (1 slot)	6 A <1 A	240 V/250 V 24 V/24 V	Standard Electronic- compatible			3VA9988-0AA12 3VA9988-0AA13		
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard			3VA9988-0AA11		
Leading c	:hangeov	er switche	es LCS							
	 Sign 	nal the ope	ning of	g, for example the main contac nce of circuit bro						
	Type	Width	l _e	U _e AC/DC	Version					
-	HQ	7 mm	6 A	240 V/250 V		-			8-0AA22	
		(1 slot)	<1 A	24 V/24 V	Electronic- compatible	-		3VA998	8-0AA23	
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard	-		3VA998	8-0AA21	
Trip alarn	n switche	s TAS								
	• Are	actuated v	vhenev	eaker tripping o er the molded ca ne TRIP position						
<u>™</u>	Type	Width	l _e	U _e AC/DC	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard			3VA9988-0AB12		
		(1 slot)	<1 A	24 V/24 V	Electronic- compatible			3VA9988-0AB13		
	HP	14 mm (2 slots)	10 A	600 V/250 V	Standard			3VA9988-0AB11		
Short circ	uit alarm	switches	SAS							
	initi • The ack	ated by a s tripping o nowledger	short cir peration nent of	ions only if they cuit n must be reset I the fault before in be switched to	by deliberate the molded					
1	Type	Width	l _e	U _e AC/DC	Version					
	HQ	7 mm (1 slot)		240 V/250 V 24 V/24 V	Standard Electronic- compatible		3VA9988-0AB32 3VA9988-0AB33			-
Electrical	alarm sv	itches EA	S							
Liectifical	Are mol	actuated a	s soon ircuit br	as the main con eaker open in th by the ETU						
	Туре	Width	l _e	U _e AC/DC	Version					
	HQ	7 mm	6 A	240 V/250 V	Standard	-	-	-	-	3VA9988-0AB22
		(1 slot)	<1 A	24 V/24 V	Electronic- compatible	-	-	-	-	3VA9988-0AB23

Auxiliary releases

Configure your molded case circuit breaker easily online at

		Itage/configurate	Dr-5VA			
				3VA10		
				3VA11	3VA20	
				3VA12	3VA21	
				3VA13	3VA22	
				3VA14	3VA23	
				3VA15	3VA23	3VA25
Shunt trips lef	+ STI			SVAIS	3VA24	SVAZS
Siluit trips let		ote-controlled tripping of	the molded case circuit			
	breaker • Have particula	arly low power consump	tion			
-	Version	table for electrical interlo Ua 50/60 Hz AC	U _e DC			
	Standard	– 50/00 112 AC	12 V		3VA9988-0BL10	
SEMENS	Staridard	24 V	24 30 V		3VA9988-0BL30	
at 1		48 60 V	48 60 V		3VA9988-0BL31	
		110 127 V	110 127 V		3VA9988-0BL32	
		208 277 V	220 250 V		3VA9988-0BL33	
		380 600 V	-		3VA9988-0BL20	
	Electrical (EI)	-	24 V		3VA9988-0BM10	
Shunt trips fle	xible STF					
		ote-controlled tripping of	the molded case circuit			
	breakerFlexible instal					
	Version	U _e 50/60 Hz AC	U _e DC			
1444		24 V	-	-	3VA9988-0BA20	-
anues -		48 60 V	-	-	3VA9988-0BA21	-
		110 127 V		_	3VA9988-0BA22	-
		208 277 V	_	-	3VA9988-0BA23	-
		380 500 V 600 V	_	-	3VA9988-0BA24 3VA9988-0BA25	-
Universal relea	ases IINI	000 V	_		3VA9900-0BA23	
Oniversarreica		of shunt release and und	lervoltage release			
4328	Version	U _a 50/60 Hz AC	U _e DC			
1444		_	12 V		3VA9908-0BD11	
		_	24 V		3VA9908-0BD12	
		-	48 V		3VA9908-0BD13	
Undervoltage	releases UVR	-	48 V		3VA9908-0BD13	
Undervoltage	 Trips the mole voltage of a n 	nonitored circuit drops be	n the event that the rated elow a minimum permissible		3VA9908-0BD13	
Undervoltage	Trips the mole	nonitored circuit drops be	n the event that the rated	_	3VA9908-0BD13	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be Itogether	n the event that the rated elow a minimum permissible		3VA9908-0BD13	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be Itogether	n the event that the rated elow a minimum permissible U _e DC			
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be Itogether	n the event that the rated elow a minimum permissible U _e DC 12 V		3VA9908-0BB10	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be Itogether U _e 50/60 Hz AC - - 24 V	n the event that the rated elow a minimum permissible U _e DC 12 V		3VA9908-0BB10 3VA9908-0BB11	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be Itogether U _e 50/60 Hz AC – – 24 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be ltogether Ue 50/60 Hz AC 24 V - 48 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB13	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be litogether Ue 50/60 Hz AC 24 V - 48 V - 60 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB13 3VA9908-0BB22	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be litogether Ue 50/60 Hz AC 24 V - 48 V - 60 V 110 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V -		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB22	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be litogether Ue 50/60 Hz AC 24 V - 48 V - 60 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - -		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB23	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be litogether Ue 50/60 Hz AC 24 V - 48 V - 60 V 110 V 120 127 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - - 125 127 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be litogether Ue 50/60 Hz AC 24 V - 48 V - 60 V 110 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - - 125 127 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB25	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be litogether Ue 50/60 Hz AC 24 V - 48 V - 60 V 110 V 120 127 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - - 125 127 V - 220 230 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be altogether Ue 50/60 Hz AC	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - - 125 127 V - 220 230 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16	
Undervoltage	 Trips the mole voltage of a n limit or fails a 	nonitored circuit drops be altogether Ue 50/60 Hz AC	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - - 125 127 V - 220 230 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26	
	Trips the mole voltage of a n limit or fails a Version	nonitored circuit drops be altogether Ue 50/60 Hz AC	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - - 125 127 V - 220 230 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16	
	Trips the mole voltage of a n limit or fails a Version vices for undervolta	nonitored circuit drops be altogether Ue 50/60 Hz AC	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V 250 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB23 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26	
	Trips the mole voltage of a n limit or fails a Version	nonitored circuit drops be altogether Ue 50/60 Hz AC	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V 250 V - Ue DC		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26 3VA9908-0BB27	
	Trips the mole voltage of a n limit or fails a Version vices for undervolta	nonitored circuit drops be altogether U _e 50/60 Hz AC 24 V - 48 V - 60 V 110 V 120 127 V - 208 230 V 380 400 V 440 480 V age releases U _e 50/60 Hz AC 110 V	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - - 125 127 V 20 230 V 250 V - - 10 C 110 V		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB14 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB27	
	Trips the mole voltage of a n limit or fails a Version vices for undervolta	nonitored circuit drops be altogether Ue 50/60 Hz AC	n the event that the rated elow a minimum permissible Ue DC 12 V 24 V - 48 V - 60 V - 125 127 V - 220 230 V 250 V - Ue DC		3VA9908-0BB10 3VA9908-0BB11 3VA9908-0BB20 3VA9908-0BB12 3VA9908-0BB21 3VA9908-0BB22 3VA9908-0BB23 3VA9908-0BB24 3VA9908-0BB24 3VA9908-0BB15 3VA9908-0BB15 3VA9908-0BB16 3VA9908-0BB26 3VA9908-0BB27	

Manual operators

	iens.com/now	<i>g</i>		3VA10 3VA11	3VA12	3VA20 3VA21 3VA22	3VA13 3VA14 3VA23 3VA24	3VA15 3VA25
Front mount	ed rotary operato	rs						
	HandleFor IECDegree of protectFor 3-pole and 4							
	Version	Illumination kit	Door interlock					
	Standard (gray)	Without	Without	3VA9157-0EK11	3VA9257-0EK11	3VA9267-0EK11	3VA9467-0EK11	3VA9687-0EK11
			With	3VA9157-0EK21	3VA9257-0EK21	3VA9267-0EK21	3VA9467-0EK21	3VA9687-0EK21
9		With	Without	3VA9157-0EK13	3VA9257-0EK13	3VA9267-0EK13	3VA9467-0EK13	-
			With	3VA9157-0EK23	3VA9257-0EK23	3VA9267-0EK23	3VA9467-0EK23	-
	EMERGENCY-	Without	Without	3VA9157-0EK15	3VA9257-0EK15	3VA9267-0EK15	3VA9467-0EK15	3VA9687-0EK15
	STOP (red/yellow)		With	3VA9157-0EK25	3VA9257-0EK25	3VA9267-0EK25	3VA9467-0EK25	3VA9687-0EK25
		With	Without	3VA9157-0EK17	3VA9257-0EK17	3VA9267-0EK17	3VA9467-0EK17	-
			With	3VA9157-0EK27	3VA9257-0EK27	3VA9267-0EK27	3VA9467-0EK27	-
Door mounte	ed rotary operator	s with toleran	ce compensati	ion				
	 Shaft 300 mm (3) With mounting the Handle with material (100 × 100 mm) Degree of protections of the protection of the Program of	tolerance compe sking plate 75 × for 3VA15/3VA ction IP65	ensation 75 mm					
	Version	Illumination kit	Door interlock					
/	Standard (gray)	Without	With	3VA9157-0FK21	3VA9257-0FK21	3VA9267-0FK21	3VA9467-0FK21	3VA9687-0FK21
		With	With	3VA9157-0FK23	3VA9257-0FK23	3VA9267-0FK23	3VA9467-0FK23	3VA9467-0FK23
/	EMERGENCY-	Without	With	3VA9157-0FK25	3VA9257-0FK25	3VA9267-0FK25	3VA9467-0FK25	3VA9687-0FK25
	STOP (red/yellow)	With	With	3VA9157-0FK27	3VA9257-0FK27	3VA9267-0FK27	3VA9467-0FK27	3VA9467-0FK27
Door mounte	ed rotary operator	s without tole	rance compen	sation <mark>new</mark>				
	 Shaft 300 mm (: Handle with mar (100 × 100 mm) Degree of protection For 3-pole and 4 	sking plate 75 × for 3VA15/3VA ction IP65	75 mm					
	Version	Illumination kit	Door interlock					
	Standard (gray)	Without	With	3VA9157-0FK61	3VA9257-0FK61	3VA9267-0FK61	3VA9467-0FK61	3VA9687-0FK61
Door mounte	ed rotary operator	s without han	dle					
	For IECDegree of protectFor 3-pole and 4	-pole breakers						
	Version	Illumination kit	Door interlock					
	With shaft stub (gray)	-	Without	3VA9157-0GK00	3VA9257-0GK00	3VA9267-0GK00	3VA9467-0GK00	3VA9687-0GK00

							3VA13	
						3VA20	3VA13 3VA14	
				3VA10		3VA20 3VA21	3VA14 3VA23	3VA15
				3VA11	3VA12	3VA21	3VA23 3VA24	3VA15
Side wall mo	unted rotary oper	ators		JVAIT	JVAIZ	34722	JVAZT	JVAZJ
4	 Rotary operator Handle with ma Degree of prote For 3-pole and 4 	with shaft 300 sking plate 75 × ction IP65						
	Version	Mounting bracket	Illumination kit					
	Standard (gray)	Without	Without	3VA9157-0PK11	3VA9257-0PK11	3VA9267-0PK11	3VA9467-0PK11	-
			With	3VA9157-0PK13	3VA9257-0PK13	3VA9267-0PK13	3VA9467-0PK13	-
	EMERGENCY-	Without	Without	3VA9157-0PK15	3VA9257-0PK15	3VA9267-0PK15	3VA9467-0PK15	-
	STOP (red/yellow)		With	3VA9157-0PK17	3VA9257-0PK17	3VA9267-0PK17	3VA9467-0PK17	-
Side wall mo	unted rotary oper	ators with mo	unting plates					
4	Rotary operator plate for mountHandle with maDegree of proteFor 3-pole and 4	ing directly on t sking plate 75 × ction IP65	he side wall					
	Version	Mounting bracket	Illumination kit					
	Standard (gray)	With	Without	3VA9157-0PK51	3VA9257-0PK51	3VA9267-0PK51	-	-
			With	3VA9157-0PK53	3VA9257-0PK53	3VA9267-0PK53	-	-
	EMERGENCY-	With	Without	3VA9157-0PK55	3VA9257-0PK55	3VA9267-0PK55	-	-
	STOP (red/yellow)		With	3VA9157-0PK57	3VA9257-0PK57	3VA9267-0PK57	-	-
Extended DI	N rails for N/PE ter	minals new						
	Version	Rated curren	t					
	For mounting plate	Up to 250 A		3VA9987-0GL30	3VA9987-0GL30	3VA9987-0GL30	-	-
Auxiliary swi	tch modules for re	otary operatin	g mechanisms	new				
,	Version							
	2× leading to "ON"			3VA9257-0GX10	3VA9257-0GX10	3VA9467-0GX10	3VA9467-0GX10	-
	2× leading to "ON"		to "OFF"	_	-		3VA9467-0GX20	_
Mounting ad	apters for side wa			new				
	Version							
	Necessary accessor rotary operators, if modules are used			3VA9257-0GX01	3VA9257-0GX01	3VA9467-0GX01	-	-
Masking plat	es, standard <mark>new</mark>							
	Version							
	Necessary accessor operators and 3VA operators, if 3VA9. modules are used	side wall moun 0GX.0 auxilia	ted rotary	8UD1900-0BB01	8UD1900-0BB01	8UD1900-0BB01	8UD1900-0BB01	-
Masking plat	es, EMERGENCY S	TOP new						
	Version							
	Necessary accessor operators and 3VA operators, if 3VA9. modules are used	side wall moun	ted rotary	8UD1900-0BB05	8UD1900-0BB05	8UD1900-0BB05	8UD1900-0BB05	-

Manual operators

						3VA13	
					3VA20	3VA14	
			3VA10		3VA21	3VA23	3VA15
			3VA11	3VA12	3VA22	3VA24	3VA25
Supplementa	ary handles for do	or mounted rotary operators	5				
100	For operation w	hen cabinet door is open					
	Version						
	Standard (gray)		3VA9287-0GC01	3VA9287-0GC01	3VA9487-0GC01	3VA9487-0GC11	3VA9687-0GC01
	EMERGENCY-		3VA9287-0GC05	3VA9287-0GC05	3VA9487-0GC05	3VA9487-0GC15	3VA9687-0GC05
	STOP (red/yellow)						
Handles							
- ID	With masking pl						
	Version	Tolerance compensation					
	Standard (gray)	With		8UD1721-0AB21		8UD1731-0AB21	
		Without		8UD1721-0AB11		8UD1731-0AB11	8UD1741-0AB11
	EMERGENCY-	With		8UD1721-0AB25		8UD1731-0AB25	8UD1741-0AB25
	STOP (red/yellow)	Without		8UD1721-0AB15		8UD1731-0AB15	8UD1741-0AB15
Handle exter							
		e lever extension is already scope of supply of the					
			_	-	_	3VA9487-0SC10	3VA9987-0SC10
Shafts							
- //	Versions	Length					
	8 × 8 mm	300 mm		8UD190	0-2WA00		-
		600 mm		8UD190	0-2WB00		-
	12 × 12 mm	300 mm	_	-	_	-	8UD1900-4WA00
		600 mm	-	-	-	-	8UD1900-4WB00
Adapters for	shafts						
	Versions	Purpose					
	8 × 8 mm	With door mounted rotary operator and side wall mounted rotary operator		8UD190	0-2DA00		-
	12 × 12 mm	For door mounted rotary operator	-	-	-	-	8UD1900-4DA00
Door couplin	gs						
	Versions						
	8 × 8 mm			8UD190	0-2HA00		-
	12 × 12 mm		-	-	-	-	8UD1900-4HA00
P							

				3VA20	3VA13 3VA14	
		3VA10		3VA21	3VA23	3VA15
		3VA11	3VA12	3VA22	3VA24	3VA25
Mounting to	lerance compensations					
	Versions					
	8 × 8 mm		8UD190	0-2GA00		-
	12 × 12 mm	-	-	-	-	8UD1900-4GA00
Fixing brack	ets for shafts					
44						
0		3VA9287	7-0GA80	3VA948	7-0GA80	3VA9687-0GA80
Variable dept	h adapters					
	Size					
	8 × 8 mm		3VA948	7-0GB10		-

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Manual operators

www.sien	nens.com/lowvoltage/d	configurator-	3VA				
						3VA20	
						3VA21	
			3VA10			3VA22	
			3VA11	3VA13		3VA23	
			3VA12	3VA14	3VA15	3VA24	3VA25
Labeling plate	es for manual operators						
17					3VA9087-0SX10		
Illumination k	kits for manual operators						
	24 V DC voltage						
	Version	Rated current					_
	Front rotary operating	100 250 A	8UD1900-0KA10	_	_	_	_
\prec	mechanism	100 630 A	-	8UD1900-0KA20	_	8UD1900-0KA20	_
		630 1000 A	_	-	8UD1900-0KA30	-	8UD1900-0KA30
	Door mounted rotary operator	100 630 A	8UD1900-0KA20	8UD1900-0KA20		8UD1900-0KA20	-
	and side wall mounted rotary	630 1000 A	_	_	_	_	8UD1900-0KA30
	operator	030 1000 /1					0001700 010150
Cylinder locks	(type Kaba), standard masking	plates					
	Purpose	Key					
	For door mounted rotary	1	8UD1900-0MB01	8UD1900-0MB01	-	8UD1900-0MB01	-
	operator and side wall	2	8UD1900-0NB01	8UD1900-0NB01	-	8UD1900-0NB01	-
	mounted rotary operator (in the masking plate)	3	8UD1900-0PB01	8UD1900-0PB01	-	8UD1900-0PB01	-
	(III the masking plate)	4	8UD1900-0QB01	8UD1900-0QB01	-	8UD1900-0QB01	-
Cylinder locks	(type Kaba), EMERGENCY OFF	masking plates					
	Purpose	Key					
	For door mounted rotary	1	8UD1900-0MB05	8UD1900-0MB05	-	8UD1900-0MB05	-
	operator and side wall	2	8UD1900-0NB05	8UD1900-0NB05	-	8UD1900-0NB05	-
	mounted rotary operator (in the masking plate)	3	8UD1900-0PB05	8UD1900-0PB05	-	8UD1900-0PB05	-
	(iii tile illaskilig plate)	4	8UD1900-0QB05	8UD1900-0QB05	-	8UD1900-0QB05	-
Cylinder locks	(type Ronis)						
	 Includes a lock with 2 keys 						
	For locking or interlockingFor installation in all rotary or	aorators					
01	For mounting in the adapter						
	accessories compartment						
	Note: The cylinder lock adapt						
	operators is also needed for le interlocking circuit breakers v						
	operators	ia rotary					
	Key						
	1				3VA9980-0VL10		
	3				3VA9980-0VL30		
	4				3VA9980-0VL40		
Cylinder lock	adapters for rotary operators						
50-	To mount the cylinder lock in	the rotary					
	operator (also possible with o						
m III . B .	rotary operator and side wall operator)	mounted rotary					
	Rated current						
	100 630 A		3VA9980-0LF20	3VA9980-0LF20	-	3VA9980-0LF20	
	1000 A		-	-	3VA9680-0LF20	-	3VA9680-0LF20
					2 13 000 027 20		25000 02.20

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Motor operators

Configure your molded case circuit breaker easily online at

www.siemens.com/lowvoltage/configurator-3VA

Side mounted motor operators (MO310)



Cover size 45 mm Addressable via Isolating features in Make time, typically Break time, typically Rated control signals operational accordance with for 3VA1 for 3VA2 for 3VA1 for 3VA2 IEC/EN 60947-1 power <300 ms <300 ms 250 W, max. 500 W (60 ms)

Motor operators without stored energy operators (MO320)



Ŀ	inout stored energy	operators (moses)					
	Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, typ	oically for 3VA2	Break time, type for 3VA1	oically for 3VA2	Rated operational power
	•	•	<800 ms (160 A, 250A)	<1000 ms (250 A), <1700 ms (630 A)	<800 ms (160 A, 250A)	<1000 ms (250 A), <1400 ms (630 A)	250 W, max. 500 W

Motor operators with stored energy operators (SEO520)

- Synchronizable remote operating mechanism with optional communication link
- Has two spring assemblies that are used to switch the 3VA2 molded case circuit breaker on and off quickly. This new principle in the MCCB
 area ensures fast, reliable and easily controllable switching sequences, especially in load transfer switching applications.
- The connection with the COM060 communication module, via a plug-in connection, integrates the SEO520 into the communication
 environment of the 3VA molded case circuit breakers and ensures that the molded case circuit breaker can also be switched via the
 supported communication networks and the powerconfig and powermanager software packages.
- Note: On account of the fast switching times, the SEO520 cannot be used with a leading changeover switch LCS.



Addressable via control signals	Isolating features in accordance with IEC/EN 60947-1	Make time, ty	ypically for 3VA2	Break time, t	ypically for 3VA2	Rated operational power
•	•	-	<80 ms	-	<80 ms	300 W, max. 500 W (60 ms)

Mechanical operating cycles counters (for installation in the SEO520)



 Mounting
 Article No.

 For installation in the SEO520
 3VA9987-0HX10

Cylinder lock adapters for SEO520



 Mounting
 Article No.

 For installation of cylinder locks in the SEO520
 3VA9980-0LF30

Cylinder locks (type Ronis)



Includes a lock with 2 keys
 For locking the operating mode (Manual/Auto/Lock) of the SEO520

For locking the operating mode (Manual/Auto/Lock) of the SEO520	
Key	Article No.
1	3VA9980-0VL10
3	3VA9980-0VL30
4	3VA9980-0VL40

					3VA20 3VA21	3VA13 3VA14 3VA23
			3VA11	3VA12	3VA22	3VA24
		1421-1				
	control y voltage	With communication				
	60 V AC, 60 V DC	-	3VA9117-0HB10	-	-	-
	. 230 V AC, . 250 V DC	-	3VA9117-0HB20	-	-	-
	control y voltage	With communication				
24	60 V DC	-	3VA9157-0HA10	3VA9257-0HA10	3VA9267-0HA10	3VA9467-0HA10
	. 230 V AC, . 250 V DC	-	3VA9157-0HA20	3VA9257-0HA20	3VA9267-0HA20	3VA9467-0HA20
	control y voltage	With communication				
24 V [OC .	-	-	-	3VA9267-0HC10	-
42	60 V AC/DC	-	-	-	3VA9267-0HC20	-
	. 230 V AC, . 250 V DC	-	-	-	3VA9267-0HC30	-
24 V [Yes	-	-	3VA9267-0HC15	-
	. 230 V AC, . 250 V DC	Yes	-	-	3VA9267-0HC35	-



Reset mode

All motor operators have the following reset modes:

Reset mode 1: Automatic reset

Reset mode 2: Reset via OFF-signal

The motor operator with SEO520 stored energy operator additionally has: Reset mode 3: Reset via OFF-signal with additional acknowledge signal



• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

						3VA10
						3VA11
Box terminals						
	Conn	ection options	Scope of supply	Copper stranded		
	0	e	3 single terminals	1.5 70 mm²		3VA9153-0JA11
				6 120 mm²		-
				25 185 mm²		-
				50 185 mm²		-
				35 300 mm²		-
	0	2	4 single terminals	1.5 70 mm²		3VA9154-0JA11
				6 120 mm²		-
6-2- END				25 185 mm²		-
				50 185 mm²		_
				35 300 mm²		-
Nut keeper units						
	Conn	ection options	Scope of supply	Max. tap width	Max. tap thickness	
	0	2	3 single terminals	17 mm	6.5 mm	3VA9113-0QA00
0.0.0				25 mm	8 mm	-
				35 mm	10 mm	-
			Nut keeper kit for 3-pole	50 mm	25 mm	-
			breakers, 1 terminal cover			
	0	2	4 single terminals	17 mm	6.5 mm	3VA9114-0QA00
2.2.2.2				25 mm	8 mm	-
				35 mm	10 mm	-
			Nut keeper kit for 4-pole	50 mm	28 mm	-
			breakers, 1 terminal cover			
Circular conducto						
	Conn	ection options	Scope of supply	Copper/aluminum stranded		
49 44	0	2	3 single terminals	1.5 10 mm ² new		3VA9113-0JB10
0 0 0				1.5 50 mm²		-
				10 95 mm²		3VA9113-0JB11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm²		-
	0	2	4 single terminals	1.5 10 mm² new		3VA9114-0JB10
ର ଗ ଗ ଗ				1.5 50 mm²		-
				10 95 mm²		3VA9114-0JB11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm²		_

Only permitted up to 400 A
 Maximum current-carrying capacity of copper cables 380 A Maximum current-carrying capacity of aluminum cables 310 A

		3VA13	
	3VA20	3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA21	3VA23	3VA25
SVATZ	SVAZZ	3VA24	SVAZS
-	-	_	-
3VA9253-0JA11	3VA9163-0JA12	-	-
-	3VA9263-0JA12	-	-
3VA9253-0JA12	-	-	-
	-	3VA9483-0JA13 1)	-
	_	-	-
3VA9254-0JA11	3VA9164-0JA12	-	-
-	3VA9264-0JA12	-	-
3VA9254-0JA12	-	-	-
-	-	3VA9484-0JA13 1)	-
	-	-	-
3VA9213-0QA00	3VA9203-0QA00	-	-
-	-	3VA9403-0QA00	-
-	-	-	3VA9603-0QA00
-	-	-	-
3VA9214-0QA00	3VA9204-0QA00	-	-
-	-	3VA9404-0QA00	-
-	-	-	3VA9604-0QA00
	-	-	-
-	3VA9103-0JB11	-	-
-	-	-	-
-	3VA9263-0JB12	-	-
3VA9253-0JB12	-	-	-
-	-	3VA9383-0JB13 ²⁾	=
-	3VA9104-0JB11	-	-
-	_	-	-
-	3VA9264-0JB12	-	-
3VA9254-0JB12	-	-	-
-	_	3VA9384-0JB13 ²⁾	_



• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

						3VA10 3VA11
ular conducto			conductor terminals, 1 ca			
	Conn	ection options	Scope of supply	Copper/aluminum stranded		
7	0	2	3 single terminals	1.5 10 mm ² new		3VA9113-0JG10
0 87				1.5 50 mm²		-
				10 95 mm²		3VA9113-0JG11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm²		-
	0	2	4 single terminals	1.5 10 mm² new		3VA9114-0JG10
व ता ता				1.5 50 mm²		_
				10 95 mm²		3VA9114-0JG11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm ²		-
ular conducto	r termina	als, 2 cables				
	Conn	ection options	Scope of supply	Copper/aluminum stranded	Aux. conductor terminal	
	0	2	3 single terminals,	120 300 mm²	No	-
-			1 short terminal cover		Yes ²⁾	-
चेंच जिल्ला						
1-1-1	0	2	4 single terminals,	120 300 mm²	No	-
***			1 short terminal cover		Yes ²⁾	-
ට්ස් <u>ස්</u>						
ılar conducto	_					
	Conn	ection options	Scope of supply	Copper/aluminum stranded	Aux. conductor terminal	
-1-1	0	2	3 single terminals,	120 185 mm²	No	-
27 mg			1 short terminal cover		Yes ²⁾	-
রিন রিন ———						
			4	420 405 3	NI .	
1-1-	0	2	4 single terminals, 1 short terminal cover	120 185 mm²	No Yes ²⁾	-
विकास			1 Short terminar cover		res-/	_
lian, conduct	or tormi	nals for how torm	inals?)			
	Versi	nals for box termi	mais /			
		-mounted				3VA9110-0WB00
		n and draw-out tec	hnology			3VA9110-0WB00
	i iug i	muna araw out tee	imology			347/3130 044800
W						
liary conduct		nals for busbars 2)				
	Versi					20/40442-20022
		-mounted				3VA9110-0WC00
	Plug-i	in and draw-out tec	hnology			3VA9150-0WC00
SOF						

Maximum current-carrying capacity of copper cables 380 A Maximum current-carrying capacity of aluminum cables 310 A

Maximum current-carrying capacity 15 A Maximum cable connection up to 2.5 mm²

		3VA13	
	3VA20	3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
-	-	-	-
-	3VA9103-0JG11	-	-
-	-	-	-
-	3VA9263-0JG12	-	-
3VA9253-0JG12	-	-	-
_	-	3VA9383-0JG13 1)	-
-	3VA9104-0JG11	-	-
-	-	-	-
-	3VA9264-0JG12	-	-
3VA9254-0JG12	-	-	-
-	-	3VA9384-0JG13 ¹⁾	-
_	-	-	3VA9503-0JB23
-	-	-	3VA9503-0JG23
-	-	-	3VA9504-0JB23
-	-	-	3VA9504-0JG23
-	-	-	3VA9503-0JB32
-	_	-	3VA9503-0JG32
-	-	-	3VA9504-0JB32
-	-	-	3VA9504-0JG32
3VA9200-0WB00	3VA9200-0WB00	3VA9480-0WB00	-
3VA9280-0WB00	3VA9280-0WB00	3VA9480-0WB00	-
3VA9200-0WC00	3VA9200-0WC00	3VA9480-0WC00	-
3VA9280-0WC00	3VA9280-0WC00	3VA9480-0WC00	-



• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

Configure your molded case circuit breaker easily online at www.siemens.com/lowvoltage/configurator-3VA

ront bus con	nectors extended					
	Number of poles	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness
	1P	0	-	1 busbar connection piece	22 mm	8 mm
14	3P	0	2	3 single terminals,	22 mm	8 mm
				2 phase barriers	32 mm	10 mm
					40 mm	12.5 mm
					50 mm	28 mm
	4P	0	2	4 single terminals,	22 mm	8 mm
				3 phase barriers	32 mm	10 mm
					40 mm	12.5 mm
77					50 mm	28 mm
ont bus con	nectors offset					
	 Distance betwee 100/160 A = 3 250 A = 45 m 400/630 A = 7 	35 mm m	enters:			
	Number of poles	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness
44	3P	0	2	3 single terminals,	30 mm	8 mm
//				2 phase barriers	35 mm	10 mm
					60 mm	12.5 mm
144	4P	0	2	4 single terminals,	30 mm	8 mm
				3 phase barriers	35 mm	10 mm
					60 mm	12.5 mm
is connector	rs edgewise					
	Number of poles	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness
И	3P	0	2	3 single terminals,	20 mm	6 mm
				2 phase barriers	25 mm	7 mm
1					40 mm	8 mm
144	4P	0		4 single terminals,	20 mm	6 mm
				3 phase barriers	25 mm	7 mm
					40 mm	8 mm
ıt keeper un	its, right-angled ¹⁾					
	Number of poles	Conne	ection options		Max. tap width	Max. tap thickness
4 4	3P	0	2	3 single terminals,	22 mm	8 mm
44				2 phase barriers	32 mm	10 mm
					40 mm	12.5 mm
	4P	0	2	4 single terminals,	22 mm	8 mm
	4P	0	0	4 single terminals, 3 phase barriers	22 mm 32 mm	8 mm 10 mm

 $^{\rm 1)}$ Can only be connected to breaker side N, 1, 3, 5

			3VA13	
		3VA20	3VA14	
3VA10		3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
2144454				
3VA9151-0QB00	-	-	-	-
3VA9153-0QB00	-	-	-	-
_	3VA9253-0QB00	3VA9263-0QB00	-	-
-	-	-	3VA9483-0QB00	-
-	-	-	-	3VA9603-0QB00
3VA9154-0QB00	_	_	-	_
	3VA9254-0QB00	3VA9264-0QB00	_	_
-	_	-	3VA9484-0QB00	-
_	-	-	-	3VA9604-0QB00
3VA9153-0QC00	-	-	_	
3VA9153-0QC00	3VA9253-0QC00	- 3VA9263-0QC00	-	-
	- 3VA9233-0QC00	- -	3VA9483-0QC00	_
			377757 00000	
3VA9154-0QC00	-	-	-	-
-	3VA9254-0QC00	3VA9264-0QC00	-	-
-	-	-	3VA9484-0QC00	-
3VA9153-0QD00	-	-	-	-
-	3VA9253-0QD00	3VA9263-0QD00	-	-
-	-	-	3VA9483-0QD00	-
3VA9154-0QD00				
3VA9134-0QD00 -	- 3VA9254-0QD00	- 3VA9264-0QD00	_ _	_
	- -	- -	3VA9484-0QD00	_
			317.5 10 1 0 0 0 0 0 0	
3VA9113-0QG00				
- 5VA9115-0Q000	3VA9213-0QG00	- 3VA9223-0QG00		_
	-	- -	3VA9403-0QG00	_
			3 3 . 63 6 6 6 6 6	
3VA9114-0QG00	-	-	-	-
-	3VA9214-0QG00	3VA9224-0QG00	-	-
-	-	-	3VA9404-0QG00	-



For mounting onto the circuit breakerFor mounting onto withdrawable and plug-in units

Rear connection st	tuds flat			
	Number of poles Connection options		ction options	Scope of supply
	1P	0	2	1 short connection stud flat
				1 long connection stud flat
# D-	3P	0	2	2 short connection studs flat,
4				1 long connection stud flat
5 5	4P	0	2	2 short connection studs flat,
3333				2 long connection studs flat
Rear connection st	tuds round			
	Number of poles	Connec	ction options	Scope of supply
a	1P	0	2	1 short connection stud round
				1 long connection stud round
3 A.	3P	0	2	1 long connection stud round,
333				2 short connection studs round
A	4P	0	2	2 long connection studs round,
444				2 short connection studs round

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			3VA13	
		3VA20	3VA14	
3VA10		3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
3VA9111-0QE10	3VA9211-0QE10	3VA9201-0QE10	3VA9401-0QE10	-
3VA9111-0QE20	3VA9211-0QE20	3VA9201-0QE20	3VA9401-0QE20	-
3VA9113-0QE00	3VA9213-0QE00	3VA9203-0QE00	3VA9403-0QE00	-
3VA9114-0QE00	3VA9214-0QE00	3VA9204-0QE00	3VA9404-0QE00	-
3VA9111-0QF10	3VA9211-0QF10	3VA9201-0QF10	3VA9401-0QF10	-
3VA9111-0QF20	3VA9211-0QF20	3VA9201-0QF20	3VA9401-0QF20	-
3VA9113-0QF00	3VA9213-0QF00	3VA9203-0QF00	3VA9403-0QF00	-
3VA9114-0QF00	3VA9214-0QF00	3VA9204-0QF00	3VA9404-0QF00	-

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• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

rcular condu	ıctor terminals, 2P				
	Connection options	Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
	0 -	2 single terminals,	1	25 150 mm²	Yes 1)
		1 extended terminal cover,			No
9		1 insulation plate	6	1.5 35 mm²	No
cular condu	ıctor terminals, 3P				
	Connection options	Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
	0 -	3 single terminals, 1 extended terminal cover,	1	25 150 mm²	Yes 1) No
P.P		1 insulation plate		50 240 mm²	Yes 1) No
			2	25 150 mm²	Yes ¹⁾
				70 300 mm²	Yes 1)
			4	120 240 mm²	No Yes 1)
			6	1.5 35 mm²	No No
	- 2	3 single terminals, 1		25 150 mm²	Yes 1)
	•	1 extended terminal cover,	'	50 240 mm ²	Yes 1)
		1 insulation plate	2	25 150 mm²	Yes 1)
			2	70 300 mm²	Yes 1)
			6	1.5 35 mm²	No
ular condu	ıctor terminals, 4P				
	Connection options	Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor terminal
•	0 –	4 single terminals, 1 extended terminal cover,	1	25 150 mm²	Yes 1)
<u> </u>					No
1212 1940		1 insulation plate		50 240 mm²	Yes 1)
					No
			2	25 150 mm²	Yes 1)
					No
				70 300 mm²	Yes 1)
					No
			4	120 240 mm²	Yes 1)
					No
			6	1.5 35 mm²	No
	- 2	4 single terminals,	1	25 150 mm²	Yes 1)
		1 extended terminal cover,		50 240 mm²	Yes 1)
		1 insulation plate	2	25 150 mm²	Yes 1)
			_		
				70 300 mm²	Yes 1)

Maximum current-carrying capacity 15 A Maximum cable connection up to 2.5 mm²

		3VA20	3VA13 3VA14	
3VA10		3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
3VA9112-0JC12	-	-	-	-
3VA9112-0JJ12	-	_	-	-
3VA9112-0JF60	-	-	-	-
3VA9113-0JC12	-	-	-	-
3VA9113-0JJ12	-	-	-	-
-	3VA9213-0JC13	3VA9223-0JC13	-	-
-	3VA9213-0JJ13	3VA9223-0JJ13	-	-
-	3VA9213-0JC22	3VA9223-0JC22	-	-
-	3VA9213-0JJ22	3VA9223-0JJ22	-	-
-	-	-	3VA9403-0JC23	-
-	-	-	3VA9403-0JJ23	-
_	-	-	-	3VA9603-0JC43
-	-	-	-	3VA9603-0JJ43
3VA9113-0JF60	3VA9213-0JF60	3VA9223-0JF60	3VA9303-0JF60	-
3VA9153-0JC12	-	-	-	_
_	3VA9253-0JC13	3VA9263-0JC13	_	_
_	3VA9253-0JC22	3VA9263-0JC22	_	_
_	_	_	3VA9483-0JC23	_
3VA9153-0JF60	3VA9253-0JF60	3VA9263-0JF60	3VA9383-0JF60	_
3VA9114-0JC12	-	-	-	-
3VA9114-0JJ12	_	_	_	_
=	3VA9214-0JC13	3VA9224-0JC13	_	_
_	3VA9214-0JJ13	3VA9224-0JJ13	_	_
_	3VA9214-0JC22	3VA9224-0JC22	_	_
_	3VA9214-0JJ22	3VA9224-0JJ22	_	_
_	-	-	3VA9404-0JC23	_
_	_	_	3VA9404-0JC23	_
_	_	_	- -	3VA9604-0JC43
_	- -	_ _		3VA9604-0JU43
3VA9114-0JF60	3VA9214-0JF60	3VA9224-0JF60	- 3VA9304-0JF60	- -
3VA9154-0JC12				_
	- 3VA9254-0JC13	- 3VA9264-0JC13	-	
_		3VA9264-0JC13		-
-	3VA9254-0JC22	JVA9204-UJC22	- 2\/\\0.4\\\0.1\C.2.2	-
2)/40154 01560	21/40254 01560	2)//0264 01560	3VA9484-0JC23	_
3VA9154-0JF60	3VA9254-0JF60	3VA9264-0JF60	3VA9384-0JF60	-



• For mounting onto the circuit breaker

For mounting onto withdrawable and plug-in units

: 11 - 6 - 61			3VA10	3VA11
ers specially for fixed				
Version	Number of poles	Mounting location		
Short	1P	0 -	3VA9111-0WD10	3VA9111-0WD
	2P	0 -	3VA9111-0WD20	3VA9111-0WD
	3P	0 -	3VA9111-0WD30	3VA9111-0WD
	4P	0 -	3VA9111-0WD40	3VA9111-0WD
Extended 1)	2P	• -	3VA9111-0WF20	3VA9111-0WF
	3P	0 -	3VA9111-0WF30	3VA9111-0WF
	4P	0 -	3VA9111-0WF40	3VA9111-0WF
Broadened 1)	3P	0 -	3VA9111-0WG30	3VA9111-0WG
Di daddii ca	4P	0 -	3VA9111-0WG40	3VA9111-0W0
s specially for plug	-in and draw-out units (spare part)	_	
For mountingIncluded in so		breaker e infeed and outgoing terminal		
Version	Number of poles	Mounting location		
Short	3P	0 -	3VA9113-0KB01	3VA9113-0KE
	4P	0 -	3VA9114-0KB01	3VA9114-0KB
For touch pro of the plug-ir	ntection in the termination of or draw-out socket		_	
For touch pro of the plug-ir	tection in the termination			
For touch proof the plug-irFor mounting	otection in the termination or draw-out socket g onto the plug-in or draw-o	out socket		3VA9153-0KE
of the plug-ir • For mounting Version	otection in the termination of or draw-out socket ground on the plug-in or draw-out socket Number of poles	out socket Mounting location		
For touch proof the plug-irFor mountingVersion	otection in the termination of or draw-out socket g onto the plug-in or draw-o Number of poles 3P	out socket Mounting location - ②		
For touch proof the plug-irFor mountingVersion	otection in the termination of or draw-out socket g onto the plug-in or draw-o Number of poles 3P	out socket Mounting location - ②		3VA9154-0KI
 For touch proof the plug-ir For mounting Version 	otection in the termination of draw-out socket gronto the plug-in or draw-o Number of poles 3P 4P	out socket Mounting location - ② - ②		3VA9154-0KE 3VA9153-0KE
 For touch proof the plug-ir For mounting Version 	otection in the termination of draw-out socket gronto the plug-in or draw-o Number of poles 3P 4P	out socket Mounting location - ② - ②	- - - -	3VA9154-0KE 3VA9153-0KE 3VA9154-0KE
For touch proof the plug-ir For mounting Version Short Extended 1)	otection in the termination of draw-out socket ground on the plug-in or draw-out ground	out socket Mounting location - ② - ② - ② - ②	- - - -	3VA9154-0KE 3VA9153-0KE 3VA9154-0KE 3VA9153-0KE
For touch proof the plug-ir For mounting Version Short Extended 1) Broadened 1)	otection in the termination of draw-out socket ground the plug-in or draw-out ground the ground the plug-in or draw-out ground the grou	out socket Mounting location -		3VA9154-0KE 3VA9153-0KE 3VA9154-0KE 3VA9153-0KE
• For touch proof the plug-ir • For mounting Version Short Extended 1) Broadened 1)	otection in the termination of draw-out socket ground the plug-in or draw-out ground the plug-in or draw-out socket ground the plug-in or draw-out	out socket Mounting location - ② - ② - ② - ② - ②		3VA9154-0KE 3VA9153-0KE 3VA9154-0KE 3VA9153-0KE
For touch proof the plug-ir For mounting Version Short Extended 1) Broadened 1)	otection in the termination of draw-out socket ground the plug-in or draw-out ground the ground the plug-in or draw-out ground the grou	out socket Mounting location -	- - - - - - 3VA9111-0WJ20	3VA9154-0KE 3VA9153-0KE 3VA9154-0KE 3VA9153-0KE 3VA9154-0KE
For touch proof the plug-ir For mounting Version Short Extended 1) Broadened 1) Broadened 1)	otection in the termination of draw-out socket ground the plug-in or draw-out ground the plug-in or draw-out socket ground the plug-in or draw-out	Mounting location -		3VA9153-0KB 3VA9154-0KB 3VA9153-0KB 3VA9154-0KB 3VA9154-0KB 3VA9111-0WL 3VA9111-0WL
For touch proof the plug-ir For mounting Version Short Extended 1) Broadened 1)	otection in the termination of draw-out socket ground the plug-in or draw-out ground the ground the plug-in or draw-out ground the ground t	Mounting location -		3VA9154-0KE 3VA9153-0KE 3VA9153-0KE 3VA9153-0KE 3VA9154-0KE
For touch proof the plug-ir For mounting Version Short Extended 1) Broadened 1) es Version	otection in the termination of or draw-out socket ground the plug-in or draw-out ground the plug-in or draw-out ground the plug-in or draw-out gro	Mounting location - 2 - 2 - 2 - 2 Mounting location - 2 - 2 - 2 - 1 - 2 - 1 - 2 - 1 - 2 - 1 - 1 - 1 - 1	3VA9111-0WJ30	3VA9154-0KE 3VA9153-0KE 3VA9154-0KE 3VA9154-0KE 3VA9154-0KE

A14 A23 A24 3VA15 1-0WD30 3VA9601-0WD30 1-0WD40
A24 3VA25 1-0WD30 3VA9601-0WD30 1-0WD40 3VA9601-0WD40 11-0WF30 - 11-0WF40 -
1-0WD40 3VA9601-0WD40
11-0WF30 – 11-0WF40 – 11-0WG30 –
1-0WF40 – 1-0WG30 –
1-0WG30 –
1-0WG40 –
53-0KB01 –
54-0KB01 –
4-0KB01 –
53-0KB03 –
54-0KB03 –
53-0KB04 –
54-0KB04 –
.3.nkr05
33-0KB05 –
53-0KB05 – 54-0KB05 –

			3VA10	3VA11	
Phase barriers	(fixed mounting, plug-	in and draw-out units)			
44	Scope of supply				
	2 phase barriers		3VA915.	2-0WA00	
DC insulation	plates for 3VA1 for fixe	d-mounted molded case circuit breakers			
20.00	Number of poles				
	3P		3VA911	3-0SG10	
	4P		3VA911	4-0SG10	
Side plates fo	r 3VA1 for fixed-mount	ed molded case circuit breakers			
t la	Number of poles	Mounting			
n n	2P	On 2-pole molded case circuit breakers	3VA911	2-0SG20	

		3VA13	
	3VA20	3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
3VA9252-0WA00	3VA9262-0WA00	3VA9482-0WA00	3VA9602-0WA00
-	-	-	-
-	-	-	-
		_	
_		_	-

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Plug-in and draw-out technology

The main differences between plug-in units and draw-out units are convenience of operation and the potential for functional expansion.

Thanks to plug-in and draw-out technology:

- Molded case circuit breakers can be replaced quickly and easily for overhauls or servicing
- Electrical isolation and clearly visible isolating distance
- The socket can be interlocked to prevent the 3VA molded case circuit breaker from being plugged in or moved in
- Identical connection technology for all molded case circuit breakers, whether they are plug-in, draw-out or fixed-mounted units

In addition, draw-out technology offers:

- Transmission of the position of the molded case circuit breaker via communication (CONNECT, TEST, DISCONNECT)
- The ability to test the auxiliary and control circuit connections in the test position of the draw-out unit, without contacted main current paths
- Transmission of the state of the molded case circuit breaker (ON, OFF, TRIP) via the COM060 communication module

Configure your molded case circuit breaker easily online at

www.sieme	ens.com/lowvoltage/configu	rator-3VA			
					3VA13
				3VA20	3VA14
				3VA21	3VA23
		3VA11	3VA12	3VA22	3VA24
Draw-out units	s, complete kits				
ada	 Scope of supply: Draw-out socket Conversion kit Mounting screw kit Note: The crank handle for the draw-out unit must be ordered separately. 				
	Number of poles				
	3P	_	3VA9213-0KD00	3VA9123-0KD00	3VA9323-0KD00
	4P	_	3VA9214-0KD00	3VA9124-0KD00	3VA9324-0KD00
Draw-out units	, conversion kits		37.52.110000	51.5.210000	511.5521 OKDOO
ddd	Scope of supply: Screw-fastened terminal covers for molded case circuit breakers Side panels Plug-in contacts Cable cages Autotrip plunger Note: The crank handle for the draw-out unit must be ordered separately.				
	Number of poles				
	3P	-	3VA9213-0KD10	3VA9123-0KD10	3VA9323-0KD10
	4P	-	3VA9214-0KD10	3VA9124-0KD10	3VA9324-0KD10
Plug-in units, c	omplete kits				
Track Control of the	 Scope of supply: Plug-in base Conversion kit Mounting screw kit 				
ಡೆಡೆಡ	Number of poles	20110442 01/200	21/4 22 4 2 21/22	21/40422 01/200	21/4 22 22 21/22 2
	3P 4P	3VA9113-0KP00 3VA9114-0KP00	3VA9213-0KP00 3VA9214-0KP00	3VA9123-0KP00 3VA9124-0KP00	3VA9323-0KP00 3VA9324-0KP00
Plug-in units, c		3VA9114-UKPUU	3VA9Z14-UKPUU	3VA9124-UKPUU	3VA93Z4-UKPUU
Plug-in units, c	Scope of supply:				
dad	Scope of supply. Screw-fastened terminal covers for molded case circuit breakers Plug-in contacts Cable cages Autotrip plunger				
	Number of poles				
	3P	3VA9113-0KP10	3VA9213-0KP10	3VA9123-0KP10	3VA9323-0KP10
	4P	3VA9114-0KP10	3VA9214-0KP10	3VA9124-0KP10	3VA9324-0KP10

					3VA13
				3VA20	3VA14
				3VA21	3VA23
		3VA11	3VA12	3VA22	3VA24
Cable cages for	plug-in/draw-out units (spare part)				
nine and sinks	 Cable duct for routing of the required cables from the internal accessories on the back of the circuit breaker 				
	Number of poles				
	3P/4P	3VA9157-0KB02	3VA9257-0KB02	3VA9167-0KB02	3VA9367-0KB02
Door feedthrou	ıghs				
		-	3VA9257-0KT00	3VA9167-0KT00	3VA9367-0KT00
Autotrip plung	ers (spare part)				
	Version				
	Plug-in unit	3VA9157-0KP81	3VA9257-0KP81	3VA9267-0KP81	3VA9457-0KP81
	Draw-out unit	-	3VA9257-0KD81	3VA9267-0KD81	3VA9457-0KD81

Accessories

Communication I	inks for draw-out u	nit	
	Scope of supply		Article No.
ere.	Set of cables with 3VA9987-0KC10 o	three special position signaling switches, connecting cables	3VA9987-0KC00
Position signaling	switches for draw	-out unit and plug-in unit	
4			Article No.
			3VA9987-0KB00
Connecting cable	S		
	Purpose		Article No.
	Connection of pos	sition signaling switches for communication with COM060	3VA9987-0KC10
Crank handles for	r draw-out units		
-	Version	Scope of supply	Article No.
)	Insulated	Including crank handle holder	3VA9987-0KD81
Auxiliary circuit c			
	Each auxiliary of	circuit connector is designed for 4 cables.	
	Version		Article No.
140	For all draw-out u	nits	3VA9987-0KD80
-	For all plug-in uni	ts	3VA9987-0KP80
Cylinder locks			
	 Scope of supply 1 lock with 2 For locking or i Note: Not for 3 	keys nterlocking	
	Key	Lock number	Article No.
	1	1	3VA9980-0VL10
	3	3	3VA9980-0VL30
	4	4	3VA9980-0VL40
Cylinder lock ada	pters for draw-out	units	
-10		uthorized withdrawal or insertion of the circuit breaker into the draw-out unit can be locked in the CONNECT, TEST and DISCONNECT positions	
	Purpose		Article No.
	For fitting a cylind side wall of the dr	ler lock in the right-hand aw-out unit	3VA9980-0LF40

Residual current devices RCD

According to IEC 60947-2 Annex B (Type A, Type B) and according to DIN VDE 0664-400 (Type B+)

Configure your molded case circuit breaker easily online at

www.siemens.com/lowvoltage/configurator-3VA

Mounted onto the side (left) • Can be mounted onto switch disconnectors and molded case circuit breakers Sensitivity³⁾ Rated Limit value of Rated voltage Pre-alarm Tripped signal Number of residual non-tripping U_e current frequency poles response current I_{∆n} RCD510 0.03 ... 5 A. 0 ... 3 s 127 ... 480 V AC 50/60 Hz 3-pole Type A instantaneous 127 ... 480 V AC 50/60 Hz 4-pole RCD310 0.03 ... 5 A. Type A RCD510 Type A 0.03 ... 5 A. 0 ... 3 s 127 ... 480 V AC 50/60 Hz

Mounted below (under trip unit)

· Can be mounted onto molded case circuit breakers

	Num-	21.		Rated				Pre-alarm			Tripped signal		
	ber of poles			residual response current I _{∆n}	non-tripping U _e time Δt		current frequency		NC COM	СОМ	TRIP	NC COM	СОМ
	3-pole	RCD520	Type A	0.03 5 A.	0 3 s	127 480 V AC	50/60 Hz	1	-	-	•	•	_
		RCD520B 1)4)	Type B	0.03 5 A.	0 10 s	127 690 V AC	0 100 kHz	1	•	_		•	-
		new	Type B+	0.03 0.3 A.									
		RCD820 ²⁾	Type A	0.03 30 A ⁵⁾	0 10 s	127 690 V AC	50/60 Hz	2	•		•	•	•
	4-pole	RCD320	Type A	0.03 5 A.	instantaneous	127 480 V AC	50/60 Hz	1	-	-			_
1		RCD520	Type A	0.03 5 A.	0 3 s	127 480 V AC	50/60 Hz	1	-	-			_
ı		RCD520B ⁴⁾	Type B	0.03 5 A.	0 10 s	127 690 V AC	0 100 kHz	1	•	-	•	•	_
7		new	Type B+	0.03 0.3 A.									
		RCD820 ²⁾	Type A	0.03 30 A ⁵⁾	0 10 s	127 690 V AC	50/60 Hz	2					

Residual current releases (spare part) new



Version Scope of supply For RCD310 or RCR, RCR-RCD cables RCD510

- 1) 3-pole version in 4-pole enclosure
- 2) With energy infeed from below, the required auxiliary switch (AUX) must be ordered separately
- Type A: pulse current sensitive, type B/B+: universal current sensitive
- Sensitivity selectable for type B/B+
- $I_{\Lambda n} = 30A$: type AC
- o) If the molded case circuit breaker has no box terminals as connections, a set of box terminals must be ordered additionally for the taps below the thermal-magnetic trip units.
- $^{7)}\,$ 1 set of box terminals is included in scope of supply of the RCD510 (3VA921.-0RS20).

Modular residual current devices type A/B (according to IEC 60947-2 Annex M) See monitoring devices, page 11/1

					3VA20			
			3VA11	3VA12	3VA20	3VA22	3VA23	3VA24
			37711	30002	J.V.L.	377.22	JVILLS	J.V.Z.
Monitoring mode (tripping can be disabled as an option)	Remote test/ remote reset	Communica- tion-capable						
•	-	-	3VA9113-0RS20 ⁶⁾	3VA9213-0RS20 ⁷⁾	-	-	-	-
•	_	-	3VA9114-0RS10 ⁶⁾	-	-	-	-	-
•	_	_	3VA9114-0RS20 ⁶⁾	3VA9214-0RS20 ⁷⁾	-	-	-	-
Monitoring mode (tripping can be disabled as an option)	Remote test/ remote reset	Communica- tion-capable						
-	_	-	3VA9113-0RL20	3VA9213-0RL20	-	-	-	-
•	-	-	3VA9113-0RL21	-	-	-	-	-
			-	-	3VA9123-0RL30	3VA9223-0RL30	3VA9323-0RL30	3VA9423-0RL30
-	_	_	3VA9114-0RL10	-	-	-	-	-
-	-	_	3VA9114-0RL20	3VA9214-0RL20	-	-	-	-
•	-	-	3VA9114-0RL21	-	-	-	-	-
			-	-	3VA9124-0RL30	3VA9224-0RL30	3VA9324-0RL30	3VA9424-0RL30
			3VA9988-0BR10	3VA9988-0BR10	-	-	-	-

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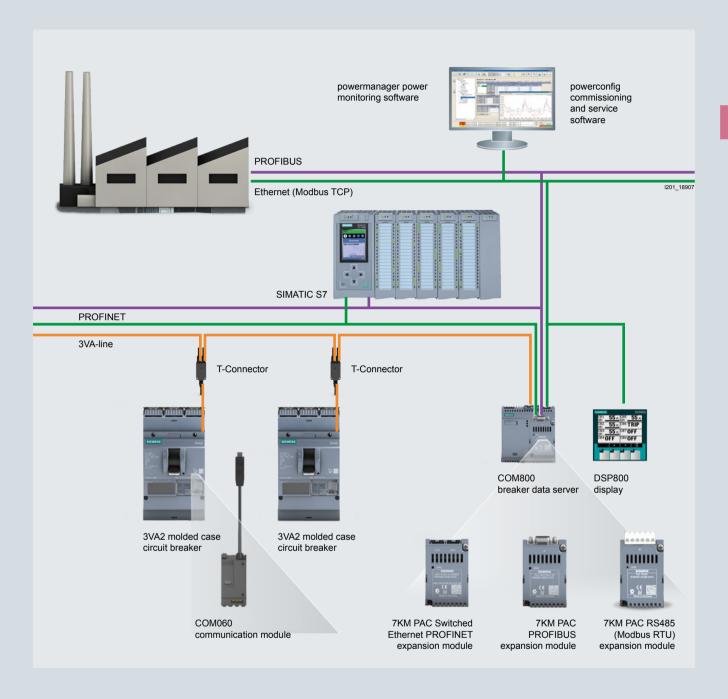
Communication

Metering function 1)			ETU 5- series	ETU 8- series	Display in ETU	Display DSP800	Communication COM800/COM100
Current							
Phase and neutral conductor currents	I ₁ , I ₂ , I ₃ , I _N	А					
Residual current to ground	l _g	Α					
Phase with highest load		Α		•			
Mean value over the three phase currents	$I_{leading axis} = (I_1 + I_2 + I_3)/3$	Α	-		-		
Asymmetry of the phase currents	I _{nba}	%	-		-		
THD of the 3 phases	THDI ₁ , THDI ₂ , THDI ₃	%	-		-		
Voltage							
Phase voltages incl. mean value	U ₁₂ , U ₂₃ , U ₃₁ , U _{phavg}	V	-				
Voltages to N conductor incl. mean value	U _{1N} , U _{2N} , U _{3N} , U _{Navg}	V	-		-		
Voltage unbalance		%	-		-		
THD phase/phase and phase/N	THDI ₁ , THDI ₂ , THDI ₃	%	-	•	-		
Power							
Active power, total and per phase	P ₁ , P ₂ , P ₃ , P _{tot}	kW	-	•	□ (P _{tot})		
Apparent power, total and per phase	S ₁ , S ₂ , S ₃ , S _{tot}	kVA	-	•	-		
Reactive power, total and per phase	Q ₁ , Q ₂ , Q ₃ , Q _{tot}	kVAr	-	•			
Power factor of the fundamental	P _{F1} , P _{F2} , P _{F3} , P _{Favg}		-	•	□ (PF _{avg})		
Energy							
Active energy, infeed and feedback	E _p	kWh	-	•			
Reactive energy, infeed and feedback	E _q	kVArh	-		-		
Apparent energy	E _s	kVAh	-	•	-		
Frequency							
Present frequency	f	Hz	-	•			
Maximum pointer function							
Min./max. current, voltage, power	With time stamp	-	-	-	-	-	-

- Not available

		3VA20	3VA23
		3VA21	3VA24
		3VA22	3VA25
COM060 commun	ication modules		
	 For mounting in the right-hand accessories compartment of the 3VA2 molded case circuit breaker (including ETU power supply) Including a T-Connector 		
	Purpose		
	Communication to the COM800/COM100 breaker data server via 3VA line	3VA9187-0TB10	3VA9387-0TB10
24 V modules			
	24 V DCFor mounting in the right-hand accessories compartment of the 3VA2		
2	Purpose		
H. H.	Optional energy supply for the ETU, also includes continuous operation of the ETU display and the metering function of the ETU 8-series	3VA9187-0TB50	3VA9387-0TB50

 $^{^{1)}}$ Depending on ETU version \blacksquare Available \Box Displayable



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Communication

Breaker data server

COM800 breaker data servers



Central communication module for connection of up to eight 3VA2 molded case circuit breakers via the 3VA line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors

Article No. 3VA9987-0TA10

COM100 breaker data servers



Central communication module for connection of a 3VA2 molded case circuit breaker via the 3VA line, Ethernet 10/100 Mbps interface module socket for inserting an optional PROFIBUS DP or PROFINET module, 2 terminating resistors

Article No. 3VA9987-0TA20

7KM PAC PROFIBUS DP expansion modules



Purpose
Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to PROFIBUS DPV1. Supplies the state and measured variables of the 3VA molded case circuit breaker for the PROFIBUS DP master. Receives information (e.g. commands) from the PROFIBUS DP master and transmits them to the 3VA molded case circuit breaker.

Article No. 7KM9300-0AB01-0AA0

7KM PAC Switched Ethernet PROFINET expansion modules



Purpose

Used for connecting the COM800/COM100 breaker data server, and the connected 3VA molded case circuit breakers, to PROFINET via two Ethernet interfaces. Supplies the state and measured variables of the 3VA molded case circuit breakers to PROFINET via the PROFINET IO, PROFIenergy and Modbus TCP protocols.

Article No. 7KM9300-0AE01-0AA0

7KM PAC RS485 Modbus RTU expansion modules



Purpose

Used for connecting the COM800/COM100 breaker data server, and the 3VA molded case circuit breakers connected to it, to Modbus RTU. Supplies the state and measured variables of the 3VA molded case circuit breaker for the Modbus RTU master. Receives information (e.g. commands) from the Modbus RTU master and transmits them to the 3VA molded case circuit breaker.

7KM9300-0AM00-0AA0

Article No.

Article No.

6MF28021AA00

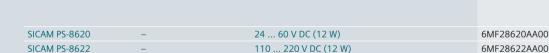
Interfaces to IEC 61850 new

The SICAM A8000 smart breaker data server connects the circuit breakers from the SENTRON portfolio
via the MODBUS TCP/IP protocol and transmits data via communication protocols (e.g.: IEC 61850,
IEC 60870-5-104, IEC 60870-5-101, MODBUS and DNP) to higher-level systems.

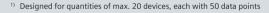
Processor assembly

4 interfaces



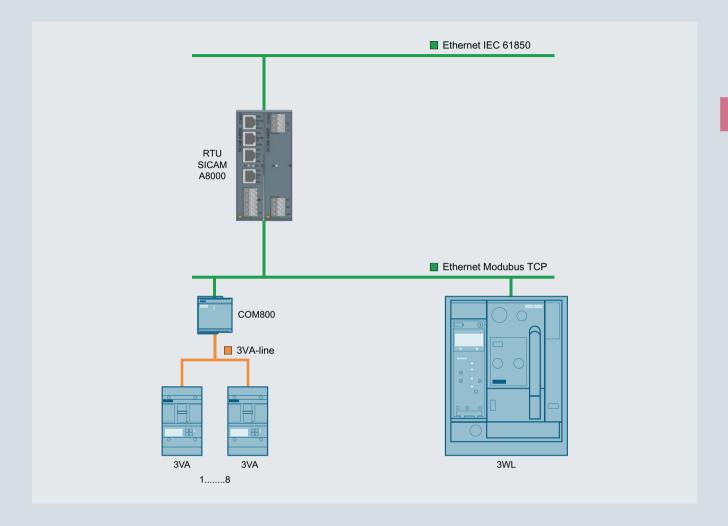


Operating voltage



SICAM CP-8021 1)

You will find further information at: www.siemens.com/sicam-a8000



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Communication

Accessories for communication

T-connectors (spa	re part)		
C TO	Purpose		Article No.
10	Provides a stub connection to the COM060 and lo	ops through to the next circuit breaker.	3VA9987-0TG10
DIN rail adapters			
1	Purpose		Article No.
mmm	For snapping the T-Connector onto a DIN rail.		3VA9987-0TG11
Prefabricated cor	necting cables, T-connector – T-connector or T-c	connector – COM800/COM100	
	Length		Article No.
	0.4 m		3VA9987-0TC10
	1 m		3VA9987-0TC20
	2 m		3VA9987-0TC30
	4 m		3VA9987-0TC40
Prefabricated cor	necting cables for extending the COM060 – T-co	onnector stub connection	
	Length		Article No.
	0.4 m		3VA9987-0TF20
	0.8 m		3VA9987-0TF10
Additional bus te	rminating resistors (spare part)		
	Purpose		Article No.
	For COM800 and COM060		3VA9987-0TE10
Voltage tap for ex	xternal N conductors (spare part)		
	Purpose		Article No.
b	Cable for connection of the star point for the meter	ering function of the 8-series ETU, length 1.5 m	3VA9987-0UC10
External current	transformer for N conductors		
	Purpose	Rated current I _n	Article No.
	For 3VA2 3-pole molded case circuit breakers,	25 150 A	3VA9007-0NA10
7 2	for 5 and 8-series ETUs,	160 350 A	3VA9107-0NA10
ы	including connecting cables	400 630 A	3VA9307-0NA10
External current t	transformers as straight-through transformers		
	Rated current I _n		Article No.
	25 150 A		3VA9077-0NA10
	160 350 A		3VA9177-0NA10
	400 630 A		3VA9377-0NA10
	600 1250 A		3VA9677-0NA10
Connecting cable	s for external current transformers for N conduc	ctors (spare part)	
/			Article No.
			21/4 2 2 2 3 2 4 4 2 4 2
10			3VA9907-0NB10

Display

DSP800 displays



For displaying the status and measured values of up to eight devices

3VA2 via COM800/100

- 3VA27
- 3WL10 • 3WL11-13
- PAC3200T

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Article No.

3VA9987-0TD10

External function box

EFB300 external function boxes



- 4 digital outputs for information output
- 1 digital input
- ZSI functionality
- S0-Interface
- Including cable 1.5 m in length

Purpose	Article No.
For connection to the ETU of 3VA2 molded case circuit breakers	3VA9987-0UA10

Connecting cables for EFB300



Length	Purpose	Article No.
1.5 m	For 3VA2 with EFB	3VA9987-0UB10
3.0 m	For 3VA2 with EFB	3VA9987-0UB20
	For 3VA2 with EFB and RCD820	3VA9987-0UB30

Test devices

TD300 test devices Connection Article No. Purpose For activation of the ETU and initiation On the front interface of the ETU 3VA9987-0MA10 of a test tripping operation TD400 test devices • Energy supply via batteries or the USB-C interface USB-C interface for connecting a PC with powerconfig Bluetooth interface for connection to a PC, smartphone or tablet ETU parameterization



- Including adapter and connecting cable to 3VA2 molded case circuit breaker and IEC 3WL (ETU release 2)
- Including case

Purpose Connection Article No. On the front interface of the ETU (3VA and IEC 3WL ETU release 2) Initiation of a test tripping operation 3VW9011-0AT40

TD500 test devices



- USB interface for connecting a PC with powerconfig
- · Including external power supply
- Including connecting cable to 3VA2 molded case circuit breaker

Purpose Connection Article No. Initiation of various test tripping On the front interface of the ETU 3VA9987-0MB10 operations (LSING), ETU parameterization

External power supplies for TD500 (spare part)



Voltage Article No. 110 ... 240 V 3VA9987-0MX10

Connecting cables for connecting TD500 to 3VA2 molded case circuit breakers (spare part)



Article No. 3VA9987-0MY10

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Locking, blocking and interlocking

					3VA20 3VA21
			3VA11	3VA12	3VA22
Locking	The locking devices make it possible in either the OFF or the ON operate.	ole to lock the 3VA molded case circuit breakers ting position.			
	Version				
	Cylinder lock Key 1 (l	lock number 1)		3VA9980-0VL10	
		lock number 3)		3VA9980-0VL30	
	Key 4 (I	lock number 4)		3VA9980-0VL40	
	Adapter kit for mounting the cylinder of the molded case circuit breaker	r lock (type Ronis) in the accessories compartment	3VA9157-0LF10	3VA9257-0LF10	3VA9167-0LF10
	Locking device for toggle operating r	mechanism	3VA908	8-0LB10	3VA9388-0LB10
Interlocking					
	 molded case circuit breakers. The interlock system is designed to circuit breaker can be operated at 	s possible to mutually interlock two or more o ensure that no more than one molded case a time. king can be used on 3VA molded case			
	Version				
	Cylinder lock Key 1 (l	lock number 1)		3VA9980-0VL10	
		lock number 3)		3VA9980-0VL30	
	Key 4 (I	lock number 4)		3VA9980-0VL40	
	Sliding bar interlock		3VA9158-0VF30	3VA9258-0VF30	3VA9168-0VF30
	Module for handle interlock using a E	Bowden cable	3VA9157-0VF10	3VA9257-0VF10	3VA9167-0VF10
	Bowden cable	Length 0.6 m Length 1.0 m		3VA9980-0VC10 3VA9980-0VC20	
		Length 1.5 m		3VA9980-0VC20 3VA9980-0VC30	
	Rear interlock with rod	Circuit breaker, fixed-mounted		3VA9088-0VM10	
		Plug-in/draw-out technology		3VA9088-0VM30	
	Mounting frame for rear interlock wi		3VA9088-0VK10	-	-
		Mounting panels	3VA9158-0VK20	3VA9258-0VK20	3VA9268-0VK20

Available from Q1/2020
 With mounting frame for rear interlock.
 Can be used with breaker 3VA15 from "E02" and 3VA25 from "E05" (Line protection CB with TMTU, 3-Series ETU and 5-Series ETU)

3VA13							
3VA14							
3VA23	3VA15						
3VA24	3VA25	Locking					
		Locking					
		Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
3VA9980-0VL10	-	Breakers, motor-drive mechanisms, manual	•	•	•	-	-
3VA9980-0VL30 3VA9980-0VL40	_	operators, withdraw-					
3777760-07240		able technology					
3VA9367-0LF10	3VA9587-0LF10	Circuit breaker	•	•	•	-	-
3VA9388-0LB10	3VA9588-0LB10	Circuit breaker	•	•	•	-	-
		Interlocking					
		Use in	Locking in	Locking in	Front	Rear	Interlocked
3VA9980-0VL10	_	Breakers, manual	OFF position	ON position	mounting	mounting	breakers Unlimited
3VA9980-0VL30	_	operators	-	_	•		Omminited
3VA9980-0VL40	-						
3VA9368-0VF30	_	Circuit breaker	_	-		-	3
3VA9367-0VF10	3VA9587-0VF10	Circuit breaker	-	-		-	3
3VA9367-0VF10	3VA9587-0VF10	Circuit breaker	-	-	•	-	3
3VA9367-0VF10 3VA9980		Circuit breaker	-	-	•	-	3
3VA998(3VA998(D-0VC10 D-0VC20	Circuit breaker	-	-	•	-	3
3VA998(D-0VC10 D-0VC20	Circuit breaker	-	-	•	-	3
3VA998(3VA998(D-0VC10 D-0VC20	Circuit breaker,	-	-	•	-	2
3VA998(3VA998(3VA998(0-0VC10 0-0VC20 0-0VC30		-	-	-	•	
3VA998(3VA998(3VA998(3VA9088-0VM10	0-0VC10 0-0VC20 0-0VC30 3VA9588-0VM10 1) 2)	Circuit breaker, fixed-mounted Plug-in/draw-out	-	-	-	•	

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Cover frame and mounting

			3VA10	
			3VA11	3VA12
er frames fo	r door cutouts for molded case			
	Number of poles	Door cut-out with trip unit		
	3P	No	3VA9053-0SB10	3VA9253-0SB10
		Yes	3VA9053-0SB20	3VA9253-0SB20
	4P	No	3VA9054-0SB10	3VA9254-0SB10
		Yes	3VA9054-0SB20	3VA9254-0SB20
r frames fo	r MO320 motor operators			
	Purpose			
	MO320 motor operator		3VA9053-0SB20	3VA9257-0SB30
	Motor operator with SEO520	stored energy operator	-	-
r frames fo	r RCD320, RCD520 and RCD820	residual current devices		
	Number of poles			
	3P		3VA9053-0SB10	3VA9253-0SB10
	4P		3VA9054-0SB10	3VA9254-0SB10
er frames fo	r front mounted rotary operate	ors		
.i maines io	Thome mounted rotary operate			
			3VA9053-0SB10	3VA9253-0SB10
r frames fo	r door feedthroughs			
			-	3VA9253-0SB20
ling plates for				3VA9253-0SB20
ling plates fo	or cover frame			3VA9253-0SB20
ling plates fo	or cover frame		- 3VA	
			- 3VA	3VA9253-0SB20 9087-0SX10
	N rails for 3VA1 molded case ci	rcuit breakers	- 3VA	
	N rails for 3VA1 molded case ci Number of poles	rcuit breakers	_	
	N rails for 3VA1 molded case ci Number of poles 1P	rcuit breakers	3VA9181-0SH10	
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P	rcuit breakers	3VA9181-0SH10 3VA9182-0SH10	
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P		3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10	9087-05X10 - - -
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with		3VA9181-0SH10 3VA9182-0SH10	
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with	RCD310 or RCD510	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10	9087-05X10 - - -
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with v kits Purpose	RCD310 or RCD510 Number of poles	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20	9087-05X10 - - -
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with	RCD310 or RCD510 Number of poles 1P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20	9087-05X10
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with v kits Purpose	RCD310 or RCD510 Number of poles 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA)	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	9087-05X10 6-0SS10
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with v kits Purpose	RCD310 or RCD510 Number of poles 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 4P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	9087-0SX10 6-0SS10 4-0SS10
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with v kits Purpose	RCD310 or RCD510 Number of poles 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 70 kA) and 4P 3P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	9087-05X10 6-0SS10
oters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with v kits Purpose	RCD310 or RCD510 Number of poles 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 70 kA) and 4P 3P 4P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA9111	9087-0SX10 6-0SS10 4-0SS10
pters for DIN	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with v kits Purpose For fixed-mounted breakers	RCD310 or RCD510 Number of poles 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 70 kA) and 4P 3P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA911 - -	9087-0SX10 6-0SS10 4-0SS10
	N rails for 3VA1 molded case ci Number of poles 1P 2P 3P and 4P 3P and 4P in connection with v kits Purpose	RCD310 or RCD510 Number of poles 1P 2P and 3P (apart from 125 A/160 A with 55 kA and 70 kA) 3P (125 A/160 A with 55 kA and 70 kA) and 4P 3P 4P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA911 - -	9087-0SX10 6-0SS10 4-0SS10

	3VA13	
3VA20	3VA14	
3VA21	3VA23	3VA15
3VA22	3VA24	3VA25
21/40162 05010	21/40202 05040	21/40502 05010
3VA9163-0SB10 3VA9163-0SB20	3VA9383-0SB10 3VA9363-0SB20	3VA9503-0SB10 3VA9503-0SB20
3VA9163-03B20 3VA9164-0SB10	3VA9383-03B20 3VA9384-0SB10	3VA9503-03B20 3VA9504-0SB10
3VA9164-0SB20	3VA9364-0SB20	3VA9504-0SB20
3VA9257-0SB30	3VA9387-0SB30	-
3VA9257-03B30	- -	_
337.57.67 63236		
21/40252 05840	21/40202 05040	
3VA9253-0SB10 3VA9254-0SB10	3VA9303-0SB40 3VA9304-0SB40	-
3VA9234-03B10	3VA93U4-U3D4U	_
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB50
3VA9253-0SB20	3VA9353-0SB20	-
	21/40027 001/40	
	3VA9087-0SX10	
-	-	-
-	_	_
_	-	_
-	-	-
_	-	-
-	-	-
3VA9126-0SS10 3VA9124-0SS10	-	-
5VA9124-U551U	- 3VA9328-0SS10	- 3VA9517-0SS10
	- -	- -
3VA9124-0SS10	3VA9328-0SS10	-

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System overview

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA27

Basic units





Handle

Stored energy operator

Trip units



Electronic trip unit (ETU)

Accessories









Communication module

Rating plugs

Breaker Connect module

Test devices and breaker data adapters

Main conductor connections



horizontal

Rear vertical/ Rear



broadened

Front extended



Front broadened



Cable lug

Accessories





Phase barriers

Terminal cover

Motors



Spring charging motor

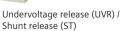
Accessories



Mechanical operating cycles counter (MOC)

Auxiliary releases / closing coils







Closing coil (CC) / Remote reset magnet (RR)

Auxiliary switches

interlocking

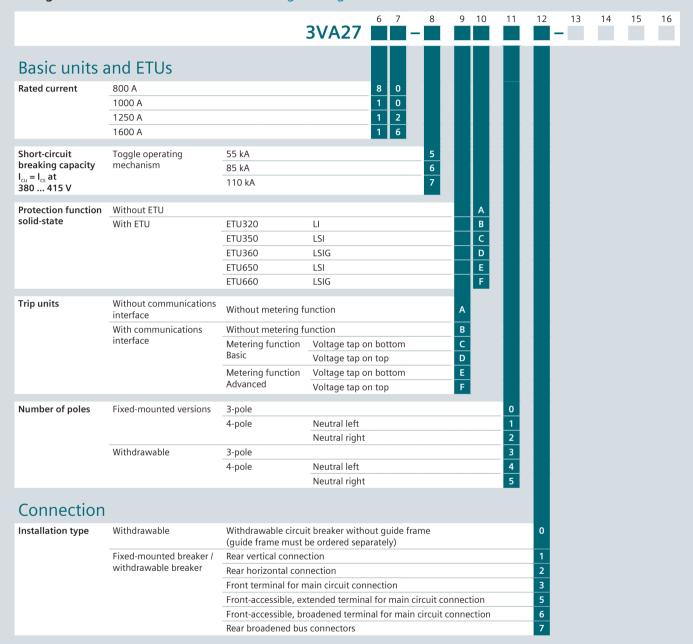


Further accessories Padlockable protective Locking device Locking mechanism Door sealing frame Protective cover Mutual mechanical Manual operator

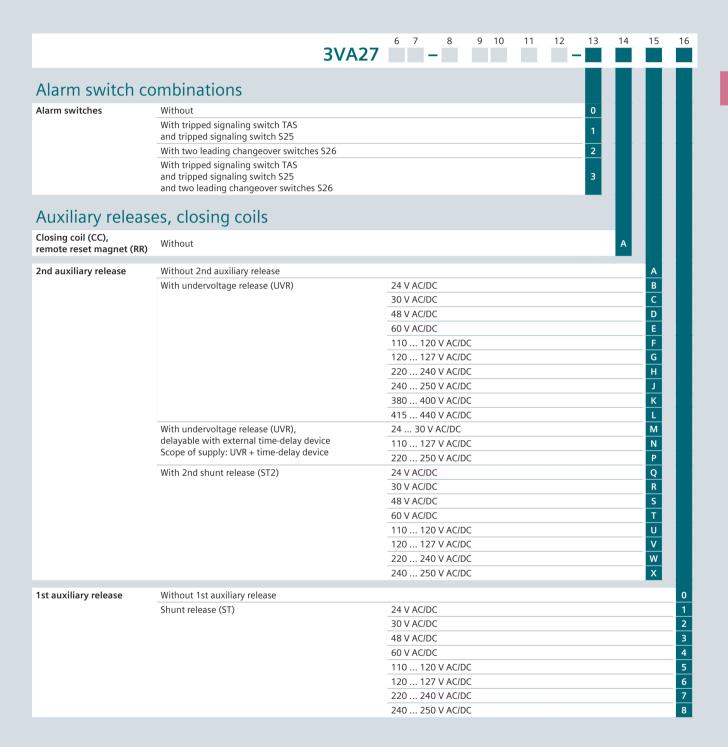
Structure of the article numbers

Basic configuration with toggle operating mechanism \checkmark

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA27



2/65

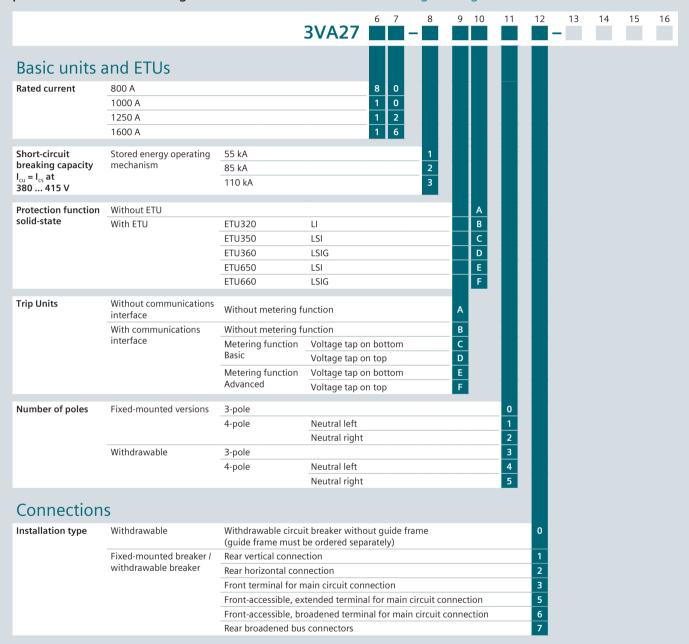


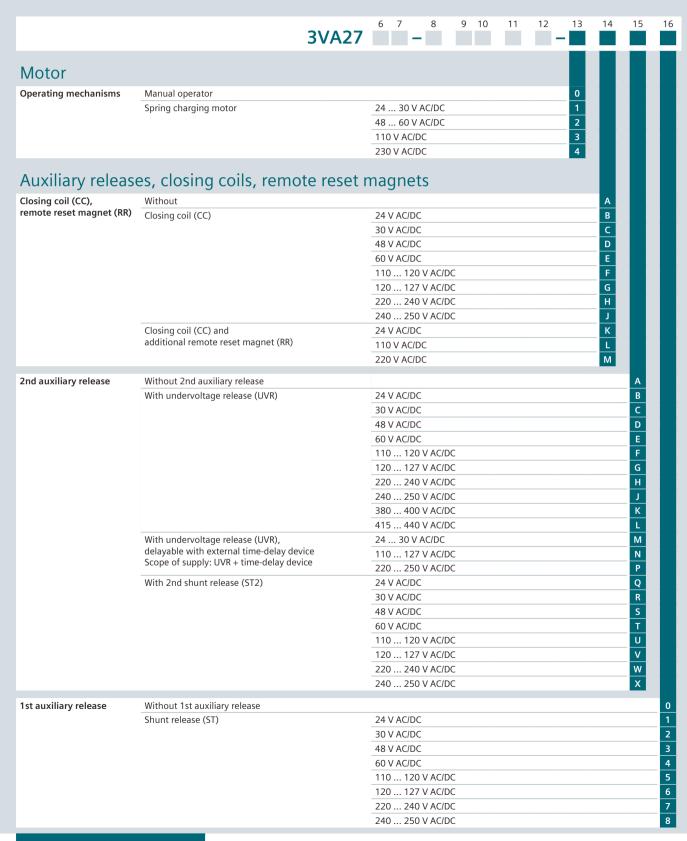
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Structure of the article numbers

Basic configuration with stored energy operating mechanism 9

For a complete and verified configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/configurator-3VA27





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Accessory options

Configure your molded case circuit breaker easily online at

www.siemens.com/lowvoltage/configurator-3VA27

To specify the options, add "-Z" to the complete Article No. and Order code indicate the appropriate order code(s). 3VA27..-...--Z Accessories for basic configuration Mounting options for fixed mounting • In the basic configuration, the fixed-mounted circuit breaker is mounted onto the rear panel. Floor mounting is possible as an option. The device must additionally be modified if it is to be extended to include functionalities such as external auxiliary switches or mechanical interlocks.1) Mounting options for Mounting support standard fixed mounting¹⁾ 5 S ୭ ∡ 6 Mounting support extended 2) <u></u> ⊿ Rear panel mounting onto mounting plate Side wall extended 2) Accessories for electronic trip units ETU Rating plugs The electronic trip units are equipped as standard with a rating plug for setting the rated current In, which is equal to the maximum rated circuit breaker current ($< I_{n \text{ max}}$). The rated current of the selected rating plug must be less than or equal to $I_{n \text{ max}}$ To downrate the circuit breaker, a rated current smaller than $I_{n \text{ max}}$ is selected for the rating plug via a Z option. Other functions can also be activated using rating plugs (L = OFF or Rc protection). Rating plug For setting the rated current In ୭ ∡ В 0 6 630 A В 0 8 800 A ഉ _∠ 1000 A 9 4 0 В 2 1200 A ഉ 4 4 For setting the rated current I_n, with overload For ETU 6-series 400 A 9 2 protection L = OFF 6 0 ඉ 2 630 A 0 8 800 A ൭ 2 0 ര 1000 A 1250 A 9 6 1600 A ഉ G 4 0 For setting the rated current I, For ETU660 only 400 A ഉ For enabling the residual current protection function. G 630 A ഉ 0 The residual current function is only possible with the 800 A ඉ 4 0 MF Advanced metering function. 1250 A ඉ Communication modules Up to 2 different communication modules can be used at the same time. • When using an IOM040 digital I/O module (Z option K56), only 1 communication module can be used. Modbus TCP COM043 Communication modules ୭ ∡ COM042 ৩ ∡ Modbus RTU **Breaker Connect modules** When a circuit breaker with a communications interface is ordered, a Breaker Connect module for external 24 V DC power supply of the electronic components is also supplied ready installed as standard. By means of this Z option, the Breaker Connect module for 24 V DC is replaced by a Breaker Connect module for 110-240 V AC/DC. Breaker Connect module 110 240 V AC/DC 9 4

2 inputs, 2 outputs

IOM040 digital I/O module

୭ ∡

I/O modules internal

I/O modules internal

 $[\]ensuremath{\mathfrak{g}}$ For molded case circuit breakers with stored energy operating mechanism

 $[\]underline{\boldsymbol{\measuredangle}}$ For molded case circuit breakers with toggle operating mechanism

These functionalities can be applied directly to the frame of the withdrawable circuit breaker, without any modification of the side wall.

²⁾ Not possible in connection with or as an alternative to the mounting support, standard (A07).

To specify the options, add "-Z" to the complete Article No. and indicate the appropriate order code(s).					Z	Or	der c	ode
Accessories for	r motors							
5-digit mechanical operat				9	_	С	0	1
5-digit illectianical operat	ang cycles counter					Ĭ	ľ	l
Auxiliary switch	hes and signaling swit	ches						
 Auxiliary and signaling s For currents <100 mA fo The auxiliary/signaling s minimum load above 	witches for currents >100 mA and up to 4 or PLC connections, these auxiliary and sig witches for 24 V DC digital signals are des	400 V AC are installed a				ı		
Position signaling switche	es for guide frames	2 CO 2 CO 2 CO (co	onnected test disconnected position)	9	∡	К	5	5
Signaling switch	Ready-to-close signaling		1 CO contact digital 24 V DC	9	_	К	5	0
	Tripped signaling switch (S24)		1 CO contact digital 24 V DC	9		K	5 5	3
	Spring charged signaling switch (S2	1)	1 CO contact digital 24 V DC	9	-	K	5	4
Auxiliary switch	On / Off AUX	4 CO contacts digital	24 V DC	9	∡	К	5 5	1
							i .	1 1
		2 CO contacts 400 V	AC, and 2 CO contacts digital 24 V DC	9	∠	К	 5	2
Locking, blocki	ing and interlocking	2 CO contacts 400 V	AC, and 2 CO contacts digital 24 V DC	9	∡	K	5	2
Locking, blocki	To prevent movement of	2 CO contacts 400 V .	AC, and 2 CO contacts digital 24 V DC Made by Ronis	9	∡	R	7	8
			Made by Ronis	9		ı		
	To prevent movement of	Cylinder lock For no more than thr	Made by Ronis	9	<u> </u>	R	7	8
Locking devices	To prevent movement of withdrawable circuit breaker	Cylinder lock For no more than thr	Made by Ronis ee 8-mm padlocks	9	∡	R	7 6 7	8
Locking devices Locking mechanism	To prevent movement of withdrawable circuit breaker To prevent movement to disconnec	Cylinder lock For no more than thr ted position Cylinder lock, made b	Made by Ronis ee 8-mm padlocks	9	<u>4</u>	R R R S	7 6 7 0	8 5 9 8
Locking devices Locking mechanism	To prevent movement of withdrawable circuit breaker To prevent movement to disconnec To prevent unauthorized activation	Cylinder lock For no more than thr ted position Cylinder lock, made b	Made by Ronis ee 8-mm padlocks by Ronis adlocks, plastic 4 mm	9 9	<u>∡</u>	R R R S S S	7 6 7 0 2	8 5 9 8 2
Locking devices Locking mechanism	To prevent movement of withdrawable circuit breaker To prevent movement to disconnec To prevent unauthorized activation	Cylinder lock For no more than three ted position Cylinder lock, made befor no more than 3 per section.	Made by Ronis ee 8-mm padlocks by Ronis radlocks, plastic 4 mm radlock, metal 7 mm	9 9 9	<u>4</u>	R R R S	7 6 7 0	8 5 9 8
Locking devices Locking mechanism	To prevent movement of withdrawable circuit breaker To prevent movement to disconnec To prevent unauthorized activation	Cylinder lock For no more than three ted position Cylinder lock, made befor no more than 1 per for no more than 2	Made by Ronis ee 8-mm padlocks by Ronis radlocks, plastic 4 mm radlock, metal 7 mm	9 9 9 9	4 4 - -	R R R S S S S S	7 6 7 0 2	8 5 9 8 2
Locking devices Locking mechanism Locking device	To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF)	Cylinder lock For no more than three ted position Cylinder lock, made befor no more than 1 per for no more than 2	Made by Ronis ee 8-mm padlocks by Ronis eadlocks, plastic 4 mm eadlock, metal 7 mm eadlocks, metal 8 mm eadlocks, plastic 4 mm		4 4 - - -	R R R S S S S	7 6 7 0 2 2	8 5 9 8 2 3
Locking devices Locking mechanism Locking device Padlockable protective	To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF) For mechanical ON and/or OFF on	Cylinder lock For no more than threed position Cylinder lock, made befor no more than 3 per no more than 1 per no more than 2 per no more than 3 p	Made by Ronis ee 8-mm padlocks by Ronis eadlocks, plastic 4 mm eadlock, metal 7 mm eadlocks, metal 8 mm eadlocks, plastic 4 mm eadlocks, metal 7 mm eadlocks, metal 7 mm		∡ ∡ - - - -	R R R S S S S S	7 6 7 0 2 2 2	8 5 9 8 2 3 7
Locking devices Locking mechanism Locking device	To prevent movement of withdrawable circuit breaker To prevent movement to disconnect To prevent unauthorized activation in the operator panel (safe OFF) For mechanical ON and/or OFF on	Cylinder lock For no more than three ted position Cylinder lock, made befor no more than 1 per no more than 2 per no more than 3 per no more than 3 per no more than 2 per no more than 1 per no more than 2 per no more than	Made by Ronis ee 8-mm padlocks by Ronis eadlocks, plastic 4 mm eadlock, metal 7 mm eadlocks, metal 8 mm eadlocks, plastic 4 mm eadlocks, metal 7 mm eadlocks, metal 7 mm		∡ ∡ - - - -	R R R S S S S S S S	7 6 7 0 2 2 2 0	8 5 9 8 2 3 7 2

⁹ For molded case circuit breakers with stored energy operating mechanism

Guide frames

Guide frames for ordering separately without circuit breakers

3VA27



- · Guide frames without breakers up to 1250 A
- Note: All CB bus modules for communication COM04x / IOM300 / Breaker Connect module, as well as
 COMPSS signaling switches are configured without frames in the withdrawable circuit breaker and defined
 there by means of Z options, and are included with the switching device. PSS Standard is always included in
 the frame and can be changed to an electronics-capable signal by means of a Z option.

Number of poles	Connection type	Article No.
3-pole	Rear vertical	3VW8116-7AA01
	Rear horizontal	3VW8116-7AB01
	Front straight bus connectors extended	3VW8116-7AE01
	Broadened bus connectors	3VW8116-7AF01
	Rear broadened bus connectors	3VW8116-7AG01
4-pole	Rear vertical	3VW8116-7BA01
	Rear horizontal	3VW8116-7BB01
	Front straight bus connectors extended	3VW8116-7BE01
	Broadened bus connectors	3VW8116-7BF01
	Rear broadened bus connectors	3VW8116-7BG01

To specify the options, add "-Z" to the complete Article No. and indicate Order code the appropriate order code(s). 3VW8....-....-Z Locking, blocking and interlocking Locking device To prevent movement of Cylinder lock, made by Ronis ୭ ∡ withdrawable circuit breaker ୭ ∡ For no more than 3 8-mm padlocks Locking mechanism To prevent movement to disconnected position (only in combination with R78 or R65) ৩ ∡ Auxiliary/signaling switches Position signaling switch PSS For 24 V DC digital signals, 2 CO | 2 CO | 2 CO (connected | test | disconnected position) for guide frame for minimum currents

Auxiliary and signaling switches for currents >100 mA and up to 400 V AC are installed as standard. For currents <100 mA for PLC connections, these auxiliary and signaling switches can be modified. The auxiliary/signaling switches for 24 V DC digital signals are designed for

- a minimum load above 1 mA at 5 V DC, and
- a maximum breaking capacity of 100 mA at 24 V DC.

⁹ For molded case circuit breakers with stored energy operating mechanism

 $[\]underline{\boldsymbol{\measuredangle}}$ For molded case circuit breakers with toggle operating mechanism

Electronic trip unit ETU and accessories

						3VA27
Electronic trip unit	ts (ETU)					
	Version	With communications / metering function, enhanced protection functions	Туре	Protective function		Article No.
THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	With rotary coding switches	No	ETU320	LIN	9 ∡	3VW9011-5AA00
			ETU350	LSIN	9 ≰	3VW9012-5AA00
			ETU360	LSING	9 🚣	3VW9012-7AA00
740 (8)	With display	Yes	ETU650	LSIN	9 <u>∡</u>	3VW9017-5AA00
			ETU660	LSING	9 ≰	3VW9017-7AA00
Metering function	s for ETU650 or ETU660					
MINE	Description	Protective function / version		Arrangement		Article No.
	Metering function	MF Basic		-	9 <u>∡</u>	3VW9011-0AT01
2		MF Advanced		_	୭ <u>∡</u>	3VW9011-0AT04
O management	Set of cables for voltage tap for MF	For 4-pole circuit breakers with N conductor right		Top or bottom	9 <u>⊀</u>	3VW9011-0AT08
		For 4-pole circuit breakers		Тор	9 ≰	3VW9011-0AT75
		with N conductor left		Bottom	9 ≰	3VW9011-0AT76
		For 3-pole circuit breakers		Тор	9 <u>∡</u>	3VW9011-0AT72
				Bottom	୭ <u>⊀</u>	3VW9011-0AT73
External current tr	ansformers for N conductor					
01/100	Accessory for	Purpose			0 1	Article No.
0.100	ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers			9 ≰	3VW9011-0AA30
External current tr	ansformers for grounded tr	ansformer star points				
	Accessory for	G _{ret} (Ground return)				Article No.
	ETU660	100 A			୭ <u>∡</u>	3VW9011-0GF30
		250 A			9 ∡	3VW9011-0GF31
Summation curren		CT for residual current measureme	ent			
		etering function and Rc rating plug				Article No.
	Accessory for	Purpose For outcome! recidue! current			9 ≰	
	ETU660	For external residual current measurement			9 =	3VW9011-0RC30
Remote reset mag	nets RR for the circuit break	ers including tripped signal				
	Remote reset magnet (RR)	for resetting the circuit breaker after t	ripping as a res	ult of overcurren	t conditions	
	Accessory for	Voltage				Article No.
	ETU320, ETU350, ETU360,	24 V DC			9 -	3VW9011-0AK03
CO.	ETU650, ETU660	110 V AC/DC			9 -	3VW9011-0AK05
		250 V AC/DC			9 –	3VW9011-0AK06
Replacement batte	eries for electronic trip unit	ETU				
	Accessory for					Article No.
	ETU320, ETU350, ETU360, E	TU650, ETU660			<u> </u>	3VW9011-0AT38

- **9** For molded case circuit breakers with stored energy operating mechanism
- riangle For molded case circuit breakers with toggle operating mechanism

Electronic trip unit ETU and accessories

							3VA27
Rated current mo	dules / rating plugs						
	Only one module	Only one module is possible per circuit breaker.					
In =400A	Accessory for Version		Rated current I	n		Article No.	
	ETU320, ETU350,	Rating plugs for setting ($< I_{n \text{ max}}$)		400 A	9	∡	3VW9011-0AA53
	ETU360, ETU650,	the rated current I _n		630 A	9	<u>∡</u>	3VW9011-0AA55
	ETU660			800 A	9	<u>∡</u>	3VW9011-0AA56
				1000 A	9	<u>∡</u>	3VW9011-0AA57
				1250 A	9	∡	3VW9011-0AA58
				1600 A	9	∡	3VW9011-0AA61
	ETU 6-series	Rating plug without overload protection (L = 0	OFF)	400 A	9		3VW9011-0LF53
		and for setting ($<$ I _{n max}) the rated current I _n		630 A	9	<u>∠</u>	3VW9011-0LF55
				800 A	9	∡	3VW9011-0LF56
				1000 A	9	<u>∡</u>	3VW9011-0LF57
				1250 A	9	<u> </u>	3VW9011-0LF58
				1600 A	9	<u> </u>	3VW9011-0LF61
	ETU660	Rating plug Rc for ETU660 for enabling the res	idual	400 A	9		3VW9011-0RC53
		current protection function and setting ($<$ I _{n max}) the rated current I _n . The residual current function is only possible		630 A	9	4	3VW9011-0RC55
				800 A	9	_	3VW9011-0RC56
		with the MF Advanced metering function.		1250 A		_	3VW9011-0RC58
CR hus modules -	communication mod	lules		120011			
	 When using a dig Can only be used breaker. This can interface to the E 	communication modules can be used at the same ital I/O module IOM040 (Z option K56), only 1 co with ETU of the 6-series and require a Breaker Coalso be configured directly on the device by mea TU 6-series is selected.	mmunication Innect modu	le for connection	to th	e circui	
	Communication module	Protocol					Article No.
	COM043	Modbus TCP			9	<u>∡</u>	3VW9011-0AT16
	COM042	Modbus RTU			9	<u>∡</u>	3VW9011-0AT17
CB bus modules -	I/O modules externa	I IOM300					
	 For snapping onto 	o standard mounting rail					
The last of the la	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
	ETU 6-series	 2 A at ≤ 30 V DC 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	11	10	9	∡	3VW9011-0AT20
CB bus modules -	I/O modules internal	IOM040					
7.5	When using a dig	ital I/O module IOM040, only 1 communication n	nodule can b	e used.			
	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
SECTION	ETU 6-series	 2 A at ≤ 30 V DC 0.8 A at 50 V DC 0.2 A at 150 V DC 4 A at 250 V AC 	2	2	9	<u>∡</u>	3VW9011-0AT30

- $\underline{\textbf{9}} \;$ For molded case circuit breakers with stored energy operating mechanism

3VA27 **Actuator modules COM ACT** • For switching the circuit breaker on/off remotely via communication. Actuation of the closing coil (CC) and the 1st shunt release (ST). Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt release. Automatically included if the communications interface of theETU 6-series is selected in the basic circuit breaker configuration. Accessory for Article No. ETU 6-series 3VW9011-0AT10 ഉ Breaker Connect modules • For external power supply for the electronics components Article No. 110 ... 240 V AC/DC ୭ ∡ 3VW9011-0AT06 24 ... 48 V DC ഒ 4 3VW9011-0AT07 Auxiliary contact signals for communications interfaces · Auxiliary contacts for signaling the readiness to close or for position signaling switches of the withdrawable positions. Can only be used in combination with communication module. Can be combined with standard position signaling switches or ready-to-close signaling contacts. Note: Both signaling switches are automatically included in the basic circuit breaker (COM PSS only with withdrawable versions) if the communications interface of the ETU 6-series is selected. Function Article No. Ready-to-close signaling switch for communication (COM RTC) 9 3VW9011-0AT11 Position signaling switch COM PSS (for withdrawable breaker only) 9 ∡ 3VW9011-0AT12 Test devices and breaker data adapters • Usable for all ETU 3-series and 6-series Description Article No. Test device TD310 ඉ <u>∡</u> 3VW9011-0AT32 · For the trip test via ETU and tripping solenoid including release • Activation of the ETU and the tripping solenoid by means of a battery built into the test device • On activation in the ETU 6-series, the parameters can be configured on the Breaker data adapter TD410 3VW9011-0AT34 As gateway for parameterization of the ETU with powerconfig • For generation of a report of the set parameters with powerservice Test device and breaker data adapter TD420 **9** 🔏 3VW9011-0AT33 As gateway for parameterization of the ETU with powerconfig - Testing a tripping operation using powerconfig For use with the powerservice software Testing of the basic protection functions LSING Testing of the enhanced protection functions Test data storage Readout of ETU buffer Generation of a report of the set parameters

- For molded case circuit breakers with stored energy operating mechanism
- ${\color{red} oldsymbol{\angle}}$ For molded case circuit breakers with toggle operating mechanism

Accessories for connection and insulation

torminals	for main circuit conn	octions acc to IEC 60047.3			
terminals		ections acc. to IEC 60947-2 17-2 for 3VA27 up to 1600 A (dependi	ng on application condit	ions)	
		eparately for top and bottom	ng on application condit	10113)	
	Version	Description	Mounting onto	Number of poles / quantity	y Article No.
	Fixed-mounted	Front terminals for main circuit	-	3-pole / 3 units 🧕 📥	3VW9011-0AL01
49 00		connection		4-pole / 4 units 9 👱	3VW9011-0AL02
		Extended main terminals,	Front terminals	3-pole / 3 units	3VW9011-0AL77
		including insulation plate and phase barriers, standard	for main circuit connection	4-pole / 4 units 9 ≤	3VW9011-0AL78
		Broadened main terminals, including insulation plate and extended phase barriers	Front terminals for main circuit connection, top	3-pole / 3 units	3VW9011-0AL73
			Front terminals for main circuit connection, bottom	3-pole / 3 units 9 ∠	3VW9011-0AL75
			Front terminals for main circuit connection, top/bottor	4-pole / 4 units ೨ ∠	3VW9011-0AL74
0 00	Withdrawable	Front-accessible terminals for	Guide frame flange	3-pole / 3 units ೨ ∠	3VW9011-0AN01
		main circuit connection		4-pole / 4 units 9 4	3VW9011-0AN02
		Broadened main circuit	Front-accessible	3-pole / 3 units ೨ ∡	3VW9011-0AN73
59		connections	terminals for main circuit connection	4-pole / 4 units	3VW9011-0AN74
terminals f	or main circuit conne	ctions acc. to IEC 60947-2			
		7-2 for 3VA27 up to 1600 A (dependi eparately for top and bottom	ng on application condit	ions)	
	Fixing	Version	Mounting onto	Number of poles / quantity	y Article No.
	Fixed-mounted	Rear terminals for main circuit	-	3-pole / 3 units ೨ ∠	3VW9011-0AL32
		connection, rotatable for horizontal / vertical connection Including terminal cover		4-pole / 4 units	3VW9011-0AL33
4 44	Withdrawable	Rear terminals for main circuit	-	3-pole / 3 units	3VW9011-0AN32
		connection, rotatable for		4-pole / 4 units 9 👱	3VW9011-0AN33
		horizontal / vertical connection Including terminal cover			
			Rear horizontal main	3-pole / 3 units	3VW9011-0AN75
		Including terminal cover	Rear horizontal main connections	3-pole / 3 units	3VW9011-0AN75
	nections acc. to IEC 6	Including terminal cover Broadened main terminals			
	 Acc. to IEC 6094 	Including terminal cover Broadened main terminals	connections	4-pole / 4 units	
l cable con	 Acc. to IEC 6094 	Including terminal cover Broadened main terminals 0947-2 17-2 for 3VA27 up to 1600 A (dependi	connections	4-pole / 4 units	3VW9011-0AN76
	Acc. to IEC 6094To be ordered se	Including terminal cover Broadened main terminals 10947-2 17-2 for 3VA27 up to 1600 A (dependicular top and bottom Version Circular conductor terminals	connections ng on application condit Mounting onto Front terminals	4-pole / 4 units	3VW9011-0AN76
	Acc. to IEC 6094To be ordered seFixing	Including terminal cover Broadened main terminals 0947-2 67-2 for 3VA27 up to 1600 A (dependi eparately for top and bottom Version	connections ng on application condit Mounting onto	4-pole / 4 units	3VW9011-0AN76
	Acc. to IEC 6094To be ordered seFixing	Including terminal cover Broadened main terminals 0947-2 17-2 for 3VA27 up to 1600 A (dependice parately for top and bottom Version Circular conductor terminals 4 x 240 mm² for front cable connection, including insulation plate and high,	ng on application condit Mounting onto Front terminals for main circuit	4-pole / 4 units	3VW9011-0AN76 y Article No. 3VW9011-0AL71

 $[\]underline{\textbf{9}} \;$ For molded case circuit breakers with stored energy operating mechanism

3VA27 Auxiliary supply connectors in push-in version · Auxiliary conductor terminal in push-in version for upgrading fixed-mounted breakers and guide frames. • The device is always fitted at the factory with the exact number of auxiliary conductor terminals required. Article No. Push-in <u> ∡</u> 3VW9011-0AB11 Terminal covers for fixed circuit breakers • Finger-proof for front terminals for main circuit connection for fixed-mounting Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately. Version Number of poles / quantity Article No. Standard 3-pole / 2 units 9 ∡ 3VW9723-0WD30 4-pole / 2 units 9 ∡ 3VW9724-0WD40 3VW9723-0WF30 Extended 3-pole / 2 units ඉ <u>∡</u> 4-pole / 2 units ඉ ∡ 3VW9724-0WF40 Phase barriers for fixed breakers · Necessary isolation measures are always supplied with the corresponding connection technology and do not need to be ordered separately • For operating voltages >440 V AC the use of phase barriers is mandatory; up to 440 V AC their use is optional. Number of poles / quantity Height Article No. 100 mm (standard) 9 ∡ 3VW9723-0WA00 3-pole / 4 units 4-pole / 6 units 9 3VW9724-0WA10 2 ୭ ∡ 3VW9723-0WA01 200 mm (extended) 3-pole / 4 units 4-pole / 6 units 9 🚄 3VW9724-0WA11 Supports for mounting the fixed-mounted breakers on the floor · For fixed-mounted versions only **Purpose** Article No. Mounting support standard ୭ ∡ 3VW9011-0BB51 (circuit breaker feet) (= Z option A07) Mounting support extended • Fixation for external auxiliary switches AUX 15 CO 3VW9011-0BB52 (circuit breaker feet) (3VW9011-0AG15) Locking mechanism for control cabinet door, direct including mechanical trans-(for 3VW9011-0BB10) mission of switch position on circuit breaker side panel • Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), (= Z option S56) Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21) Extension kits for modification of the side wall of the fixed-mounted breakers · For fixed-mounted breakers only · Rear fixation on mounting plate • For modification for mechanical transmission of switch position on circuit breaker side panel (= Z option S57) **Purpose** Article No. Extension kit for side wall • Fixation for external auxiliary switches AUX 15 CO ୭ ∡ 3VW9011-0BB53 (3VW9011-0AG15) Locking mechanism for control cabinet door, direct (for 3VW9011-0BB10) Locking mechanism for control cabinet door, Bowden cable (for 3VW9011-0BB16), Mutual mechanical interlocking to 3WL/3VA (for 3VW9011-0BB21)

- For molded case circuit breakers with stored energy operating mechanism

Motor operators and manual operators

					3VA27
Spring charging m	otor (MO)				
A 10	Description		Version		Article No.
	For automatic charging of the stored energy operating		24 30 V AC/DC	9 –	3VW9011-0AF01
	mechanism		48 60 V AC/DC	9 –	3VW9011-0AF02
			100 130 V AC/DC	9 –	3VW9011-0AF03
			220 250 V AC/DC	9 –	3VW9011-0AF04
Mechanical operat	ing cycles counter MOC				
	Description		Version		Article No.
00000	Only possible in combinatio motor.	n with a spring charging	5 digits	9 –	3VW9011-0AH07
Manual operators	for circuit breakers with to	ggle operating mechanisi	n		
	Description	Version	Color		Article No.
	Front rotary operating	Standard	Gray	- <u>-</u>	3VW9727-0EK11
	mechanism incl. door sealing frame	EMERGENCY STOP	Yellow-red	- <u>4</u>	3VW9727-0EK15
	Door mounted rotary	Standard	Gray	- 👱	3VW9727-0FK21
	operator	EMERGENCY STOP	Yellow-red	- <u>4</u>	3VW9727-0FK25
		Basic without handle		- ≰	3VW9727-0GK00
		Shaft stub		- <u>4</u>	8UD1900-3WD00
		Handle	Gray	- <u>-</u>	8UD1861-0AB11
			Yellow-red	- ∡	8UD1861-0AB15

 $[\]underline{\textbf{9}} \;$ For molded case circuit breakers with stored energy operating mechanism

Auxiliary release, closing coil

3VA27 Closing coils / shunt releases CC / ST Version Article No. 24 V AC/DC 3VW9011-0AD01 30 V AC/DC 3VW9011-0AD02 48 V AC/DC 3VW9011-0AD03 60 V AC/DC 3VW9011-0AD04 110 ... 120 V AC/DC 3VW9011-0AD05 120 ... 127 V AC/DC 3VW9011-0AD06 220 ... 240 V AC/DC 3VW9011-0AD07 240 ... 250 V AC/DC 3VW9011-0AD08 380 ... 400 V AC 3VW9011-0AD17 415 ... 440 V AC 3VW9011-0AD18 TD320 function test units for closing coils / shunt releases · The TD320 test unit allows the operational availability and functions of the closing coils and shunt releases with a rated operational voltage between 24 V and 250 V (AC and DC) to be tested. The operational availability test is performed cyclically at intervals of 30 seconds. The unit has visual indicators in the form of LEDs on the front in order to display the following states: LED POWER ON LIT: Correct function of the YO/YC test unit LED DEACTIVATION LIT: Power supply failure, wire break - LED SHORT-CIRCUIT LIT: Winding short-circuit LED DEACTIVATION and SHORT-CIRCUIT FLASHING: Incorrect power supply LED DEACTIVATION and SHORT-CIRCUIT OFF: Closing coil / shunt release OK Description Article No. For all closing coils / shunt releases ඉ 3VW9011-0AT31 Auxiliary / signaling switches • The auxiliary/signaling switches for 24 V DC digital signals are designed for a minimum load above 1 mA at 5 V DC, and a maximum breaking capacity of 100 mA at 24 V DC. For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification. Description Article No. Version Ready-to-close signal RTC 1 CO standard 3VW9011-0AH01 1 CO digital 3VW9011-0AH02 4 CO standard Auxiliary switch ON/OFF AUX 3VW9011-0AG01 4 CO digital 3VW9011-0AG02 2 CO standard + 2 CO digital 3VW9011-0AG03 External auxiliary switch ON/OFF AUX 15 CO standard 3VW9011-0AG05 15 CO digital 3VW9011-0AG06 Tripped signaling switch S24 1 CO standard 3VW9011-0AH14 3VW9011-0AH15 Spring charged signaling switch S21 1 CO standard 3VW9011-0AH10 1 CO digital 3VW9011-0AH08 Position signaling switches PSS 2 CO | 2 CO | 2 CO 3VW9011-0AH11 (only with draw-out versions) (connected | test | disconnected position) standard 2 CO | 2 CO | 2 CO ୭ ∡ 3VW9011-0AH12

(connected | test | disconnected position) digital

- 9 For molded case circuit breakers with stored energy operating mechanism

Auxiliary release, closing coil

3VA27 Auxiliary / signaling switches for toggle operating mechanisms · Auxiliary and signaling switches are each offered in two versions: Standard version for currents >100 mA and up to 400/250 V AC, Minimum load above 100 mA at 24 V DC Maximum breaking capacity 5 A at 250 V AC Digital version for currents <100 mA for PLC connections, minimum load above 1 mA at 5 V DC, and maximum breaking capacity of 100 mA at 24 V DC For external auxiliary switches ON/OFF AUX 15 CO, a 3VW9011-0AG1x fixation must be ordered in addition, and for fixed-mounted breakers a 3VW9011-0BB5x side wall modification. Description Version Article No. Trip alarm switch TAS signals the trip position 1 CO standard - <u>Z</u> 3VW9727-0AB11 irrespective of the tripping reason 1 CO digital 3VW9727-0AB13 Tripped signaling switch via auxiliary release S25 signals 1 CO standard 3VW9727-0AB41 tripping operations via auxiliary releases (UVR, ST) in 1 CO digital 3VW9727-0AB43 UVR/ST2 pocket Leading auxiliary switch S26 (2 units) 1 NO standard, 250 V AC 3VW9727-0AA21 4 Fixation for external auxiliary switches AUX 15 CO • External auxiliary switches ON/OFF AUX 15 CO must be ordered separately. Article No. For fixed-mounted breakers with rear panel or floor mounting 3VW9011-0AG15 (in combination with Z option S56 or S57) For guide frames 9 ∡ 3VW9011-0AG17 Undervoltage releases UVR Version Article No. 24 V AC/DC 3VW9011-0AE01 30 V AC/DC 3VW9011-0AE02 48 V AC/DC 3VW9011-0AE03 60 V AC/DC 3VW9011-0AE04 110 ... 120 V AC/DC 3VW9011-0AE05 120 ... 127 V AC/DC 3VW9011-0AE06 220 ... 240 V AC/DC 3VW9011-0AE07 240 ... 250 V AC/DC 3VW9011-0AE08 380 ... 400 V AC 9 ∡ 3VW9011-0AE17 415 ... 440 V AC ඉ <u>∡</u> 3VW9011-0AE18 External time-delay devices for undervoltage releases • With adjustable delay time from 0.5 to 3 s. · Suitable for mounting onto DIN rail. Article No. 24 ... 30 V AC/DC 3VW9011-0AE10 48 V AC/DC 3VW9011-0AE11 60 V AC/DC 3VW9011-0AE15 110 ... 127 V AC/DC 3VW9011-0AE12 220 ... 250 V AC/DC 3VW9011-0AE13

- **9** For molded case circuit breakers with stored energy operating mechanism
- $\underline{\boldsymbol{\measuredangle}}$ For molded case circuit breakers with toggle operating mechanism

Interlocking

				3VA27
ocking devices t	to prevent movement of the withdrawal	ble circuit breakers		
	Version			Article No.
	Ronis cylinder lock (replacement for R78)		9 ∡	3VW9011-0BA80
	Padlock 8 mm (replacement for R65), for	no more than 3 padlocks	9 <u>4</u>	3VW9011-0BA87
ocking mechani		rawable circuit breakers in disconnected p		
	Only possible as a supplement in conju-	unction with R78 (3VW9011-0BA80) and/or R65	(3VW9011-0BA87).	
	Description			Article No.
	Locking mechanism (replacement for R79	9)	9 <u>∡</u>	3VW9011-0BA84
ocking devices i	n OFF position			
	For fixed-mounted versions and withd			
	To prevent unauthorized activation in The disconnector unit fulfills the condi	tne operator panel (safe OFF) itions for a supply disconnecting (isolating) devi	ice acc. to EN 60204-1	
-	Description	101 d supply disconnecting (isolating) devi	22 000, 10 211 0020 11.	Article No.
	Cylinder lock, made by Ronis (replacemen	nt for S08)	<u>9</u> –	3VW9011-0BA33
5	cymiaer roek, made by nomb (replacemen	10.1300)	_	SVW3011 GB/ISS
ocking devices i	in OFF position			
	For fixed-mounted versions and withdTo prevent unauthorized activation in			
	Description	Version		Article No.
	Padlock 4 mm (replacement for S22)	Plastic for no more than 3 locks	9 –	3VW9011-0BA41
	Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock	9 –	3VW9011-0BA42
	Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks	9 –	3VW9011-0BA44
cking devices i	in OFF position for toggle operating med	chanisms with rotary operators		
	 To prevent unauthorized activation in 	the case of molded case circuit breakers with ro	tary operator	
	Description			Article No.
	For Ronis		- <u>4</u>	3VW9727-0VL10
cking devices i	in OFF position for toggle operating med	chanisms without rotary operators		
	To prevent unauthorized activation in molded case circuit breakers without r	· · · · · · · · · · · · · · · · · · ·		
	Description			Article No.
	For padlocks		- <u>∡</u>	3VW9727-0LB10
	For Ronis		- ∡	3VW9727-0LF10
	ective covers ON/OFF on the operator page	anels		
adlockable prot				Article No.
adlockable prot	Description	Version		Article No.
adlockable prot	Padlock 4 mm (replacement for S42)	Version Plastic for no more than 3 locks	9 -	3VW9011-0BA22
adlockable prot			9 - 9 -	

- **9** For molded case circuit breakers with stored energy operating mechanism
- **∠** For molded case circuit breakers with toggle operating mechanism

Interlocking

					3VA27		
Protective covers	s for mechanical ON/OFF						
1 940	Mechanical ON/OFF tNot lockable.	o protect against unintentio	nal actuation on the operator panel.				
	Description				Article No.		
	Not lockable (replaceme	ent for S41)		9 –	3VW9011-0BA21		
Mutual mechani	cal interlocking						
£0	 Mutual mechanical in 	terlocking with Bowden cab	le 2 m				
	Fixing	Mounting			Article No.		
是机	Fixed-mounted	Rear panel or floor mo	ounting	9 ∡	3VW9011-0BB21		
	Withdrawable	Mounting onto guide	frame	9 <u>∡</u>	3VW9011-0BB22		
Bowden cables,	separate						
	 One required for each 	n circuit breaker					
	Variant				Article No.		
	1000 mm				3VW9011-0BB23		
	2000 mm				3WL9111-0BB45-0AA0		
	3000 mm				3WL9111-0BB46-0AA0		
Locking mechan	isms to prevent opening	of the control cabinet do	ors in ON position				
2	 To prevent opening of the control cabinet door in ON position It additionally prevents the circuit breaker from being closed when the control cabinet door is open. 						
() ·	Fixing		Version		Article No.		
	Fixed mounting on side	panel or floor	Direct fixed interlocking	<u> </u>	3VW9011-0BB10		
			Locking with Bowden cable	9 ∡	3VW9011-0BB16		
	Withdrawable		Direct fixed interlocking	9 ∡	3VW9011-0BB14		
Ë			Locking with Bowden cable	9 <u>∡</u>	3VW9011-0BB18		
Door sealing fran	mes IP30						
	 For IP4x and higher, y 	ou must order the protectiv	e cover IP54 3VW9011-0AP03 or 3VW901	1-0AP13.			
	Description	Fixing	Version		Article No.		
	Replacement part	Fixed-mounted	IP3x	9 ∡	3VW9011-0AP01		
	for Z option T30.	Withdrawable	IP3x	9 –	3VW9011-0AP02		
				- 📥	3VW9011-0AP04		
Protective covers	s IP54						
•	 For implementing de 	grees of protection IP4x and	unted breakers and withdrawable breaker IP54 when installing in switchboard door. e and door mounted rotary operator.				
	Description		Version		Article No.		
	Lock with unique key		IP54	<u> </u>	3VW9011-0AP03		
	Lock with standard key		IP54	9 🚄	3VW9011-0AP13		

- $\ensuremath{\mathfrak{G}}$ For molded case circuit breakers with stored energy operating mechanism

3VL up to 1600 A, IEC



3VL molded case circuit breaker



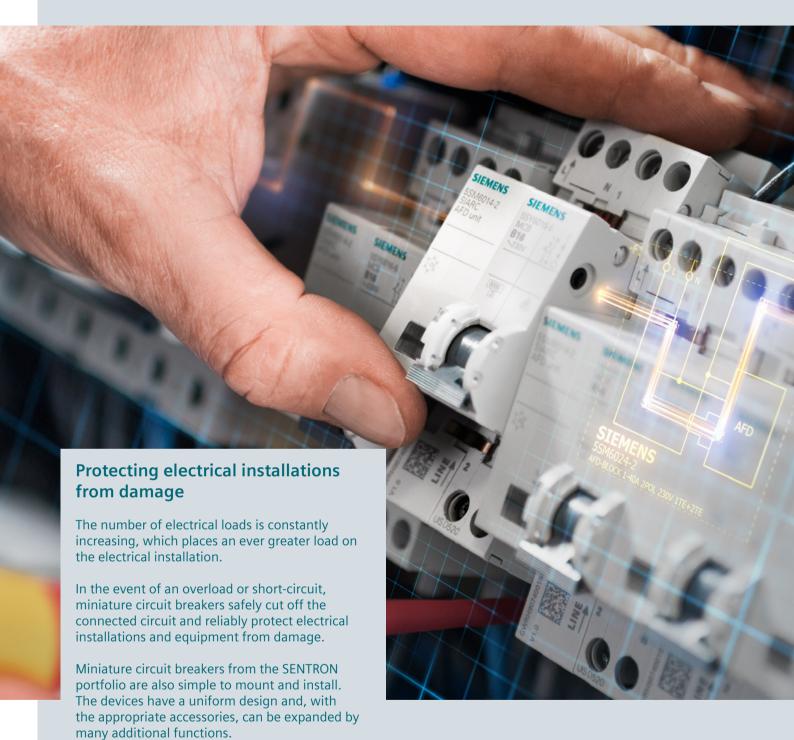
Product Discontinuation

The 3VL molded case circuit breaker up to 1600 A IEC will only be able to be ordered as a spare part from 10/2020, and will be removed from the order portfolio from 10/2025.

Documents available for downloading:

You can find comprehensive information on the 3VL molded case circuit breaker in the catalog excerpt.

3VL molded case circuit breaker (109769073)



For industry, buildings or infrastructure – with our versatile portfolio, you will find a suitable miniature circuit breaker for any application.

Miniature Circuit Breakers



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A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about miniature circuit breakers, please visit our website www.siemens.com/mcb www.siemens.com/protection-concept

Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical basic information SENTRON protection concept (109767456)
- Technology primer Miniature circuit breakers (109482304)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Siemens YouTube channel

Our video range

• Miniature circuit breakers (general) bit.ly/2kJP2Dq



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• Miniature circuit breakers sie.ag/2kTFXI5

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/lowvoltage/cax



Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

Configuration manual Miniature circuit breakers (45302792)



$oldsymbol{\mathbb{Q}}$ The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

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You can find further information on services at www.siemens.com/service-catalog



Training and tutorials

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

Protection concept (WT-LVBPC)



Technical overview of miniature circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on miniature circuit breakers www.siemens.com/lowvoltage/product-support (109769082)

Devices for all applications

Miniature circuit breakers for basic applications



Ideal for standard applications

The 5SL miniature circuit breakers are the new standard with B and C tripping characteristics for applications up to 63 A. They can be used to disconnect or isolate equipment.

The 5SL devices are mainly installed in meter panels and small distribution boards to protect circuits for lamps, cookers and even machines, for example, in residential or commercial buildings.

Miniature circuit breakers for advanced applications



Ideal for industrial applications

For circuits with motors or large lamps, semiconductors or strong pulse-generating equipment such as transformers and solenoid valves - the 5SY and 5SP devices are optimized for industrial applications and are proven in use.

The 5SY devices offer you top quality and functionality for installation in complex buildings and industry. With a rated breaking capacity of up to 25 kA, they are able to handle the most challenging requirements at a rated current of 0.3 to 80 A.

Special features

- Dual-chamber terminals
- Simple to detach without tools using sliding catches
- Separate switching position indication
- A wide range of accessories

Device protection switches for advanced applications



Ideal for devices in industry

Device protection switches from Siemens offer optimum protection for all applications in AC and DC control circuits in industrial applications and plant engineering.

Electronic device protection switches are optimally suited to protecting, for example, relays, programmable controllers, motors, sensors, actuators and valves. A current analysis in conjunction with fast tripping in the event of a fault avoid the danger of overloading the switched-mode power supply.

Thermomagnetic device protection switches are used to protect solenoid valves, servo motors, signal lamps or even PLC inputs. Everywhere where loads have to be precisely protected from overloads and short-circuits.

System overview

Basic units and accessories

Miniature circuit breakers for basic applications



Miniature circuit breakers for advanced applications



Device protection switches for advanced applications



Electromechanical accessories



Mechanical accessories



Busbars and accessories



Miniature circuit breakers

For basic applications for buildings and infrastructure





			5SL3	5SL6
Standards				
Standards			IEC/EN 60898-1	IEC/EN 60898-1
Basic data				
Breaking capacity I _{cn} for AC (22	30/400 V) acc. to IEC/EN 60898-1 AC	kA	4.5	6
Rated current		А	0.3 63	0.3 63
Number of poles			1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N
Tripping characteristic			B C	B C
Approvals				
General product approvals			VDE, CEBEC, TSE	VDE, CEBEC, TSE
Marine classifications			_	-
Operational voltage				
Max. AC, acc. to EN 60898-1/-	2, EN 60947-2	V	250/440	250/440
Max. DC per pole, acc. to EN 6	0898-1/-2, EN 60947-2	V	60	60
Max. AC, acc. to UL 1077, CSA	C22.2 No.235	V	_	-
Rated voltage AC, acc. to UL 4	89	V	_	-
Rated impulse withstand volta	ge U _{imp}	kV	4	4
Rated frequency f _n		Hz	50/60	50/60
Connection				
Dual-chamber terminal			-	-
Conductor cross-section	Solid/stranded	mm²	0.75 35	0.75 35
1 wire	Finely stranded with end sleeve	mm²	0.75 25	0.75 25
	Finely stranded without end sleeve	mm²	1 35	1 35
Conductor cross-section	Solid/stranded	mm²	0.75 10	0.75 10
2 wires (same cross-section	Finely stranded with end sleeve	mm²	0.75 4	0.75 4
and same conductor type)	Finely stranded without end sleeve	mm²	1 4	1 4
Conductor cross-section	Solid/stranded	mm²	10 25	10 25
1-wire + busbar	Finely stranded with non-insulated end sleeve	mm²	6 25	6 25
(pin thickness 1.5 mm)	Finely stranded with insulated end sleeve	mm²	6 16	6 16
Ambient conditions				
Ambient temperature		°C	−25 +45 ¹)	-25 +45 ¹⁾
Storage temperature		°C	-40 +75 ³⁾	-40 +75 ³⁾
Shock acc. to IEC 60068-2-27	150 m/s² at 11 ms half-sine		-	-
Resistance to vibrations acc. to at 25 \dots 150 Hz and 60 m/s ² at			-	-
Resistant to shock and vibration acc. to EN 61373 and EN 5015			-	-
Fire behavior of materials acc. (fire protection on railway veh			-	-
Pollution degree for overvoltage	ge category		2/III	2/111
More information				
Catalog LV 10			See page 3/12	See page 3/14

 $^{^{1)}}$ Periodically +55 °C, max. 95% humidity $^{2)}$ Max. 95% humidity $^{3)}$ 95% humidity up to 55 °C











5SL4	5SJ6KS	5SL30	5SL60	5SP3
IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	DIN VDE 0641-21
10		4.5	6	-
10	6	4.5		
0.3 63	10 20	2 40	2 40	16 100
1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 1P+N	1P+N C	1P+N	1P 2P 3P 4P
B C D	B C	C	B C	Е
VDE, CEBEC, IMQ	VDE	VDE, IMQ, NF, CCC	VDE, IMQ, NF, CCC	VDE
- -	-	-	DNV-GL	-
			DITT OF	
250/440	250/440	250	250	-
60	60	72	72	_
-	-	-	-	_
-	-	-	-	_
4	4	4	4	4
50/60	50/60	50/60	50/60	50/60
-	Plug-in terminal on outgoing side	-	-	-
0.75 35	1.5 4 (top) 0.75 25 (bottom)	0.75 16	0.75 16	2.5 50 (bottom)
0.75 25	1.5 2.5 (top) 0.75 25 (bottom)	0.75 10	0.75 10	2.5 50 (bottom)
1 35	1.5 4			2.5 16 (top)
0.75 10	-	-	-	-
0.75 4	-	-	-	-
1 4	-		-	_
10 25	-	-	-	-
6 25	-	-	-	-
6 16	-	-	-	-
25 .55.2)	25451)	25 . 45 1)	25451)	25 .55
-25 +55 ²⁾ -40 +75 ³⁾	-25 +45 ¹⁾	-25 +45 ¹⁾	-25 +45 ¹⁾	-25 +55
-40 +/5 ^{-/}	-40 +75 ³⁾	-40 +75	-40 +75 -	-40 +70 -
	_	_	_	-
_	_	_	_	-
-	-	-	-	-
-	_	_	_	-
2/111	2/111	2/III	2/111	3/IV
		2/22		
See page 3/16	See page 3/18	See page 3/20	See page 3/22	See page 3/24

System overview, page 3/5 Siemens LV 10 · 10/2019 3/7

Miniature circuit breakers

For advanced applications for buildings and infrastructure and for industry and machine manufacturing





				5SY6	5SY4
Standards					
Standards				IEC/EN 60898-1 IEC/EN 60947-2 UL 1077	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
Basic data					
Breaking capacity I _{cn} for AC	(230/400 V) acc. to IEC/EN	60898-1 AC	kA	6	10
Rated breaking capacity I _{cu}		I _n 0.32 A	kA	30 30	35 35
acc. to IEC/EN 60947-2 at 1		I _n 3 6 A	kA	30 30	35 35
(1P, 1P+N) (2P, 3P, 4P, 3P	'+N)	I _n 810 A	kA	15 15	20 20
		I _n 1332 A	kA	15 15	20 20
		I _n 40 A	kA	10 10	15 15
		I _n 5063 A	kA	10 10	15 15
		I _n 80125 A	kA	-1-	10 10
Rated current			А	0.3 63	0.3 80
Number of poles				1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N
Tripping characteristic				B C	A B C D
Approvals					
General product approvals				VDE, IMQ, CCC,	VDE, IMQ, CCC,
				c FN °us	c FU °us
Marine classifications				DNV-GL, LR, BV, RINA, ABS	DNV-GL, LR, BV, RINA, ABS
Operational voltage					
Max. AC	Acc. to EN 60898-1/-2, EN	l 60947-2	V	250/440	250/440
	Acc. to UL 1077, CSA C22	.2 No.235	V	277/480	277/480
Max. DC per pole	Acc. to EN 60898-1/-2, EN	l 60947-2	V	72 ¹⁾	72 ¹⁾
Rated voltage AC	Acc. to UL 489		V	-	-
Rated impulse withstand vo	oltage U _{imp}		kV	4	4
Rated frequency f _n			Hz	50/60	50/60
Connection					
Dual-chamber terminal				•	•
Conductor cross-section	Solid/stranded		mm²	0.75 35	0.75 35
1 wire	Finely stranded, with end	sleeve	mm²	0.75 25	0.75 25
	Conductors (Cu 60/75 °C	$I_n \le 40 \text{ A}; 60 ^{\circ}\text{C I}_n > 40 \text{ A})$		AWG 18 4	AWG 18 4
Ambient conditions					
Ambient temperature			°C	−25 +55 ⁴⁾	-40 +70 ³⁾
Storage temperature			°C	-40 +75 ³⁾	–40 +75 ³⁾
Shock acc. to IEC 60068-2-	27 150 m/s ² at 11 ms half-sir	ne		•	•
Resistance to vibrations acc at 25 150 Hz and 60 m/s ²	c. to IEC 60068-2-6 50 m/s ² at 35 Hz (4 s)			•	•
Resistant to shock and vibr acc. to EN 61373 and EN 5	ations 0155 "1B" (railway engineeri	ng)		-	•
Fire behavior of materials a (fire protection on railway				-	•
Pollution degree for overvo	oltage category			3/III	3/III ²⁾
More information					
Catalog LV 10				See page 3/26	See page 3/28

 $^{^{1)}}$ Exempt: C/D 0.3 A ... 0.5 A $^{2)}$ 5SY54.. 4-pole, degree of pollution 2 for overvoltage category II $^{3)}$ 95% humidity up to 55 $^{\circ}\text{C}$

⁴⁾ Max. 95% humidity











5SP4	5SY5	5SY7	5SY8	5SJ4HG
IEC/EN 60898-1 UL 1077	IEC/EN 60898-2 UL 1077	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077	IEC/EN 60947-2 UL 1077	IEC/EN 60947-2 UL 489
10	10	15	25	
- -	- -	50 50	70 70	10
- -	- -	40 40	50 50	10
- -	- -	30 30	40 40	10
- -	-1-	25 25	30 30	10
- -	- -	20 20	25 25	10
- -	- -	15 15	20 20	10
10 10	- -	-1-	-1-	
80 125	0.3 63	0.3 63	0.3 63	0.3 63
1P 2P 3P 4P	1P 2P 4P	1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P
B C D	B C	B C D	C D	B C D
VDE, CCC,	VDE, CCC,	VDE, IMQ, CCC,	c % us	VDE, CCC,
c '911 °us	c '91 0'us	c SL °us		(4)
LR	ABS	DNV-GL, LR, BV, RINA, ABS	ABS	-
250/440	250/440	250/440	250/440	250/440
277/480	-	277/480	277/480	-
72	250	72 ¹⁾	72 ¹⁾	60
-	-	-	-	277/480
4	4	4	4	4
50/60	50/60	50/60	50/60	50/60
	•	•	•	•
10 50	0.75 35	0.75 35	0.75 35	-
10 35	0.75 25	0.75 25	0.75 25	-
AWG 3 1	AWG 18 4	AWG 18 4	AWG 18 4	-
-25 +55 ⁴⁾	-40 +70 ³⁾	-40 +70 ³⁾	-25 +55 ⁴⁾	-25 +55 ⁴⁾
-40 +75 ³⁾	-40 +75 ³⁾	-40 +75 ³⁾	-40 +75 ³⁾	-40 +75 ³⁾
_	•		-	
•				•
-			-	-
•	•	•	-	-
3/III	3/III	3/III	3/III	3/III
37111	37111	3/111	3/111	3/111
See page 3/30	See page 3/32	See page 3/34	See page 3/36	See page 3/38
see page 3/30	see page 3/32	see page 3/34	see page 3/30	see page 3/30

System overview, page 3/5

Device protection switches

For advanced applications for industry and machine manufacturing



			••
			5SY17
Standards			33117
Standards			IEC 60934
			UL 1077
Basic data			
Breaking capacity I _{cn}	for AC (230/400 V) acc. to IEC/EN 60898-1 AC	kA	3
Rated current		Α	0.5 16
Number of poles			1P+AS
DC tripping	Magnetic		F1 (2.5 $4 \times I_n$) F2 (4 $7 \times I_n$)
	Thermal		1.05 × holding current 1.35 × tripping current TC3 1.35 × I_n
	Electronic		-
Service life	Actuations		6000
Approvals			
General product approvals			CCC, c X) us
Operational voltage			
Max. AC	Acc. to EN 60898-1/-2, EN 60947-2	V	250
	Acc. to UL 1077, CSA C22.2 No.235	V	277
Max. DC per pole		V	72
Rated impulse withstand voltage U _{in}	np	kV	4
Rated frequency f _n		Hz	50/60
Connection			
Dual-chamber terminal			-
Conductor cross-section 1 wire	Solid/stranded	mm²	0.75 16
	Finely stranded with end sleeve	mm²	0.75 10
	Finely stranded with insulated end sleeve	mm²	0.75 10
	Finely stranded without end sleeve	mm²	0.75 16
	Conductor cross-section AWG		-
2-wire (same cross-section)	Solid/stranded	mm²	0.75 4
	Finely stranded with end sleeve	mm²	0.75 2.5
	Finely stranded with insulated end sleeve	mm²	0.75 1.5
	Finely stranded without end sleeve	mm²	0.75 4
Ambient conditions			
Ambient temperature		°C	−25 +60
Storage temperature		°C	-40 +70
Shock acc. to IEC 60068-2-27 150 m	n/s ² at 11 ms half-sine		-
Resistance to vibrations acc. to IEC 6 at 25 150 Hz and 60m/s^2 at 35 Hz			-
Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B	" (railway engineering)		-
Fire behavior of materials acc. to EN (fire protection on railway vehicles)	45545-2		-
Pollution degree for overvoltage cat	egory Acc. to IEC		2/III
More information			
Catalog LV 10			See page 3/40

¹⁾ Max. 95% humidity



5SK9

EN 61000-6-2, EN 61000-6-3, EN 60068-2-78, EN 50178, EN 60068-2-6, EN 60068-2-27, UL 508, UL 2367

-
1 8
1P+AS
-
-
Overload 1.2 × 1. / 1s Short-circuit 2 × 1. / < 10 ms

Overload 1.2 × I_n / 1s | Short-circuit 2 × I_n / <10 ms

ev î/R o
-
-
30
0.5
-
<u> </u>
0.2 4
0.2 2.5
0.2 2.5
-
AWG 24 12
<u>-</u>
-
-
-
−25 +60 ¹⁾
-40 +70
-
-

System overview, page 3/5

See page 3/41

5SL3 miniature circuit breakers

5SL3108-7

5SL3110-7

5SL3113-7

5SL3116-7

5SL3120-7

5SL3125-7

5SL3132-7

5SL3140-7

5SL3150-7

5SL3163-7

5SL3510-6

5SL3513-6

5SL3516-6

5SL3520-6

5SL3525-6

5SL3532-6

5SL3540-6

5SL3550-6

5SL3563-6

5SL3110-6

5SL3113-6

5SL3116-6

5SL3120-6

5SL3125-6

5SL3132-6

5SL3140-6

5SL3150-6

5SL3163-6

4.5 kA

8 A

10 A

13 A

16 A

20 A

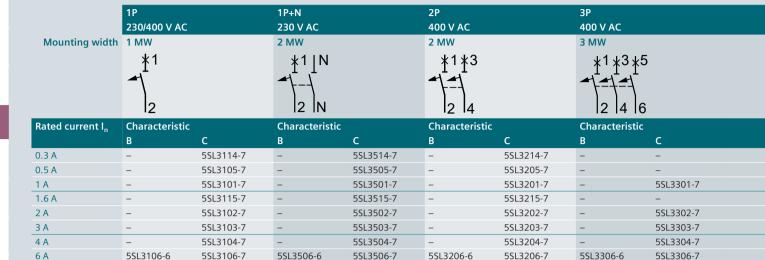
25 A

32 A

40 A

50 A

63 A



5SL3508-7

5SL3510-7

5SL3513-7

5SL3516-7

5SL3520-7

5SL3525-7

5SL3532-7

5SL3540-7

5SL3550-7

5SL3563-7

5SL3210-6

5SL3213-6

5SL3216-6

5SL3220-6

5SL3225-6

5SL3232-6

5SL3240-6

5SL3250-6

5SL3263-6

5SL3208-7

5SL3210-7

5SL3213-7

5SL3216-7

5SL3220-7

5SL3225-7

5SL3232-7

5SL3240-7

5SL3250-7

5SL3263-7

5SL3310-6

5SL3316-6

5SL3320-6

5SL3325-6

5SL3332-6

5SL3340-6

5SL3350-6

5SL3363-6

5SL3310-7

5SL3316-7

5SL3320-7

5SL3325-7

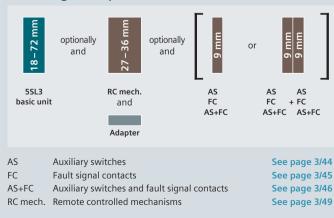
5SL3332-7

5SL3340-7

5SL3350-7

5SL3363-7

Mounting concept





3P+N	4P
400 V AC	400 V AC
4 MW	4 MW
*1 *3 *5 N	*1 *3 *5 *7 2 4 6 8
Characteristic	Characteristic

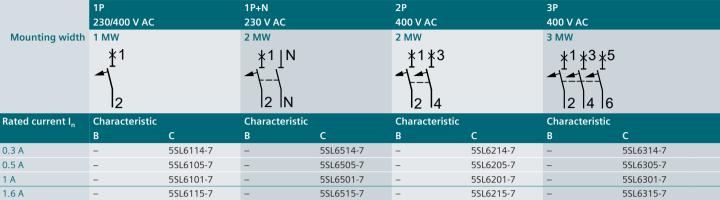
Characteristic		Characteristic	
В	С	В	С
-	-	-	-
-	-	-	-
_	5SL3601-7	-	5SL3401-7
-	-	-	-
_	5SL3602-7	-	5SL3402-7
_	5SL3603-7	-	5SL3403-7
-	5SL3604-7	-	5SL3404-7
5SL3606-6	5SL3606-7	-	5SL3406-7
_	5SL3608-7	-	-
5SL3610-6	5SL3610-7	-	5SL3410-7
5SL3613-6	5SL3613-7	-	5SL3413-7
5SL3616-6	5SL3616-7	-	5SL3416-7
5SL3620-6	5SL3620-7	-	5SL3420-7
5SL3625-6	5SL3625-7	-	5SL3425-7
5SL3632-6	5SL3632-7	-	5SL3432-7
5SL3640-6	5SL3640-7	-	5SL3440-7
5SL3650-6	5SL3650-7	-	5SL3450-7
5SL3663-6	5SL3663-7	-	5SL3463-7

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)	Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022

Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
Remote controlled mech	Article No.	
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapters for remote con	Article No.	
1–2 MW		5ST3820-6
3–4 MW		5ST3820-7

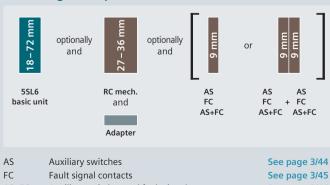
5SL6 miniature circuit breakers

6 kA



0.5 A 1 A 1.6 A 5SL6102-6 5SL6102-7 5SL6502-7 5SL6202-7 5SL6302-7 5SL6503-7 5SL6203-7 3 A 5SL6103-7 5SL6303-7 4 A 5SL6104-6 5SL6104-7 5SL6504-7 5SL6204-7 5SL6304-7 6 A 5SL6106-6 5SL6106-7 5SL6506-6 5SL6506-7 5SL6206-6 5SL6206-7 5SL6306-6 5SL6306-7 8 A 5SL6108-7 5SL6508-7 5SL6208-7 5SL6308-7 5SL6510-7 5SL6210-6 10 A 5SL6110-6 5SL6110-7 5SL6510-6 5SL6210-7 5SL6310-6 5SL6310-7 13 A 5SL6113-6 5SL6113-7 5SL6513-6 5SL6513-7 5SL6213-6 5SL6213-7 5SL6313-6 5SL6313-7 16 A 5SL6116-6 5SL6116-7 5SL6516-6 5SL6516-7 5SL6216-6 5SL6216-7 5SL6316-6 5SL6316-7 20 A 5SL6120-6 5SL6120-7 5SL6520-6 5SL6520-7 5SL6220-6 5SL6220-7 5SL6320-6 5SL6320-7 5SL6125-6 25 A 5SL6125-7 5SL6525-6 5SL6525-7 5SL6225-6 5SL6225-7 5SL6325-6 5SL6325-7 32 A 5SL6132-6 5SL6132-7 5SL6532-6 5SL6532-7 5SL6232-6 5SL6232-7 5SL6332-6 5SL6332-7 40 A 5SL6140-6 5SL6140-7 5SL6540-6 5SL6540-7 5SL6240-6 5SL6240-7 5SL6340-6 5SL6340-7 50 A 5SL6150-6 5SL6150-7 5SL6550-6 5SL6550-7 5SL6250-6 5SL6250-7 5SL6350-6 5SL6350-7 63 A 5SL6163-6 5SL6163-7 5SL6563-6 5SL6563-7 5SL6263-6 5SL6263-7 5SL6363-6 5SL6363-7

Mounting concept



AS+FC Auxiliary switches and fault signal contacts

See page 3/46

See page 3/49 RC mech. Remote controlled mechanisms



3P+N	4P
400 V AC	400 V AC
4 MW	4 MW
*1 *3 *5 IN 12 4 6 N	*1 *3 *5 *7 2 4 6 8
Characteristic	Characteristic

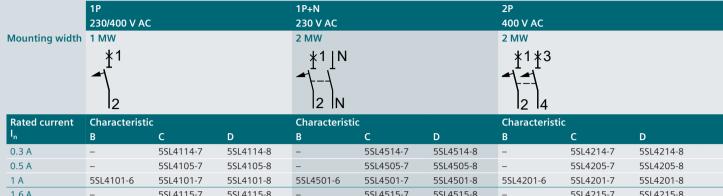
Characteristic		Characteristic	
В	C	В	C
-	5SL6614-7	-	5SL6414-7
-	5SL6605-7	-	5SL6405-7
-	5SL6601-7	-	5SL6401-7
-	5SL6615-7	-	5SL6415-7
-	5SL6602-7	-	5SL6402-7
-	5SL6603-7	-	5SL6403-7
-	5SL6604-7	-	5SL6404-7
5SL6606-6	5SL6606-7	5SL6406-6	5SL6406-7
_	5SL6608-7	_	5SL6408-7
5SL6610-6	5SL6610-7	5SL6410-6	5SL6410-7
5SL6613-6	5SL6613-7	5SL6413-6	5SL6413-7
5SL6616-6	5SL6616-7	5SL6416-6	5SL6416-7
5SL6620-6	5SL6620-7	5SL6420-6	5SL6420-7
5SL6625-6	5SL6625-7	5SL6425-6	5SL6425-7
5SL6632-6	5SL6632-7	5SL6432-6	5SL6432-7
5SL6640-6	5SL6640-7	5SL6440-6	5SL6440-7
5SL6650-6	5SL6650-7	5SL6450-6	5SL6450-7
5SL6663-6	5SL6663-7	5SL6463-6	5SL6463-7

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022

Auxiliary switches and fa	ault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062	
Remote controlled mech	anisms (RC mech.)	Article No.
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapters for remote con	Article No.	
1–2 MW	5ST3820-6	
3-4 MW		5ST3820-7

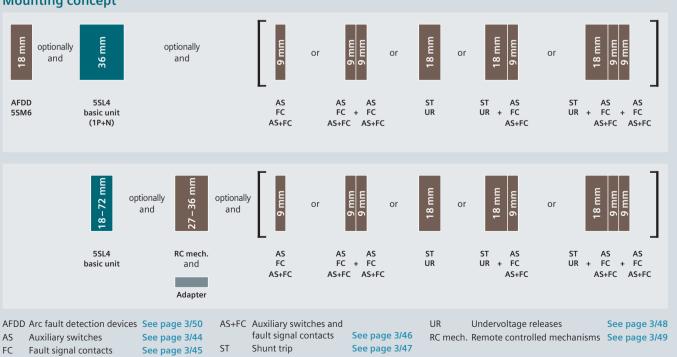
5SL4 miniature circuit breakers

10 kA



Rated current	Characterist	IC .		Characterist	IC .		Characteris	LIC		
I _n	В	С	D	В	С	D	В	C	D	
0.3 A	_	5SL4114-7	5SL4114-8	-	5SL4514-7	5SL4514-8	-	5SL4214-7	5SL4214-8	
0.5 A	-	5SL4105-7	5SL4105-8	-	5SL4505-7	5SL4505-8	-	5SL4205-7	5SL4205-8	
1 A	5SL4101-6	5SL4101-7	5SL4101-8	5SL4501-6	5SL4501-7	5SL4501-8	5SL4201-6	5SL4201-7	5SL4201-8	
1.6 A	-	5SL4115-7	5SL4115-8	-	5SL4515-7	5SL4515-8	_	5SL4215-7	5SL4215-8	
2 A	5SL4102-6	5SL4102-7	5SL4102-8	5SL4502-6	5SL4502-7	5SL4502-8	5SL4202-6	5SL4202-7	5SL4202-8	
3 A	5SL4103-6	5SL4103-7	5SL4103-8	5SL4503-6	5SL4503-7	5SL4503-8	5SL4203-6	5SL4203-7	5SL4203-8	
4 A	5SL4104-6	5SL4104-7	5SL4104-8	5SL4504-6	5SL4504-7	5SL4504-8	5SL4204-6	5SL4204-7	5SL4204-8	
6 A	5SL4106-6	5SL4106-7	5SL4106-8	5SL4506-6	5SL4506-7	5SL4506-8	5SL4206-6	5SL4206-7	5SL4206-8	
8 A	5SL4108-6	5SL4108-7	5SL4108-8	5SL4508-6	5SL4508-7	5SL4508-8	5SL4208-6	5SL4208-7	5SL4208-8	
10 A	5SL4110-6	5SL4110-7	5SL4110-8	5SL4510-6	5SL4510-7	5SL4510-8	5SL4210-6	5SL4210-7	5SL4210-8	
13 A	5SL4113-6	5SL4113-7	5SL4113-8	5SL4513-6	5SL4513-7	5SL4513-8	5SL4213-6	5SL4213-7	5SL4213-8	
16 A	5SL4116-6	5SL4116-7	5SL4116-8	5SL4516-6	5SL4516-7	5SL4516-8	5SL4216-6	5SL4216-7	5SL4216-8	
20 A	5SL4120-6	5SL4120-7	5SL4120-8	5SL4520-6	5SL4520-7	5SL4520-8	5SL4220-6	5SL4220-7	5SL4220-8	
25 A	5SL4125-6	5SL4125-7	5SL4125-8	5SL4525-6	5SL4525-7	5SL4525-8	5SL4225-6	5SL4225-7	5SL4225-8	
32 A	5SL4132-6	5SL4132-7	5SL4132-8	5SL4532-6	5SL4532-7	5SL4532-8	5SL4232-6	5SL4232-7	5SL4232-8	
40 A	5SL4140-6	5SL4140-7	5SL4140-8	5SL4540-6	5SL4540-7	5SL4540-8	5SL4240-6	5SL4240-7	5SL4240-8	
50 A	5SL4150-6	5SL4150-7	5SL4150-8	5SL4550-6	5SL4550-7	5SL4550-8	5SL4250-6	5SL4250-7	5SL4250-8	
63 A	5SL4163-6	5SL4163-7	5SL4163-8	5SL4563-6	5SL4563-7	5SL4563-8	5SL4263-6	5SL4263-7	5SL4263-8	

Mounting concept





3P			3P+N			4P		
400 V AC			400 V AC			400 V AC		
3 MW			4 MW			4 MW		
*1*3*5 12 4 6			*1 *3 *5 12 4 6	J ^M T _M		*1 *3 *5 12 4 6	<u></u> ∤7 \ 8	
Characteristic			Characteristic			Characteristic		
В	С	D	В	С	D	В	С	D
-	5SL4314-7	5SL4314-8	-	5SL4614-7	5SL4614-8	-	5SL4414-7	5SL4414-8
-	5SL4305-7	5SL4305-8	-	5SL4605-7	5SL4605-8	-	5SL4405-7	5SL4405-8
5SL4301-6	5SL4301-7	5SL4301-8	5SL4601-6	5SL4601-7	5SL4601-8	5SL4401-6	5SL4401-7	5SL4401-8
-	5SL4315-7	5SL4315-8	-	5SL4615-7	5SL4615-8	-	5SL4415-7	5SL4415-8
5SL4302-6	5SL4302-7	5SL4302-8	5SL4602-6	5SL4602-7	5SL4602-8	5SL4402-6	5SL4402-7	5SL4402-8
5SL4303-6	5SL4303-7	5SL4303-8	5SL4603-6	5SL4603-7	5SL4603-8	5SL4403-6	5SL4403-7	5SL4403-8
5SL4304-6	5SL4304-7	5SL4304-8	5SL4604-6	5SL4604-7	5SL4604-8	5SL4404-6	5SL4404-7	5SL4404-8
5SL4306-6	5SL4306-7	5SL4306-8	5SL4606-6	5SL4606-7	5SL4606-8	5SL4406-6	5SL4406-7	5SL4406-8
5SL4308-6	5SL4308-7	5SL4308-8	5SL4608-6	5SL4608-7	5SL4608-8	5SL4408-6	5SL4408-7	5SL4408-8
5SL4310-6	5SL4310-7	5SL4310-8	5SL4610-6	5SL4610-7	5SL4610-8	5SL4410-6	5SL4410-7	5SL4410-8
5SL4313-6	5SL4313-7	5SL4313-8	5SL4613-6	5SL4613-7	5SL4613-8	5SL4413-6	5SL4413-7	5SL4413-8
5SL4316-6	5SL4316-7	5SL4316-8	5SL4616-6	5SL4616-7	5SL4616-8	5SL4416-6	5SL4416-7	5SL4416-8
5SL4320-6	5SL4320-7	5SL4320-8	5SL4620-6	5SL4620-7	5SL4620-8	5SL4420-6	5SL4420-7	5SL4420-8
5SL4325-6	5SL4325-7	5SL4325-8	5SL4625-6	5SL4625-7	5SL4625-8	5SL4425-6	5SL4425-7	5SL4425-8
5SL4332-6	5SL4332-7	5SL4332-8	5SL4632-6	5SL4632-7	5SL4632-8	5SL4432-6	5SL4432-7	5SL4432-8
5SL4340-6	5SL4340-7	5SL4340-8	5SL4640-6	5SL4640-7	5SL4640-8	5SL4440-6	5SL4440-7	5SL4440-8
5SL4350-6	5SL4350-7	5SL4350-8	5SL4650-6	5SL4650-7	5SL4650-8	5SL4450-6	5SL4450-7	5SL4450-8
5SL4363-6	5SL4363-7	5SL4363-8	5SL4663-6	5SL4663-7	5SL4663-8	5SL4463-6	5SL4463-7	5SL4463-8

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC))	Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
Shunt trip (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

Undervoltage releases (l	JR)		Article No.
With integrated	230 V AC		5ST3040
auxiliary switch	110 V DC		5ST3041
	24 V DC		5ST3042
Without integrated	230 V AC		5ST3043
auxiliary switch	110 V DC		5ST3044
	24 V DC		5ST3045
Remote controlled mech	anisms (RC	mech.)	Article No.
Basic	12 30 \	V AC, 12 48 V DC	5ST3053
	177 27	'0 V AC	5ST3054
Power	12 30 \	V AC, 12 48 V DC	5ST3055
	177 27	'0 V AC	5ST3056
Power with ARD	12 30 \	V AC, 12 48 V DC	5ST3057
	177 27	'0 V AC	5ST3058
Power with extended function	12 30 \	V AC, 12 48 V DC	5ST3070
Adapters for remote con	trolled me	chanisms (RC mech.)	Article No.
1–2 MW			5ST3820-6
3–4 MW			5ST3820-7
Arc fault detection device	es (AFDD)		Article No.
For basic units 1P+N (2 M		I _n up to 16 A	5SM6021-2
not in combination with R	Cuanala	I _n up to 40 A	5SM6024-2

System overview, page 3/5

5SJ6...-.KS miniature circuit breakers

6 kA – plug-in terminal on outgoing side



Mounting width	1P 230/400 V AC 1 MW *1		1P+N 230/400 V AC 2 MW *1 N		2P 230/400 V AC 2 MW *1*3		3P 230/400 V AC 3 MW *1 *3 *5	
	$\frac{1}{2}$		1 1 N		1 10		2 4 6	
Rated current I _n	Characteristic		Characteristic		Characteristic		Characteristic	
	В	С	В	С	В	С	В	С
10 A	5SJ6110-6KS	5SJ6110-7KS	5SJ6510-6KS	5SJ6510-7KS	5SJ6210-6KS	5SJ6210-7KS	5SJ6310-6KS	5SJ6310-7KS
13 A	5SJ6113-6KS	5SJ6113-7KS	5SJ6513-6KS	5SJ6513-7KS	5SJ6213-6KS	5SJ6213-7KS	5SJ6313-6KS	5SJ6313-7KS
16 A	5SJ6116-6KS	5SJ6116-7KS	5SJ6516-6KS	5SJ6516-7KS	5SJ6216-6KS	5SJ6216-7KS	5SJ6316-6KS	5SJ6316-7KS
20 A	5SJ6120-6KS	5SJ6120-7KS	5SJ6520-6KS	5SJ6520-7KS	5SJ6220-6KS	5SJ6220-7KS	5SJ6320-6KS	5SJ6320-7KS

3

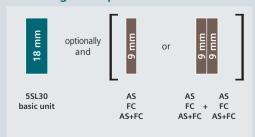
System overview, page 3/5 Siemens LV 10 · 10/2019 3/19

5SL30 miniature circuit breakers

1P+N 4.5 kA compact miniature circuit breakers

	1P+N (N pole right) 230 V AC	1P+N (N pole left) 230 V AC
Mounting width	2 MW	2 MW
	<u>*</u> 1 N <u>-</u> 1 2 N	N ±1 N 2
Rated current I _n	Characteristic	Characteristic
	С	С
2 A	5SL3002-7	5SL3002-7KL
4 A	5SL3004-7	5SL3004-7KL
6 A	5SL3006-7	5SL3006-7KL
8 A	5SL3008-7	5SL3008-7KL
10 A	5SL3010-7	5SL3010-7KL
13 A	5SL3013-7	5SL3013-7KL
16 A	5SL3016-7	5SL3016-7KL
20 A	5SL3020-7	5SL3020-7KL
25 A	5SL3025-7	5SL3025-7KL
32 A	5SL3032-7	5SL3032-7KL
40 A	5SL3040-7	5SL3040-7KL

Mounting concept



AS Auxiliary switches FC Fault signal contacts

AS+FC Auxiliary switches and fault signal contacts

See page 3/44 See page 3/45 See page 3/46



Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

Fault signal contacts (FC)	Article No.
1 NO + 1 NC	5ST3020
2 NO	5ST3021
2 NC	5ST3022
Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062

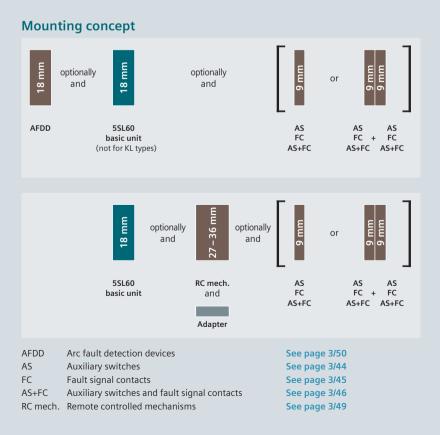
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5SL60 miniature circuit breakers

1P+N 6 kA compact miniature circuit breakers







Auxiliary switches (AS)	Auxiliary switches (AS)			
1 NO + 1 NC	Standard	5ST3010		
	For low power	5ST3013		
	For low power (with diode)	5ST3013-0XX01		
2 NO	Standard	5ST3011		
	For low power	5ST3014		
2 NC	Standard	5ST3012		
	For low power	5ST3015		
1 CO	Standard	5ST3016		
Fault signal contacts (FC	:)	Article No.		
1 NO + 1 NC		5ST3020		
2 NO		5ST3021		
2 NC		5ST3022		
Auxiliary switches and f	ault signal contacts (AS+FC)	Article No.		
1 CO (AS) + 1 CO (FC)		5ST3062		

Remote controlled mecha	Article No.	
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapters for remote cont	rolled mechanisms (RC mech.)	Article No.
1 MW		5ST3820-6
Arc fault detection device	Article No.	
For basic units 2P (1 MW),	I _n up to 16 A	5SM6011-2
not for KL types	I _n up to 40 A	5SM6014-2

System overview, page 3/5

5SP3 selective main miniature circuit breakers (SHU)



25 kA, mounting on a 40 mm busbar

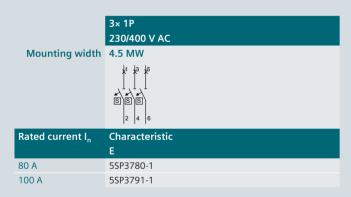


Rated current I _n	Characteristic E	Characteristic E			
	L1	L2	L3	L1+L2+L3	
16 A	5SP3716-2KK01	5SP3716-2KK02	5SP3716-2KK03	5SP3716-2	5SP3816-2
20 A	5SP3720-2KK01	5SP3720-2KK02	5SP3720-2KK03	5SP3720-2	5SP3820-2
25 A	5SP3725-2KK01	5SP3725-2KK02	5SP3725-2KK03	5SP3725-2	5SP3825-2
35 A	5SP3735-2KK01	5SP3735-2KK02	5SP3735-2KK03	5SP3735-2	5SP3835-2
40 A	5SP3740-2KK01	5SP3740-2KK02	5SP3740-2KK03	5SP3740-2	5SP3840-2
50 A	5SP3750-2KK01	5SP3750-2KK02	5SP3750-2KK03	5SP3750-2	5SP3850-2
63 A	5SP3763-2KK01	5SP3763-2KK02	5SP3763-2KK03	5SP3763-2	5SP3863-2

Specific accessories

25 kA, mounting on a 40 mm busbar





Busbar adapters • For fitting 5SP37..-1 SHU circuit breakers • Plug-on **Busbar spacing** Article No. 40 mm 5ST1328 Breaker blocking covers Article No. Purpose To prevent manual switching OFF 5ST1318 Operating protective covers (spare part) • Multiple locking options against accidental and intentional operation With padlock With Phillips screwdriver With special wrench (Antilux) These can be installed by the operator or the power utility • 3 units included with the main miniature circuit breaker (SHU) 5SP37..-1 Version Article No. Transparent 5ST1323 · Terminal covers in compliance with cladding dimensions acc. to DIN 43880 • 2 units required per device Article No.

5ST1316



25 kA, mounting on a mounting rail

	1P	3× 1P	2P	3P	4P
	230/400 V AC				
Mounting width	1.5 MW	4.5 MW	3 MW	4.5 MW	6 MW
	*1 \$\sqrt{1}\$	\$1 \$2 \$5 \$\sum_2 4 \\ 6 \end{array}\$	\$1 \$3 S S 2 4	*1 *1 *1 S S S 2 2 2	\$\frac{1}{3} \frac{1}{5} \frac
Rated current I	Characteristic	Characteristic	Characteristic	Characteristic	Characteristic
"	E	E	E	E	E
16 A	E 5SP3716-3	E 5SP3816-3	E 5SP3216-3	E 5SP3316-3	
"					Е
16 A	5SP3716-3	5SP3816-3	5SP3216-3	5SP3316-3	5SP3416-3
16 A 20 A	5SP3716-3 5SP3720-3	5SP3816-3 5SP3820-3	5SP3216-3 5SP3220-3	5SP3316-3 5SP3320-3	5SP3416-3 5SP3420-3
16 A 20 A 25 A	5SP3716-3 5SP3720-3 5SP3725-3	5SP3816-3 5SP3820-3 5SP3825-3	5SP3216-3 5SP3220-3 5SP3225-3	5SP3316-3 5SP3320-3 5SP3325-3	5SP3416-3 5SP3420-3 5SP3425-3
16 A 20 A 25 A 35 A	5SP3716-3 5SP3720-3 5SP3725-3 5SP3735-3	5SP3816-3 5SP3820-3 5SP3825-3 5SP3835-3	5SP3216-3 5SP3220-3 5SP3225-3 5SP3235-3	5SP3316-3 5SP3320-3 5SP3325-3 5SP3335-3	5SP3416-3 5SP3420-3 5SP3425-3 5SP3435-3

25 kA, mounting on a mounting rail or 40 mm busbar



Specific accessories

Specific	accessories	
Mounting	plates	
120	 For mounting on standard mounting rails according to EN 50022 For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm 	
-Aria		Article No.
		5ST1322
Busbar ada	apters	
	For fitting 3 5SP37 SHU circuit breakersPlug-on	
	Busbar spacing	Article No.
W VI	40 mm	5ST1328
Breaker bl	ocking covers	
	Purpose	Article No.
	To prevent manual switching OFF	5ST1318
Operating	protective covers (spare part)	
0	Multiple locking options against accidental and intentional operation With padlock With Phillips screwdriver With special wrench (Antilux) These can be installed by the operator or the power utility	
	Version	Article No.
	Transparent	5ST1323
Terminal c	overs	
	 Terminal covers in compliance with cladding dimensions acc. to DIN 43880 2 units required per device 	
		Article No.
		5ST1316

System overview, page 3/5

5SY6 miniature circuit breakers

6 kA

	1P	1P+N	2P	3P
	230/400 V AC	230 V AC	400 V AC	400 V AC
Mounting width	1 MW	2 MW	2 MW	3 MW
	* 1	*1 N	*1* 3	*1 *3 *5
		4-1		
	$)_2$	2 N	2 4	2 4 6
Rated current I _n	Characteristic	Characteristic	Characteristic	Characteristic

Rated current I _n	Characteristic		Characteristic		Characteristic		Characteristic	
	В	С	В	С	В	С	В	С
0.3 A	-	5SY6114-7	-	5SY6514-7	-	5SY6214-7	-	5SY6314-7
0.5 A	_	5SY6105-7	_	5SY6505-7	_	5SY6205-7	_	5SY6305-7
1 A	_	5SY6101-7	-	5SY6501-7	_	5SY6201-7	_	5SY6301-7
1.6 A	-	5SY6115-7	-	5SY6515-7	-	5SY6215-7	-	5SY6315-7
2 A	5SY6102-6	5SY6102-7	-	5SY6502-7	-	5SY6202-7	-	5SY6302-7
3 A	-	5SY6103-7	-	5SY6503-7	-	5SY6203-7	-	5SY6303-7
4 A	5SY6104-6	5SY6104-7	-	5SY6504-7	-	5SY6204-7	-	5SY6304-7
5 A	-	5SY6111-7	-	-	-	5SY6211-7	-	5SY6311-7
6 A	5SY6106-6	5SY6106-7	5SY6506-6	5SY6506-7	5SY6206-6	5SY6206-7	5SY6306-6	5SY6306-7
8 A	-	5SY6108-7	-	5SY6508-7	-	5SY6208-7	-	5SY6308-7
10 A	5SY6110-6	5SY6110-7	5SY6510-6	5SY6510-7	5SY6210-6	5SY6210-7	5SY6310-6	5SY6310-7
13 A	5SY6113-6	5SY6113-7	5SY6513-6	5SY6513-7	5SY6213-6	5SY6213-7	5SY6313-6	5SY6313-7
15 A	-	5SY6118-7	-	-	-	5SY6218-7	-	5SY6318-7
16 A	5SY6116-6	5SY6116-7	5SY6516-6	5SY6516-7	5SY6216-6	5SY6216-7	5SY6316-6	5SY6316-7
20 A	5SY6120-6	5SY6120-7	5SY6520-6	5SY6520-7	5SY6220-6	5SY6220-7	5SY6320-6	5SY6320-7
25 A	5SY6125-6	5SY6125-7	5SY6525-6	5SY6525-7	5SY6225-6	5SY6225-7	5SY6325-6	5SY6325-7
30 A	-	5SY6130-7	-	-	-	5SY6230-7	-	5SY6330-7
32 A	5SY6132-6	5SY6132-7	5SY6532-6	5SY6532-7	5SY6232-6	5SY6232-7	5SY6332-6	5SY6332-7
40 A	5SY6140-6	5SY6140-7	5SY6540-6	5SY6540-7	5SY6240-6	5SY6240-7	5SY6340-6	5SY6340-7
50 A	5SY6150-6	5SY6150-7	5SY6550-6	5SY6550-7	5SY6250-6	5SY6250-7	5SY6350-6	5SY6350-7
63 A	5SY6163-6	5SY6163-7	5SY6563-6	5SY6563-7	5SY6263-6	5SY6263-7	5SY6363-6	5SY6363-7

Mounting concept



AFDD Arc fault detection devices See page 3/50 AS Auxiliary switches Fault signal contacts

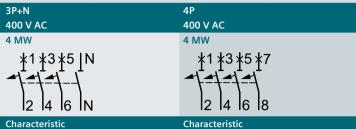
See page 3/44 See page 3/45 AS+FC Auxiliary switches and fault signal contacts Shunt trip

See page 3/46 See page 3/47

Undervoltage releases RC mech. Remote controlled mechanisms See page 3/49

FC





Characteristic		Characteristic	
В	С	В	С
-	5SY6614-7	-	5SY6414-7
-	5SY6605-7	-	5SY6405-7
_	5SY6601-7	-	5SY6401-7
-	5SY6615-7	-	5SY6415-7
_	5SY6602-7	-	5SY6402-7
_	5SY6603-7	_	5SY6403-7
_	5SY6604-7	-	5SY6404-7
-	-	-	-
5SY6606-6	5SY6606-7	5SY6406-6	5SY6406-7
-	5SY6608-7	-	5SY6408-7
5SY6610-6	5SY6610-7	5SY6410-6	5SY6410-7
5SY6613-6	5SY6613-7	5SY6413-6	5SY6413-7
-	-	-	-
5SY6616-6	5SY6616-7	5SY6416-6	5SY6416-7
5SY6620-6	5SY6620-7	5SY6420-6	5SY6420-7
5SY6625-6	5SY6625-7	5SY6425-6	5SY6425-7
-	-	-	-
5SY6632-6	5SY6632-7	5SY6432-6	5SY6432-7
5SY6640-6	5SY6640-7	5SY6440-6	5SY6440-7
5SY6650-6	5SY6650-7	5SY6450-6	5SY6450-7
5SY6663-6	5SY6663-7	5SY6463-6	5SY6463-7

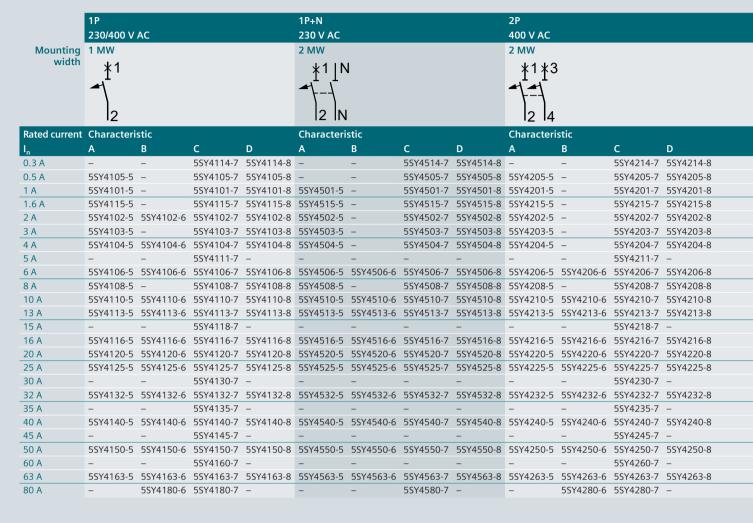
Auxiliary switches (AS))	Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (I	FC)	Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
		3313022
Auxiliary switches and	fault signal contacts (AS+FC)	Article No.
Auxiliary switches and 1 CO (AS) + 1 CO (FC)	fault signal contacts (AS+FC)	
	fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	fault signal contacts (AS+FC)	Article No. 5ST3062
1 CO (AS) + 1 CO (FC) Shunt trip (ST)	fault signal contacts (AS+FC)	Article No. 5ST3062 Article No.

Undervoltage releases	(UR)		Article No.
With integrated	230 V AC		5ST3040
auxiliary switch	110 V DC		5ST3041
	24 V DC		5ST3042
Without integrated	230 V AC		5ST3043
auxiliary switch	110 V DC		5ST3044
	24 V DC		5ST3045
Remote controlled med	hanisms (RO	mech.)	Article No.
Basic	12 30	V AC, 12 48 V DC	5ST3053
	177 27	'0 V AC	5ST3054
Power	12 30	V AC, 12 48 V DC	5ST3055
	177 27	'0 V AC	5ST3056
Power with ARD	12 30 '	V AC, 12 48 V DC	5ST3057
	177 27	'0 V AC	5ST3058
Power with extended function	12 30	V AC, 12 48 V DC	5ST3070
Adapters for remote co	ntrolled me	chanisms (RC mech.)	Article No.
1–2 MW			5ST3820-1
3–4 MW			5ST3820-2
Arc fault detection dev	ices (AFDD)		Article No.
For basic units 1P+N (2 N		I _n up to 16 A	5SM6021-2
not in combination with	RC mech.	I _n up to 40 A	5SM6024-2

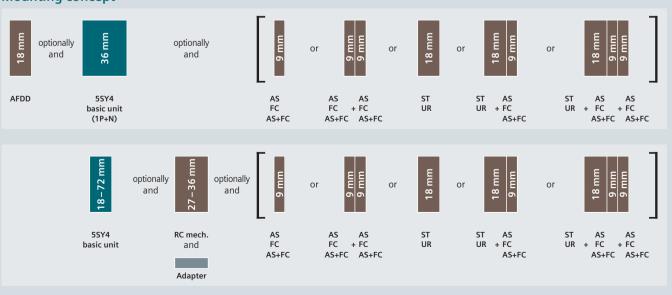
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5SY4 miniature circuit breakers

10 kA



Mounting concept





3P 400 V AC				3P+N 400 V AC				4P 400 V AC			
3 MW				4 MW				4 MW			
*1 *3 2 4	<u></u>			*1*3 12 4	<u></u> ‡5 [N 6 N			*1 *3 2 4	¥5 ¥7 16 8		
Characteris	tic			Characteris	tic			Characteris	tic		
Α	В	С	D	Α	В	C	D	Α	В	С	D
-	_	5SY4314-7	5SY4314-8	_	_	5SY4614-7	5SY4614-8	_	_	5SY4414-7	5SY4414-8
5SY4305-5	_	5SY4305-7	5SY4305-8	-	_	5SY4605-7	5SY4605-8	-	-	5SY4405-7	5SY4405-8
5SY4301-5	_	5SY4301-7	5SY4301-8	5SY4601-5	_	5SY4601-7	5SY4601-8	5SY4401-5	-	5SY4401-7	5SY4401-8
5SY4315-5	-	5SY4315-7	5SY4315-8	5SY4615-5	_	5SY4615-7	5SY4615-8	5SY4415-5	-	5SY4415-7	5SY4415-8
5SY4302-5	-	5SY4302-7	5SY4302-8	5SY4602-5	-	5SY4602-7	5SY4602-8	5SY4402-5	-	5SY4402-7	5SY4402-8
5SY4303-5	_	5SY4303-7	5SY4303-8	5SY4603-5	_	5SY4603-7	5SY4603-8	5SY4403-5	_	5SY4403-7	5SY4403-8
5SY4304-5	-	5SY4304-7	5SY4304-8	5SY4604-5	-	5SY4604-7	5SY4604-8	5SY4404-5	-	5SY4404-7	5SY4404-8
-	_	5SY4311-7	-	-	-	-	-	-	-	-	-
5SY4306-5	5SY4306-6	5SY4306-7	5SY4306-8	5SY4606-5	5SY4606-6	5SY4606-7	5SY4606-8	5SY4406-5	5SY4406-6	5SY4406-7	5SY4406-8
5SY4308-5	-	5SY4308-7	5SY4308-8	5SY4608-5	-	5SY4608-7	5SY4608-8	5SY4408-5	-	5SY4408-7	5SY4408-8
5SY4310-5	5SY4310-6	5SY4310-7	5SY4310-8	5SY4610-5	5SY4610-6	5SY4610-7	5SY4610-8	5SY4410-5	5SY4410-6	5SY4410-7	5SY4410-8
5SY4313-5	5SY4313-6	5SY4313-7	5SY4313-8	5SY4613-5	5SY4613-6	5SY4613-7	5SY4613-8	5SY4413-5	5SY4413-6	5SY4413-7	5SY4413-8
_	_	5SY4318-7	_	-	-	-	-	-	_	-	-
5SY4316-5	5SY4316-6	5SY4316-7	5SY4316-8	5SY4616-5	5SY4616-6	5SY4616-7	5SY4616-8	5SY4416-5	5SY4416-6	5SY4416-7	5SY4416-8
5SY4320-5	5SY4320-6	5SY4320-7	5SY4320-8	5SY4620-5	5SY4620-6	5SY4620-7	5SY4620-8	5SY4420-5	5SY4420-6	5SY4420-7	5SY4420-8
5SY4325-5	5SY4325-6	5SY4325-7	5SY4325-8	5SY4625-5	5SY4625-6	5SY4625-7	5SY4625-8	5SY4425-5	5SY4425-6	5SY4425-7	5SY4425-8
_	_	5SY4330-7	_	-	-	-	-	-	-	-	-
5SY4332-5	5SY4332-6	5SY4332-7	5SY4332-8	5SY4632-5	5SY4632-6	5SY4632-7	5SY4632-8	5SY4432-5	5SY4432-6	5SY4432-7	5SY4432-8
_	-	5SY4335-7	_	-	-	-	-	-	-	-	-
5SY4340-5	5SY4340-6	5SY4340-7	5SY4340-8	5SY4640-5	5SY4640-6	5SY4640-7	5SY4640-8	5SY4440-5	5SY4440-6	5SY4440-7	5SY4440-8
_	_	5SY4345-7	_	_	_	_	_	-	-	_	_
5SY4350-5	5SY4350-6	5SY4350-7	5SY4350-8	5SY4650-5	5SY4650-6	5SY4650-7	5SY4650-8	5SY4450-5	5SY4450-6	5SY4450-7	5SY4450-8
-	-	5SY4360-7	-	-	-	_	_	-	-	-	-
5SY4363-5		5SY4363-7		5SY4663-5	5SY4663-6	5SY4663-7				5SY4463-7	5SY4463-8
		EC)/4200 7				EC)/4600 7			EC)/4400 C		

5SY4680-7 –

Accessories

Auxiliary switches (AS)	Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contact	s (FC)	Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches a	nd fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
Shunt trip (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

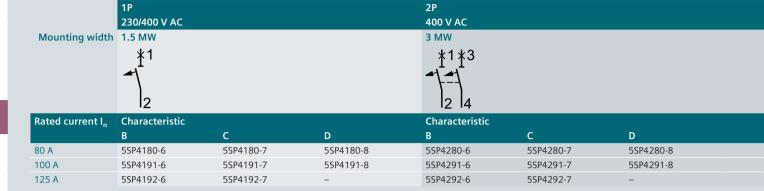
5SY4380-6 5SY4380-7 – –

Arc fault detection dev	ices (AFDD)	Article No.
For basic units 1P+N	I _n up to 16 A	5SM6021-2
(2 MW)	I _n up to 40 A	5SM6024-2
Undervoltage releases	(UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled med	Article No.	
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapters for remote co	ntrolled mechanisms (RC mech.)	Article No.
1–2 MW		5ST3820-1
3-4 MW		5ST3820-2

5SY4480-6 5SY4480-7 –

5SP4 miniature circuit breakers

10 kA



Mounting concept



AS Auxiliary switches See page 3/44
FC Fault signal contacts See page 3/45
AS+FC Auxiliary switches and fault signal contacts See page 3/46
ST Shunt trip See page 3/47
UR Undervoltage releases See page 3/48
RC mech. Remote controlled mechanisms See page 3/49



3P	4P
400 V AC	400 V AC
4.5 MW	6 MW
*1 *3 *5 2 4 6	*1 *3 *5 *7 -1 -1 -1 -1 2 4 6 8

Cl	haracteristic			Characteristic		
В		С	D	В	C	D
55	SP4380-6	5SP4380-7	5SP4380-8	5SP4480-6	5SP4480-7	5SP4480-8
55	SP4391-6	5SP4391-7	5SP4391-8	5SP4491-6	5SP4491-7	5SP4491-8
55	SP4392-6	5SP4392-7	_	5SP4492-6	5SP4492-7	_

2 NO Standard 5ST3011 For low power 5ST3014 2 NC Standard 5ST3012 For low power 5ST3015 1 CO Standard 5ST3015 1 CO Standard 5ST3016 Fault signal contacts (FC) Article No. 1 NO + 1 NC 5ST3020 2 NO 5ST3021 2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	For low powe For low powe 2 NO Standard For low powe 2 NC Standard For low powe 1 CO Standard For low powe 1 CO Standard Fault signal contacts (FC) 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	55T3013 (with diode) 55T3013-0XX01 55T3011
For low power (with diode) 5ST3013-0XX01 2 NO Standard 5ST3011 For low power 5ST3014 2 NC Standard 5ST3012 For low power 5ST3015 1 CO Standard 5ST3016 Fault signal contacts (FC) Article No. 1 NO + 1 NC 5ST3020 2 NO 5ST3021 2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 5ST3030	For low powe 2 NC Standard For low powe 2 NC Standard For low powe 1 CO Standard For low powe 1 CO Standard For low powe 2 NC 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	(with diode) 5ST3013-0XX01 5ST3011
2 NO Standard 5ST3011 For low power 5ST3014 2 NC Standard 5ST3012 For low power 5ST3015 1 CO Standard 5ST3016 Fault signal contacts (FC) Article No. 1 NO + 1 NC 5ST3020 2 NO 5ST3021 2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	2 NO Standard For low powe 2 NC Standard For low powe 1 CO Standard Fault signal contacts (FC) 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal contacts (FC) Shunt trip (ST)	5ST3011
For low power 55T3014 2 NC Standard 55T3012 For low power 55T3015 1 CO Standard 55T3015 1 CO Standard 55T3016 Fault signal contacts (FC) Article No. 1 NO + 1 NC 55T3020 2 NO 55T3021 2 NC 55T3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 55T3062 Shunt trip (ST) Article No. 110 415 V AC 55T3030	For low powe 2 NC Standard For low powe 1 CO Standard Fault signal contacts (FC) 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	
2 NC	2 NC Standard For low powe 1 CO Standard Fault signal contacts (FC) 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	5ST3014
For low power 55T3015	For low powe 1 CO Standard Fault signal contacts (FC) 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	
1 CO Standard 5ST3016 Fault signal contacts (FC) Article No. 1 NO + 1 NC 5ST3020 2 NO 5ST3021 2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	1 CO Standard Fault signal contacts (FC) 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	5ST3012
Fault signal contacts (FC) Article No. 1 NO + 1 NC 5ST3020 2 NO 5ST3021 2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	Fault signal contacts (FC) 1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	5ST3015
1 NO + 1 NC 5ST3020 2 NO 5ST3021 2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	1 NO + 1 NC 2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	5ST3016
2 NO 5ST3021 2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	2 NO 2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	Article No.
2 NC 5ST3022 Auxiliary switches and fault signal contacts (AS+FC) Article No. 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	2 NC Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	5ST3020
Auxiliary switches and fault signal contacts (AS+FC) 1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	Auxiliary switches and fault signal cont 1 CO (AS) + 1 CO (FC) Shunt trip (ST)	5ST3021
1 CO (AS) + 1 CO (FC) 5ST3062 Shunt trip (ST) Article No. 110 415 V AC 5ST3030	1 CO (AS) + 1 CO (FC) Shunt trip (ST)	ECTAGO
Shunt trip (ST) Article No. 110 415 V AC 5ST3030	Shunt trip (ST)	5513022
110 415 V AC 55T3030		
	110 1151/16	cts (AS+FC) Article No.
24 48 V AC/DC 55T3031	110 415 V AC	cts (AS+FC) Article No. 5ST3062
24 46 V ACIDC	24 48 V AC/DC	cts (AS+FC) Article No. 5ST3062 Article No.
12 V DC new 55T3031-0XX01	12 V DC new	cts (AS+FC) Article No. 5ST3062 Article No.

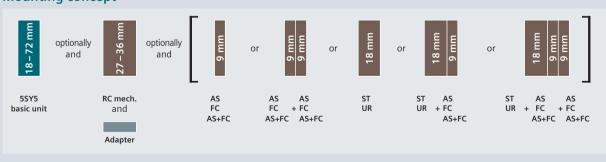
Undervoltage releases (l	JR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mech	anisms (RC mech.)	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapters for remote con	trolled mechanisms (RC mech.)	Article No.
1.5 MW		5ST3820-1
3-6 MW		5ST3820-2

5SY5 miniature circuit breakers

10 kA



Mounting concept



Auxiliary switches AS See page 3/44 FC Fault signal contacts See page 3/45 AS+FC Auxiliary switches and fault signal contacts See page 3/46 ST Shunt trip See page 3/47 UR Undervoltage releases See page 3/48 RC mech. Remote controlled mechanisms See page 3/49



Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
Shunt trip (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

Undervoltage releases (Article No.	
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mec	nanisms (RC mech.)	Article No.
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapters for remote co	ntrolled mechanisms (RC mech.)	Article No.
1-2 MW		5ST3820-1
4 MW		5ST3820-2

System overview, page 3/5

1P+N

230 V AC

2P

400 V AC

230/400 V AC

5SY7113-6

5SY7116-6

5SY7120-6

5SY7125-6

5SY7132-6

5SY7140-6

5SY7150-6

5SY7163-6

5SY7113-7

5SY7116-7

5SY7120-7

5SY7125-7

5SY7132-7

5SY7140-7

5SY7150-7

5SY7163-7

5SY7113-8

5SY7116-8

5SY7120-8

5SY7125-8

5SY7132-8

5SY7140-8

5SY7150-8

5SY7163-8

5SY7 miniature circuit breakers

15 kA

	Mounting width	1 MW			2 MW			2 MW		
		*1 1 2			*1 N			*1*3 		
Rated current	Main MCB, line side of meter	Characteristic			Characterist	ic		Characterist	tic	
I _n		В	C	D	В	C	D	В	С	D
0.3 A	-	-	5SY7114-7	5SY7114-8	_	5SY7514-7	5SY7514-8	_	5SY7214-7	5SY7214-8
0.5 A	-	-	5SY7105-7	5SY7105-8	-	5SY7505-7	5SY7505-8	-	5SY7205-7	5SY7205-8
1 A	_	-	5SY7101-7	5SY7101-8	_	5SY7501-7	5SY7501-8	_	5SY7201-7	5SY7201-8
1.6 A	-	-	5SY7115-7	5SY7115-8	_	5SY7515-7	5SY7515-8	-	5SY7215-7	5SY7215-8
2 A	-	-	5SY7102-7	5SY7102-8	-	5SY7502-7	5SY7502-8	-	5SY7202-7	5SY7202-8
3 A	_	_	5SY7103-7	5SY7103-8	_	5SY7503-7	5SY7503-8	_	5SY7203-7	5SY7203-8
4 A	-	-	5SY7104-7	5SY7104-8	_	5SY7504-7	5SY7504-8	_	5SY7204-7	5SY7204-8
6 A	-	5SY7106-6	5SY7106-7	5SY7106-8	5SY7506-6	5SY7506-7	5SY7506-8	5SY7206-6	5SY7206-7	5SY7206-8
	•	5SY7106-6KK13	-	_	_	_	_	_	_	-
8 A	-	-	5SY7108-7	5SY7108-8	_	5SY7508-7	5SY7508-8	_	5SY7208-7	5SY7208-8
10 A	-	5SY7110-6	5SY7110-7	5SY7110-8	5SY7510-6	5SY7510-7	5SY7510-8	5SY7210-6	5SY7210-7	5SY7210-8
		5SY7110-6KK13	-	-	-	-	-	-	-	-

5SY7513-6

5SY7516-6

5SY7520-6

5SY7525-6

5SY7532-6

5SY7540-6

5SY7550-6

5SY7563-6

5SY7513-7

5SY7516-7

5SY7520-7

5SY7525-7

5SY7532-7

5SY7540-7

5SY7550-7

5SY7563-7

5SY7513-8

5SY7516-8

5SY7520-8

5SY7525-8

5SY7532-8

5SY7540-8

5SY7550-8

5SY7563-8

5SY7213-6

5SY7216-6

5SY7220-6

5SY7225-6

5SY7232-6

5SY7240-6

5SY7250-6

5SY7263-6

5SY7213-7

5SY7216-7

5SY7220-7

5SY7225-7

5SY7232-7

5SY7240-7

5SY7250-7

5SY7263-7

5SY7213-8

5SY7216-8

5SY7220-8

5SY7225-8

5SY7232-8

5SY7240-8

5SY7250-8

5SY7263-8

Mounting concept

13 A

16 A

20 A

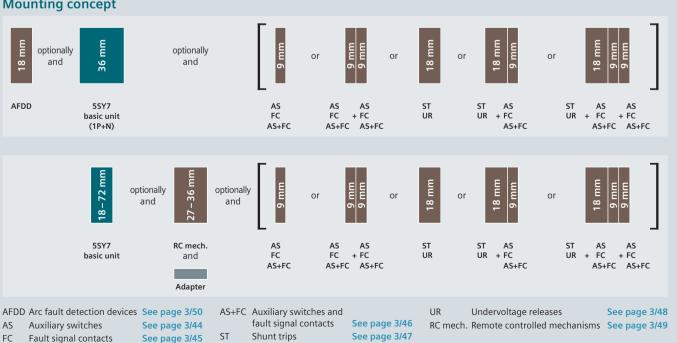
25 A

32 A

40 A

50 A

63 A





3P			3P+N			4P		
400 V AC			400 V AC			400 V AC		
3 MW			4 MW			4 MW		
*1 *3 *5 2 4 6			*1 *3 *5 12 4 6	J ^M T _M		*1 *3 *5 12 4 6	\	
Characteristic			Characteristic			Characteristic		
В	С	D	В	С	D	В	С	D
-	5SY7314-7	5SY7314-8	_	5SY7614-7	5SY7614-8	_	5SY7414-7	5SY7414-8
-	5SY7305-7	5SY7305-8	_	5SY7605-7	5SY7605-8	_	5SY7405-7	5SY7405-8
-	5SY7301-7	5SY7301-8	_	5SY7601-7	5SY7601-8	_	5SY7401-7	5SY7401-8
-	5SY7315-7	5SY7315-8	-	5SY7615-7	5SY7615-8	-	5SY7415-7	5SY7415-8
-	5SY7302-7	5SY7302-8	-	5SY7602-7	5SY7602-8	-	5SY7402-7	5SY7402-8
-	5SY7303-7	5SY7303-8	_	5SY7603-7	5SY7603-8	-	5SY7403-7	5SY7403-8
-	5SY7304-7	5SY7304-8	_	5SY7604-7	5SY7604-8	-	5SY7404-7	5SY7404-8

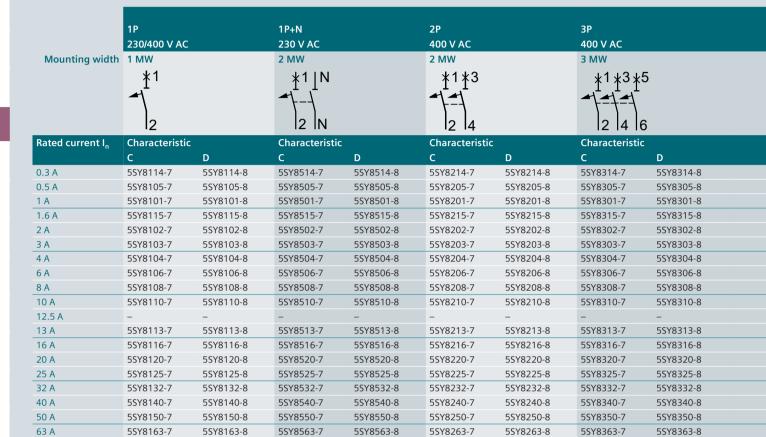
В	С	D	В	С	D	В	<u> </u>	D
ь			ь		_	ь		
-	5SY7314-7	5SY7314-8	-	5SY7614-7	5SY7614-8	-	5SY7414-7	5SY7414-8
-	5SY7305-7	5SY7305-8	-	5SY7605-7	5SY7605-8	-	5SY7405-7	5SY7405-8
-	5SY7301-7	5SY7301-8	_	5SY7601-7	5SY7601-8	-	5SY7401-7	5SY7401-8
-	5SY7315-7	5SY7315-8	_	5SY7615-7	5SY7615-8	-	5SY7415-7	5SY7415-8
-	5SY7302-7	5SY7302-8	_	5SY7602-7	5SY7602-8	-	5SY7402-7	5SY7402-8
-	5SY7303-7	5SY7303-8	_	5SY7603-7	5SY7603-8	-	5SY7403-7	5SY7403-8
-	5SY7304-7	5SY7304-8	_	5SY7604-7	5SY7604-8	-	5SY7404-7	5SY7404-8
5SY7306-6	5SY7306-7	5SY7306-8	5SY7606-6	5SY7606-7	5SY7606-8	5SY7406-6	5SY7406-7	5SY7406-8
-	-	-	-	-	-	-	-	-
-	5SY7308-7	5SY7308-8	_	5SY7608-7	5SY7608-8	_	5SY7408-7	5SY7408-8
5SY7310-6	5SY7310-7	5SY7310-8	5SY7610-6	5SY7610-7	5SY7610-8	5SY7410-6	5SY7410-7	5SY7410-8
-	-	-	_	-	-	-	-	-
5SY7313-6	5SY7313-7	5SY7313-8	5SY7613-6	5SY7613-7	5SY7613-8	5SY7413-6	5SY7413-7	5SY7413-8
5SY7316-6	5SY7316-7	5SY7316-8	5SY7616-6	5SY7616-7	5SY7616-8	5SY7416-6	5SY7416-7	5SY7416-8
5SY7320-6	5SY7320-7	5SY7320-8	5SY7620-6	5SY7620-7	5SY7620-8	5SY7420-6	5SY7420-7	5SY7420-8
5SY7325-6	5SY7325-7	5SY7325-8	5SY7625-6	5SY7625-7	5SY7625-8	5SY7425-6	5SY7425-7	5SY7425-8
5SY7332-6	5SY7332-7	5SY7332-8	5SY7632-6	5SY7632-7	5SY7632-8	5SY7432-6	5SY7432-7	5SY7432-8
5SY7340-6	5SY7340-7	5SY7340-8	5SY7640-6	5SY7640-7	5SY7640-8	5SY7440-6	5SY7440-7	5SY7440-8
5SY7350-6	5SY7350-7	5SY7350-8	5SY7650-6	5SY7650-7	5SY7650-8	5SY7450-6	5SY7450-7	5SY7450-8
5SY7363-6	5SY7363-7	5SY7363-8	5SY7663-6	5SY7663-7	5SY7663-8	5SY7463-6	5SY7463-7	5SY7463-8

Auxiliary switches (A	S)	Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts	(FC)	Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches an	d fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
Shunt trip (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

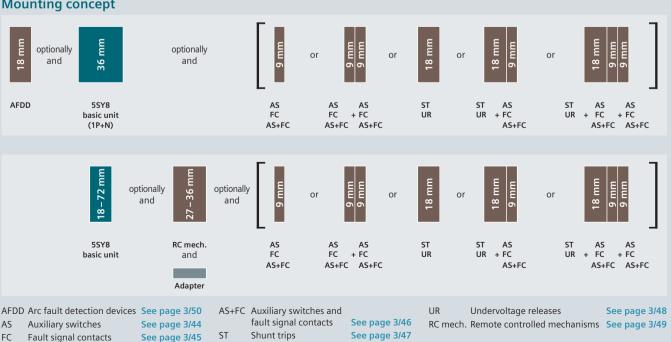
Undervoltage releases	(UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled med	hanisms (RC mech.)	Article No.
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapters for remote co	ntrolled mechanisms (RC mech.)	Article No.
1–2 MW		5ST3820-1
3–4 MW		5ST3820-2
Arc fault detection devi	ices (AFDD)	Article No.
For basic units 1P+N	I _n up to 16 A	5SM6021-2
(2 MW)	I _n up to 40 A	5SM6024-2

5SY8 miniature circuit breakers

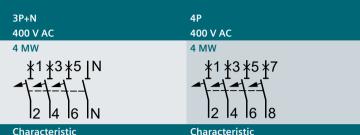
25 kA



Mounting concept







Characteristic		Characteristic		
С	D	С	D	
5SY8614-7	5SY8614-8	5SY8414-7	5SY8414-8	
5SY8605-7	5SY8605-8	5SY8405-7	5SY8405-8	
5SY8601-7	5SY8601-8	5SY8401-7	5SY8401-8	
5SY8615-7	5SY8615-8	5SY8415-7	5SY8415-8	
5SY8602-7	5SY8602-8	5SY8402-7	5SY8402-8	
5SY8603-7	5SY8603-8	5SY8403-7	5SY8403-8	
5SY8604-7	5SY8604-8	5SY8404-7	5SY8404-8	
5SY8606-7	5SY8606-8	5SY8406-7	5SY8406-8	
5SY8608-7	5SY8608-8	5SY8408-7	5SY8408-8	
5SY8610-7	5SY8610-8	5SY8410-7	5SY8410-8	
-	-	-	-	
5SY8613-7	5SY8613-8	5SY8413-7	5SY8413-8	
5SY8616-7	5SY8616-8	5SY8416-7	5SY8416-8	
5SY8620-7	5SY8620-8	5SY8420-7	5SY8420-8	
5SY8625-7	5SY8625-8	5SY8425-7	5SY8425-8	
5SY8632-7	5SY8632-8	5SY8432-7	5SY8432-8	
5SY8640-7	5SY8640-8	5SY8440-7	5SY8440-8	
5SY8650-7	5SY8650-8	5SY8450-7	5SY8450-8	
5SY8663-7	5SY8663-8	5SY8463-7	5SY8463-8	

Accessories

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (F	C)	Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and	fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
Shunt trip (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

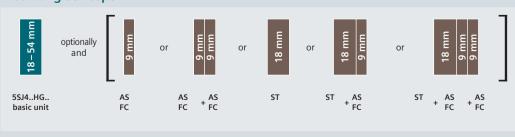
Undervoltage releases (L	IR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mech	anisms (RC mech.)	Article No.
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended	12 30 V AC, 12 48 V DC	5ST3070
function		
Adapters for remote conf	trolled mechanisms (RC mech.)	Article No.
1–2 MW		5ST3820-1
3–4 MW		5ST3820-2
Arc fault detection device	es (AFDD)	Article No.
For basic units 1P+N	I _n up to 16 A	5SM6021-2
(2 MW)	I _n up to 40 A	5SM6024-2

5SJ4..HG.. miniature circuit breakers

According to UL489, 14/10 kA

	1P "same polarit			1P				
	240 V AC	240 V AC	240 V AC	240 V AC	480Y/277 V AC	240 V AC	480Y/277 V AC	
Mounting width	1 MW			1 MW				
	* 1			* 1				
	△ ↑			△ \ [±]				
	1			\				
	12			l ₂				
Rated current I _n	Characteristic			Characteristic				
	В	С	D	С	С	D	D	
0.3 A	-	5SJ4114-7HG40	5SJ4114-8HG40	5SJ4114-7HG41	5SJ4114-7HG42	5SJ4114-8HG41	5SJ4114-8HG42	
0.5 A	_	5SJ4105-7HG40	5SJ4105-8HG40	5SJ4105-7HG41	5SJ4105-7HG42	5SJ4105-8HG41	5SJ4105-8HG42	
1 A	-	5SJ4101-7HG40	5SJ4101-8HG40	5SJ4101-7HG41	5SJ4101-7HG42	5SJ4101-8HG41	5SJ4101-8HG42	
1.6 A	-	5SJ4115-7HG40	5SJ4115-8HG40	5SJ4115-7HG41	5SJ4115-7HG42	5SJ4115-8HG41	5SJ4115-8HG42	
2 A	-	5SJ4102-7HG40	5SJ4102-8HG40	5SJ4102-7HG41	5SJ4102-7HG42	5SJ4102-8HG41	5SJ4102-8HG42	
3 A	-	5SJ4103-7HG40	5SJ4103-8HG40	5SJ4103-7HG41	5SJ4103-7HG42	5SJ4103-8HG41	5SJ4103-8HG42	
4 A	-	5SJ4104-7HG40	5SJ4104-8HG40	5SJ4104-7HG41	5SJ4104-7HG42	5SJ4104-8HG41	5SJ4104-8HG42	
5 A	-	5SJ4111-7HG40	5SJ4111-8HG40	5SJ4111-7HG41	5SJ4111-7HG42	5SJ4111-8HG41	5SJ4111-8HG42	
6 A	5SJ4106-6HG40	5SJ4106-7HG40	5SJ4106-8HG40	5SJ4106-7HG41	5SJ4106-7HG42	5SJ4106-8HG41	5SJ4106-8HG42	
8 A	-	5SJ4108-7HG40	5SJ4108-8HG40	5SJ4108-7HG41	5SJ4108-7HG42	5SJ4108-8HG41	5SJ4108-8HG42	
10 A	5SJ4110-6HG40	5SJ4110-7HG40	5SJ4110-8HG40	5SJ4110-7HG41	5SJ4110-7HG42	5SJ4110-8HG41	5SJ4110-8HG42	
13 A	5SJ4113-6HG40	5SJ4113-7HG40	5SJ4113-8HG40	5SJ4113-7HG41	5SJ4113-7HG42	5SJ4113-8HG41	5SJ4113-8HG42	
15 A	5SJ4118-6HG40	5SJ4118-7HG40	5SJ4118-8HG40	5SJ4118-7HG41	5SJ4118-7HG42	5SJ4118-8HG41	5SJ4118-8HG42	
16 A	5SJ4116-6HG40	5SJ4116-7HG40	5SJ4116-8HG40	5SJ4116-7HG41	5SJ4116-7HG42	5SJ4116-8HG41	5SJ4116-8HG42	
20 A	5SJ4120-6HG40	5SJ4120-7HG40	5SJ4120-8HG40	5SJ4120-7HG41	5SJ4120-7HG42	5SJ4120-8HG41	5SJ4120-8HG42	
25 A	5SJ4125-6HG40	5SJ4125-7HG40	5SJ4125-8HG40	5SJ4125-7HG41	5SJ4125-7HG42	5SJ4125-8HG41	5SJ4125-8HG42	
30 A	5SJ4130-6HG40	5SJ4130-7HG40	5SJ4130-8HG40	5SJ4130-7HG41	5SJ4130-7HG42	5SJ4130-8HG41	5SJ4130-8HG42	
32 A	5SJ4132-6HG40	5SJ4132-7HG40	5SJ4132-8HG40	5SJ4132-7HG41	5SJ4132-7HG42	5SJ4132-8HG41	5SJ4132-8HG42	
35 A	5SJ4135-6HG40	5SJ4135-7HG40	5SJ4135-8HG40	5SJ4135-7HG41	5SJ4135-7HG42	5SJ4135-8HG41	_	
40 A	5SJ4140-6HG40	5SJ4140-7HG40	5SJ4140-8HG40	5SJ4140-7HG41	5SJ4140-7HG42	5SJ4140-8HG41	_	
45 A	5SJ4145-6HG40	5SJ4145-7HG40	5SJ4145-8HG40	5SJ4145-7HG41	_	5SJ4145-8HG41	_	
50 A	5SJ4150-6HG40	5SJ4150-7HG40	5SJ4150-8HG40	5SJ4150-7HG41	-	5SJ4150-8HG41	-	
60 A	5SJ4160-6HG40	5SJ4160-7HG40	5SJ4160-8HG40	5SJ4160-7HG41	-	5SJ4160-8HG41	-	
63 A	5SJ4163-6HG40	5SJ4163-7HG40	5SJ4163-8HG40	5SJ4163-7HG41	-	5SJ4163-8HG41	-	

Mounting concept



AS Auxiliary switches

FC Fault signal contacts

ST Shunt trip

See page 3/44 See page 3/45

See page 3/47



2P				3P			
240 V AC	480Y/277 V AC	240 V AC	480Y/277 V AC	240 V AC	480Y/277 V AC	240 V AC	480Y/277 V AC
2 MW				3 MW			
*1*3				*1*3*5 2 4 6			
Characteristic				Characteristic			
С	С	D	D	С	С	D	D
5SJ4214-7HG41	5SJ4214-7HG42	5SJ4214-8HG41	5SJ4214-8HG42	5SJ4314-7HG41	5SJ4314-7HG42	5SJ4314-8HG41	5SJ4314-8HG42
5SJ4205-7HG41	5SJ4205-7HG42	5SJ4205-8HG41	5SJ4205-8HG42	5SJ4305-7HG41	5SJ4305-7HG42	5SJ4305-8HG41	5SJ4305-8HG42
5SJ4201-7HG41	5SJ4201-7HG42	5SJ4201-8HG41	5SJ4201-8HG42	5SJ4301-7HG41	5SJ4301-7HG42	5SJ4301-8HG41	5SJ4301-8HG42
5SJ4215-7HG41	5SJ4215-7HG42	5SJ4215-8HG41	5SJ4215-8HG42	5SJ4315-7HG41	5SJ4315-7HG42	5SJ4315-8HG41	5SJ4315-8HG42
5SJ4202-7HG41	5SJ4202-7HG42	5SJ4202-8HG41	5SJ4202-8HG42	5SJ4302-7HG41	5SJ4302-7HG42	5SJ4302-8HG41	5SJ4302-8HG42
5SJ4203-7HG41	5SJ4203-7HG42	5SJ4203-8HG41	5SJ4203-8HG42	5SJ4303-7HG41	5SJ4303-7HG42	5SJ4303-8HG41	5SJ4303-8HG42
5SJ4204-7HG41	5SJ4204-7HG42	5SJ4204-8HG41	5SJ4204-8HG42	5SJ4304-7HG41	5SJ4304-7HG42	5SJ4304-8HG41	5SJ4304-8HG42
5SJ4211-7HG41	5SJ4211-7HG42	5SJ4211-8HG41	5SJ4211-8HG42	5SJ4311-7HG41	5SJ4311-7HG42	5SJ4311-8HG41	5SJ4311-8HG42
5SJ4206-7HG41	5SJ4206-7HG42	5SJ4206-8HG41	5SJ4206-8HG42	5SJ4306-7HG41	5SJ4306-7HG42	5SJ4306-8HG41	5SJ4306-8HG42
5SJ4208-7HG41	5SJ4208-7HG42	5SJ4208-8HG41	5SJ4208-8HG42	5SJ4308-7HG41	5SJ4308-7HG42	5SJ4308-8HG41	5SJ4308-8HG42
5SJ4210-7HG41	5SJ4210-7HG42	5SJ4210-8HG41	5SJ4210-8HG42	5SJ4310-7HG41	5SJ4310-7HG42	5SJ4310-8HG41	5SJ4310-8HG42
5SJ4213-7HG41	5SJ4213-7HG42	5SJ4213-8HG41	5SJ4213-8HG42	5SJ4313-7HG41	5SJ4313-7HG42	5SJ4313-8HG41	5SJ4313-8HG42
5SJ4218-7HG41	5SJ4218-7HG42	5SJ4218-8HG41	5SJ4218-8HG42	5SJ4318-7HG41	5SJ4318-7HG42	5SJ4318-8HG41	5SJ4318-8HG42
5SJ4216-7HG41	5SJ4216-7HG42	5SJ4216-8HG41	5SJ4216-8HG42	5SJ4316-7HG41	5SJ4316-7HG42	5SJ4316-8HG41	5SJ4316-8HG42
5SJ4220-7HG41	5SJ4220-7HG42	5SJ4220-8HG41	5SJ4220-8HG42	5SJ4320-7HG41	5SJ4320-7HG42	5SJ4320-8HG41	5SJ4320-8HG42
5SJ4225-7HG41	5SJ4225-7HG42	5SJ4225-8HG41	5SJ4225-8HG42	5SJ4325-7HG41	5SJ4325-7HG42	5SJ4325-8HG41	5SJ4325-8HG42
5SJ4230-7HG41	5SJ4230-7HG42	5SJ4230-8HG41	5SJ4230-8HG42	5SJ4330-7HG41	5SJ4330-7HG42	5SJ4330-8HG41	5SJ4330-8HG42
5SJ4232-7HG41	5SJ4232-7HG42	5SJ4232-8HG41	5SJ4232-8HG42	5SJ4332-7HG41	5SJ4332-7HG42	5SJ4332-8HG41	5SJ4332-8HG42
5SJ4235-7HG41	5SJ4235-7HG42	5SJ4235-8HG41	-	5SJ4335-7HG41	5SJ4335-7HG42	5SJ4335-8HG41	-
5SJ4240-7HG41	5SJ4240-7HG42	5SJ4240-8HG41	-	5SJ4340-7HG41	5SJ4340-7HG42	5SJ4340-8HG41	-
5SJ4245-7HG41	_	5SJ4245-8HG41	_	5SJ4345-7HG41	_	5SJ4345-8HG41	-
5SJ4250-7HG41	-	5SJ4250-8HG41	-	5SJ4350-7HG41	-	5SJ4350-8HG41	-
5SJ4260-7HG41	-	5SJ4260-8HG41	-	5SJ4360-7HG41	-	5SJ4360-8HG41	-
5SJ4263-7HG41	-	5SJ4263-8HG41	-	5SJ4363-7HG41	-	5SJ4363-8HG41	-

Accessories

Auxiliary switches (AS) acc. to UL 489	Article No.
1 NO + 1 NC	5ST3010-0HG
2 NO	5ST3011-0HG
2 NC	5ST3012-0HG
Fault signal contacts (FC) acc. to UL 489	Article No.
1 NO + 1 NC	5ST3020-0HG
2 NO	5ST3021-0HG
2 NC	5ST3022-0HG
Shunt trip (ST) acc. to UL 489	Article No.
110 415 V AC	5ST3030-0HG
24 48 V AC/DC	5ST3031-0HG

5SY17 device protection switches

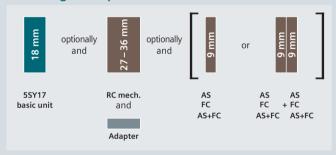
Electromechanical



	1P+AS		
	230 V AC/60 V DC	230 V AC/60 V DC	
Mounting width	1 MW (18 mm)		
	<u></u> <u>1 13</u> <u>1 13</u> <u>1 13</u> <u>1 1 13</u>		
	₂ ₁₄		

· - · · · ·	
Characteristic	
F1 (quick)	F2 (slow)
5SY1705-2	5SY1705-4
5SY1701-2	5SY1701-4
5SY1702-2	5SY1702-4
5SY1704-2	5SY1704-4
5SY1706-2	5SY1706-4
5SY1708-2	5SY1708-4
5SY1710-2	5SY1710-4
5SY1716-2	5SY1716-4
	Characteristic F1 (quick) 5SY1705-2 5SY1701-2 5SY1702-2 5SY1704-2 5SY1706-2 5SY1708-2 5SY1710-2

Mounting concept



AS Auxiliary switches See page 3/44
FC Fault signal contacts See page 3/45
AS+FC Auxiliary switches and fault signal contacts See page 3/46
RC mech. Remote controlled mechanisms See page 3/49

Accessories

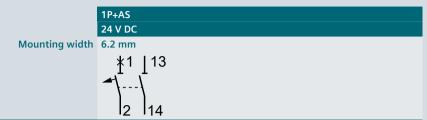
Auxiliary switches (AS)	Auxiliary switches (AS)				
1 NO + 1 NC	Standard	5ST3010			
	For low power	5ST3013			
	For low power (with diode)	5ST3013-0XX01			
2 NO	Standard	5ST3011			
	For low power	5ST3014			
2 NC	Standard	5ST3012			
	For low power	5ST3015			
1 CO	Standard	5ST3016			
Fault signal contacts (FC)		Article No.			
1 NO + 1 NC		5ST3020			
2 NO		5ST3021			
2 NC		5ST3022			

Auxiliary switches and fa	ault signal contacts (AS+FC)	Article No.			
1 CO (AS) + 1 CO (FC)		5ST3062			
Remote controlled mech	anisms (RC mech.)	Article No.			
Basic	12 30 V AC, 12 48 V DC	5ST3053			
	177 270 V AC	5ST3054			
Power	12 30 V AC, 12 48 V DC	5ST3055			
	177 270 V AC	5ST3056			
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057			
	177 270 V AC	5ST3058			
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070			
Adapters for remote con	trolled mechanisms (RC mech.)	Article No.			
1 MW	1 MW				

5SK9 device protection switches

Electronic





Rated current I _n	
1 A	55K9101-1
2 A	5SK9102-1
3 A	5SK9103-1
4 A	5SK9104-1
6 A	5SK9106-1
8 A	5SK9108-1

Specific accessories

Connecting	combs			
	Variant	Number of poles	Max. load current I _{max}	Article No.
п	For parallel infeed	2-pole	24 A	8WH9020-6BC10
			32 A	8WH9020-6CC10
10		5-pole	24 A	8WH9020-6BF10
			32 A	8WH9020-6CF10
	For remote signal – group signal	2-pole	32 A	8WH9020-6CC10
Reducing co	mbs for 10 mm² terminal blocks			
	Variant	Number of poles	Max. load current I _{max}	Article No.
	For bypassing the power supply	2-pole	40 A	8WH9020-0AC10

General accessories, page 14/57 onwards

Overview of the modular system

				5SL3	5SL6	5SL4
Auxiliary swit	tches (AS)		Article No.			
<u> </u>	1 NO + 1 NC	Standard	5ST3010			
4		For low power	5ST3013			
		For low power (with diode)	5ST3013-0XX01	•		•
4, 1	2 NO	Standard	5ST3011			
C/		For low power	5ST3014	•	•	•
	2 NC	Standard	5ST3012		•	•
		For low power	5ST3015	•	•	•
	1 CO	Standard	5ST3016	•	•	•
Fault signal c			Article No.			
4	1 NO + 1 NC		5ST3020	•		•
<u> </u>	2 NO		5ST3021	•	•	•
A	2 NC		5ST3022	•	•	•
Auxiliary swit	tches and fault signal contacts (AS	+FC)	Article No.			
	1 CO (AS) + 1 CO (FC)	Standard	5ST3062			
Shunt trip (ST			Article No.			
-	110 415 V AC		5ST3030	-	-	
	24 48 V AC/DC		5ST3031	_	_	
	12 V DC new		5ST3031-0XX01	-	-	•
Undervoltage	releases (UR)		Article No.			
	With integrated auxiliary switch	230 V AC	5ST3040	_	-	
	3	110 V DC	5ST3041	_	_	
		24 V DC	5ST3042	-	-	
巨小	Without integrated auxiliary switch	230 V AC	5ST3043	_	-	•
		110 V DC	5ST3044	-	-	
		24 V DC	5ST3045	-	-	
Remote contr	olled mechanisms (RC mech.)		Article No.			
4	Basic	12 30 V AC, 12 48 V DC	5ST3053	-		
		177 270 V AC	5ST3054			
	Power	12 30 V AC, 12 48 V DC	5ST3055	-	•	
		177 270 V AC	5ST3056	•		
	Power with ARD	12 30 V AC, 12 48 V DC	5ST3057			
		177 270 V AC	5ST3058	•		
	Power with extended function	12 30 V AC, 12 48 V DC	5ST3070			
5SM6 arc faul	t detection devices		Article No.			
ALL THE	Rated current up to 16 A	Standard	5SM6021-2	-	-	
		For compact devices 1P+N in 1 MW	5SM6011-2	_	-	
	Rated current up to 40 A	Standard	5SM6024-2	-	-	
THE P.		For compact devices 1P+N in 1 MW	5SM6014-2	-	-	-
Standard bus	bars		Article No.			
41111	Cannot be cut		5ST36			
N. N. H. N. C. S. M. N.	Can be cut		5ST37			
Compact bus	bars		Article No.			
***************************************	Cannot be cut		5ST36			
- Commence	Can be cut		5ST37			
					_	-
■ Cuitable for all	oreione	□ Suitable for some versions				
■ Suitable for all v	CISIOIIS	☐ Suitable for some versions				

Miniature circuit breakers

	Mini	ature cir	cuit bre	akers		Device protection switches			Residual	current prote	ective de	vices			detection vices		ching ices
5SJ6KS	5SL30	5SL60	5SY	5SP4	5SJ4HG	5SY17	5SV	5SM3	5SM2	5SM2 (100 A)	5SU1	5SU1 (125 A)	5SV1	5SM6	55V6	5TE8	5TL
- - - - - -	:	:	:		0HG - - 0HG - 0HG	:		- - - - - -					:				
	:	i	i	Ì	0HG 0HG 0HG	:	:	-	:	:	1		:	0	:	-	-
- - - -	- - -	-	i	i	– ОНG ОНG –	- - -	:	-	-	-	i	-	-	0	- - -	-	-
- - - - -	- - - -	- - - -	i	i	- - - - -	- - - - -		- - - - -		:			- - - -		- - - - -	- - - -	- - - - -
- - - - -	- - - -			:	- - - -	•	-	- - - -	- - - - - - - - -	- - - - -	:	- - - - -	:	- - - -	- - - -	- - - -	
- - - -	-	-	- - -		- - - -	- - - -		-	-	- - - -	-	- - - -	i	- - -	- - -	- - -	-
- - From page 3/1	• • • • • • • • • • • • • • • • • • •	:	:	:	:	From page 3/40	:	- - -	- 1	- - From page 4/16	-		:		age 4/52	- - From p	- - age 5/6

Auxiliary switches (AS)

- Signals the contact position of the mounted device
- Version for the switching of small currents and voltages according to EN 61131-2 for control of programmable control systems (PLCs).
- Test button enables the testing of control circuits without the need to switch the mounted device

For combining with basic units						Contacts	Version	Mounting width	Article No.
Miniature circuit breakers	Device protection switches	RCCBs	RCBOs	Arc fault detection devices	ON/OFF switches			(1 MW = 18 mm)	
Auxiliary sw	itches (AS)								
5SL, 5SY,	5SY17	5SV	5SU1 1),	¹⁾ , 5SV6 5TL1, 5TE8	1 NO + 1 NC	Standard	0.5 MW	5ST3010	
5SP4			5SV1				For low power	0.5 MW	5ST3013
							For low power (with diode)	0.5 MW	5ST3013-0XX01
					2 NO	Standard	0.5 MW	5ST3011	
						For low power	0.5 MW	5ST3014	
			2 NC	Standard	0.5 MW	5ST3012			
							For low power	0.5 MW	5ST3015
						1 CO	Standard	0.5 MW	5ST3016
Auxiliary sw	itches (AS) wi	th TEST but	ton						
5SL, 5SY,	5SY17	5SV	5SU1 1),	5SV6	5TL1, 5TE8	1 NO + 1 NC	Standard	0.5 MW	5ST3010-2
5SP4			5SV1				For low power	0.5 MW	5ST3013-2
						2 NO	Standard	0.5 MW	5ST3011-2
							For low power	0.5 MW	5ST3014-2
						2 NC	Standard	0.5 MW	5ST3012-2
							For low power	0.5 MW	5ST3015-2
Auxiliary sw	itches (AS) ac	c. to UL 489							
5SJ4HG	-	_	_		-	1 NO + 1 NC	Standard	0.5 MW	5ST3010-0HG
						2 NO	Standard	0.5 MW	5ST3011-0HG
						2 NC	Standard	0.5 MW	5ST3012-0HG

¹⁾ Handle coupler 5ST3805-1 required

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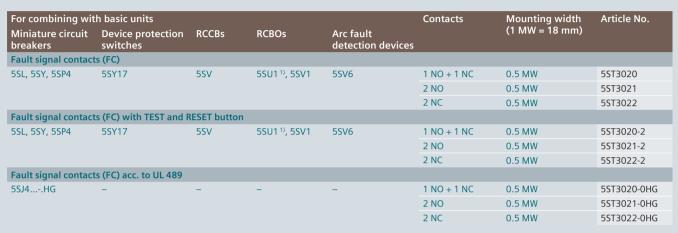
Further technical specificati	ions	5ST3010, 5ST3010-2 5ST3011, 5ST3011-2 5ST3012, 5ST3012-2	5ST3015, 5ST3016	5ST3013-2 5ST3014-2 5ST3015-2	5ST3010-0HG 5ST3011-0HG 5ST3012-0HG	
Standards						
Standards	IEC/EN	IEC/EN 62019, IEC/EN 6	0947-5-1		-	
	UL, CSA	UL 1077, CSA C22.2 No	. 235		UL 489, UL-File E321559, CSA 22.2 No. 5-02	
Contacts						
Minimum contact load		50 mA, 24 V	1 mA, 5 V DC	5 mA, 5 V DC	50 mA, 24 V	
Maximum contact load		-	100 mA, 30 V DC	30 mA, 30 V DC	-	
Contact load acc. to IEC/EN 62019	230 V AC, AC-13	6 A	-	-	6 A	
and IEC/EN 60947-5-1	400 V AC, AC-14	2 A	-	-	2 A	
	24 V DC, DC-13	6 A	-	-	6 A (3 A)	
	60 V DC, DC-13	3 A	-	-	3 A (1.5 A)	
	110 V DC, DC-13	1 A	-	-	1 A (0.75 A)	
	220 V DC, DC-13	1 A	-	-	1 A (0.5 A)	
Contact load acc. to UL	120 V AC	-	-	-	6 A	
	240 V AC	-	-	-	4 A	
	277 V AC	-	-	-	3 A	
	480 V AC	-	-	-	1.5 A	
	60 V DC	-	-	-	3 A	
	125 V DC	-	-	-	1 A	
Service life, on average, with rated load	Actuations	20000	20000	20000	12000	
Safety						
Short-circuit protection		Miniature circuit breake	er or gG 6 A fuse			
Connections						
Conductor cross-sections	0.5 2.5 mm ² (AWG 22 14)					
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)				
Ambient conditions						
Permissible ambient temperature		−25 +55 °C				
Permissible storage temperature		−40 +75 °C				
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles				
Mounting position		Any				
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²				

Resistance to vibrations at 10 ... 150 Hz Acc. to IEC 60068-2-6 50 m/s²

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Fault signal contacts (FC)

- Signals automatic tripping of the protective switching device in the event of a fault, such as an overload or a short circuit
- If the fault signal contact is activated, the contact position does not change if the protective switching device is tripped manually
- Version with TEST and RESET buttons enable the testing of control circuits without operation of the protective switching device
- Red RESET button in the operating handle indicates automatic tripping of the mounted protective switching device



¹⁾ Handle coupler 5ST3805-1 required

Further	technical	specifications

5ST3020-0HG
5ST3021-0HG
5ST3022-0HG

Standards			
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1	IEC/EN 62019, IEC/EN 60947-5-1
	UL, CSA	UL 1077, CSA C22.2 No. 235	UL 489, UL-File E321559, CSA 22.2 No. 5-02
Contacts			
Minimum contact load		50 mA, 24 V	
Contact load acc. to IEC/EN 62019	230 V AC, AC-13	6 A	6 A
and IEC/EN 60947-5-1	400 V AC, AC-14	2 A	2 A
	24 V DC, DC-13	6 A	6 A (3 A)
	60 V DC, DC-13	3 A	3 A (1.5 A)
	110 V DC, DC-13	1 A	1 A (0.75 A)
	220 V DC, DC-13	1 A	1 A (0.5 A)
Contact load acc. to UL	120 V AC	-	6 A
	240 V AC	_	4 A
	277 V AC	-	3 A
	480 V AC	_	1.5 A
	60 V DC	-	3 A
	125 V DC	_	1 A
Service life, on average, with rated load	Actuations	20000	12000
Safety			
Short-circuit protection		Miniature circuit breaker or gG 6 A	fuse
Connections			
Conductor cross-sections		0.5 2.5 mm ² (AWG 22 14)	
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)	
Ambient conditions			
Permissible ambient temperature		−25 +55 °C	
Permissible storage temperature		−40 +75 °C	
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles	
Mounting position		Any	
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²	
Resistance to vibrations at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²	

Auxiliary switches and fault signal contacts (AS+FC)

- Combines the function of both switches in a width of only 0.5 MW (9 mm).
- Signals the contact position of the mounted device
- Signals automatic tripping of the protective switching device in the event of a fault, such as an overload, a short circuit or a fault current
- If the fault signal contact is activated, the contact position does not change if the protective switching device is tripped manually

For combining wi	th basic units		Contacts	Mounting width	Article No.		
Miniature circuit breakers	Device protection switches	RCCBs	RCBOs	Arc fault detection devices		(1 MW = 18 mm)	
Auxiliary switches	and fault signal conta	cts (AS+FC)					
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 ¹⁾ , 5SV1	5SV6	1 CO (AS) + 1 CO (FC)	0.5 MW	5ST3062

¹⁾ Handle coupler 5ST3805-1 required

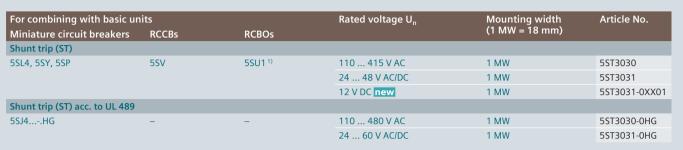
Further technical specifications

5ST3062

Standards		
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1
	UL, CSA	UL 1077, CSA C22.2 No. 235
Contacts		
Minimum contact load		50 mA, 24 V
Maximum contact load		-
Contact load acc. to IEC/EN 62019	230 V AC, AC-13	6 A
and IEC/EN 60947-5-1	400 V AC, AC-14	2 A
Contact load acc. to IEC/EN 62019	24 V DC, DC-13	3 A (3 A)
(acc. to IEC/EN 60947-5-1)	60 V DC, DC-13	3 A (1 A)
	110 V DC, DC-13	0.5 A (0.5 A)
	220 V DC, DC-13	0.5 A (0.3 A)
Service life, on average, with rated load	Actuations	20000
Safety		
Short-circuit protection		Miniature circuit breaker or gG 6 A fuse
Connections		
Conductor cross-sections		0.5 2.5 mm ² (AWG 22 14)
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)
Ambient conditions		
Permissible ambient temperature		−25 +55 °C
Permissible storage temperature		−40 +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²
Resistance to vibrations at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²

Shunt trip (ST)

• For remote-controlled tripping of the mounted device



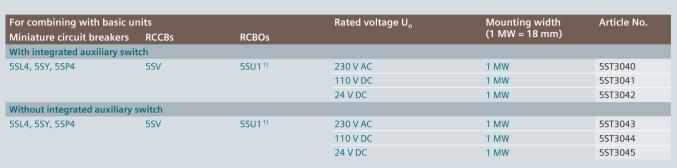
¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications		5ST3030	5ST3031	5ST3031-0XX01	5ST3030-0HG	5ST3031-0HG	
Standards							
Standards	IEC/EN	EN 60947-1	EN 60947-1	EN 60947-1	IEC/EN 60947-1		
	UL, CSA	-	-	-	UL 489, UL-File E CSA 22.2 No. 5-0	•	
Supply							
Primary operating range		0.7 1.1 × U _n	0.7 1.1 × U _n	0.7 1.1 × U _n	0.7 1.1 × U _n	0.7 1.1 × U _n	
Rated frequency f _n		50 60 Hz	50 60 Hz	_	50 60 Hz	50 60 Hz	
Contacts							
Minimum contact load		50 mA, 24 V	50 mA, 24 V	1 mA, 5 V	50 mA, 24 V	50 mA, 24 V	
Tripping operations		Max. 2000	Max. 2000	Max. 2000	Max. 2000	Max. 2000	
Service life, on average, with rated load	Actuations	20000	20000	20000	12000	12000	
Safety							
Short-circuit protection		Miniature circuit	breaker B/C 6 A or	fuse gG 6 A			
Connections							
Conductor cross-sections		0.5 2.5 mm ² (AWG 22 14)					
Terminals	Max. tightening torque	0.8 Nm (6.8 lb-in)					
Ambient conditions							
Permissible ambient temperature		−25 +55 °C	−25 +55 °C	−40 +70 °C	−25 +55 °C	−25 +55 °C	
Permissible storage temperature		−40 +75 °C	−40 +75 °C	−40 +75 °C	−40 +75 °C	−40 +75 °C	
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles	28 cycles	28 cycles	28 cycles	28 cycles	
Mounting position		Any	Any	Any	Any	Any	
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²	50 m/s ²	50 m/s ²	50 m/s ²	50 m/s ²	
Resistance to vibrations at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²	50 m/s ²	50 m/s ²	50 m/s ²	50 m/s ²	

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Undervoltage releases (UR)

- Integrated, e.g. in EMERGENCY-STOP loops
- Ensure that the mounted device trips in the event of an emergency, which, in turn, ensures disconnection of the control circuit according to EN 60204.
- Trip the mounted device if the voltage is interrupted or too low or prevents the mounted device from closing



¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

551	ヒさい	14
23	100	·

Standards		
Standards	IEC/EN	EN 60947-1
Supply		
Primary operating range		0.85 1.1 × U _n
Rated frequency f _n		50/60 Hz
Contacts		
Minimum contact load		50 mA, 24 V
Tripping operations		Max. 2000
Service life, on average, with rated load		20000 actuations
Safety		
Short-circuit protection		Miniature circuit breaker B/C 6 A or fuse gG 6 A
Connections		
Conductor cross-sections		0.5 2.5 mm ² (AWG 22 14)
Terminals	Max. tightening torque	0.8 Nm (6.8 lb-in)
Ambient conditions		
Permissible ambient temperature		−25 +55 °C
Permissible storage temperature		−40 +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²
Resistance to vibrations at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²



- For locations that are spread out over a wide area or not permanently attended
- Permits direct and immediate access to the installation even if it is remote or in a location that is hard to access
- Permits fast reconnection after a fault
- Version with ARD with automatic restart
- Versions with ARD and Power with integrated auxiliary switches and fault signal contacts

Type of remote operating mechanism	Display	Ambient temperature	Vibration and shock requirements	Rated voltage U _n	Mounting width (1 MW = 18 mm)	Article No.
Basic	-	−25 °C +45 °C	-	12 30 V AC, 12 48 V DC	1.5 MW	5ST3053
				177 270 V AC	2 MW	5ST3054
Power	LED	−25 °C +45 °C	-	12 30 V AC, 12 48 V DC	2 MW	5ST3055
				177 270 V AC	2 MW	5ST3056
Power with ARD	LED	−25 °C +45 °C	-	12 30 V AC, 12 48 V DC	2 MW	5ST3057
				177 270 V AC	2 MW	5ST3058
Power with extended function	LED	−40 °C +70 °C	Acc. to DIN EN 61373 / DIN EN 50155 "1B"	12 30 V AC, 12 48 V DC	2 MW	5ST3070

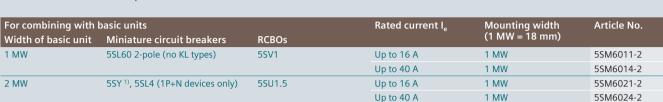
Further technical specif	ications	5ST3053	5ST3054	5ST3055	5ST3056	5ST3057	5ST3058	5ST3070
Standards								
Standards		EN 50557 (VD	E 0640-20)					
Supply								
Rated frequency f _n		50 60 Hz						
Rated power dissipation in standby		≤1 VA						
Contacts								
Service life, on average, with rated load	Actuations	10000	10000	10000	10000	10000	10000	10000
Number of remote switching operations per minute		2	2	2	2	2	2	2
Number of automatic reclose atten	npts	-	-	-	-	3	3	-
Cable length in the control circuit		≤1500 m	≤1500 m	≤1500 m	≤1500 m	≤1500 m	≤1500 m	≤1500 m
Sliding selector with locking device		-		•	•	•	•	•
Integrated auxiliary switches		-	-	1W (1CO); 2 A; 250 V				
Integrated fault signal contact		-	_	1W (1CO); 2 A; 250 V				
Connections								
Conductor cross-sections		0.5 1.5 mm	² (AWG 14 30)				
Terminal tightening torque		0.2 0.25 Nn	n (2.0 lb-in)					
Ambient conditions								
Permissible storage temperature		−40 +55 °C	−40 +55 °C	−40 +55 °C	−40 +55 °C	−40 +55 °C	−40 +55 °C	−40 +70 °C
Degree of protection		IP20	IP20	IP20	IP20	IP20	IP20	IP20
Pollution degree for overvoltage ca	tegory	3/II	3/III	3/II	3/III	3/II	3/III	3/II

Suitable adapters for combination with miniature circuit breakers

Basic units	Mounting width			Adapters
	1-2 MW	3-4 MW	3-6 MW	
5SY4/5/6/7/8	•	-	_	5ST3820-1
	-		_	5ST3820-2
5SL3/4/6	•	-	-	5ST3820-6
	-		_	5ST3820-7
5SL60 / 5SY17	•	-	-	5ST3820-6
5SP4	•	-	-	5ST3820-1
	-	-		5ST3820-2

5SM6 arc fault detection devices (AFDD)

- Detects arcing faults
- Offers extremely effective protection against fires started by electrical faults
- Ensures adequate fire protection even in applications without residual current protective device



¹⁾ Not for 5SY5, 5SY8, 5SL60 2-pole

Further technical specifications		5SM6
Standards		
Standards		IEC/EN 62606
Supply		
Rated voltage U _n		230 V
Rated current I _n		Up to 16/40 A
Rated frequency		50 Hz
Power loss		0.6 W
Contacts		
Number of poles		2-pole
Service life	Average number of switching cycles	>10000
Safety		
Touch protection	Acc. to EN 50274 (VDE 0660-514)	Finger and back-of-hand safe
Degree of protection	Acc. to EN 60529 (VDE 0470-1)	IP20, with connected conductors
Overvoltage category		III
Tripping in the event of overvoltage		>275 V
Connections		
Terminal/conductor cross-sections	Solid and stranded	0.75 16 mm ²
	Finely stranded with end sleeve	0.75 10 mm ²
Terminal tightening torque		2.0 2.5 Nm
Mains connection		Bottom
Ambient conditions		
Permissible ambient temperature		−25 +40 °C
Permissible storage temperature		−40 +75 °C
Resistance to climate at 95% relative air humidity	Acc. to IEC 60068-2-30	28 cycles, 55 °C
Pollution degree		2
CFC and silicone-free		Yes
Mounting position		Any

Suitable busbars, page 3/54 onwards
Suitable busbars and end caps, page 3/66 onwards



3

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Mechanical accessories

Mechanical rotary operating mechanisms complete with handle • For 5SY, but not for 5SYx0 1P+N in 1 MW • For 5SP4, 5SL, 5TL1, 5TE2, 5TE8, 5SU1 Article No. Handle black 5ST3060 Handle red/yellow 5ST3061 • For miniature circuit breakers, but not for 5SL60.. • For additional covering of the screw openings per pole Lockable • In the case of 5SY, also prevents removal of device from the standard mounting rail Article No. 5ST3800 Handle locking devices • To prevent undesired mechanical ON/OFF switching For miniature circuit breakers For padlocks with Article No. 5SP4, 5SY Max. 3 mm shackle 5ST3801 5SL, 5SV, 5TL1 3 ... 6 mm shackle 5ST3806 **Padlocks** • For 5ST3801 and 5ST3806 locking devices and ST3054 ... 58, ST3070 remote controlled mechanisms Article No. 5ST3802 Locking devices Comprising 5ST3801 or 5ST3806 handle locking device and 5ST3802 padlock For miniature circuit breakers Article No. Comprising 5SP4 and 5SY 5ST3801 handle locking device, 5ST3803 5ST3802 padlock 5ST3806 handle locking device, 5SL, 5SV, 5TL1 5ST3807 5ST3802 padlock Spacers · Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing Mounting width Article No. 0.5 MW 5TG8240

2 : 11 1			
Device labels	• 11		
	AdhesiveFor modular installation d	levices e.g. 5SV 5SI 5TI 1	
	Versions	levices, e.g. 551, 55L, 51L1	Article No.
	15 mm x 6 mm, white (WIN	008/	8WH8210-0AA35
	15 mm x 6 mm, yellow (WIN		8WH8210-0AA36
	13 IIIII X 0 IIIIII, yellow (WIN	(1099)	6W110210-0AA30
Terminal covers, gray			
o, al	For surface mounting, deg	gree of protection IP40	
4	SealableCan be used with 35 mm	mounting rail	
-		mounting rail	Article No.
	For widths up to		55W3004
	2.5 MW		
	4.5 MW		5SW3005
Wall enclosures, gray			
	For flush mounting, degreeCan be used with 35 mm		
BIT	For widths up to		Article No.
	2.5 MW		5SW3006
	4.5 MW		5SW3007
3			
Molded-plastic enclos			
1 1	For surface mounting, degSealable	gree of protection IP54	
	Can be used with 35 mm	mounting rail	
27.4	With transparent hinged li		
	For widths up to		Article No.
	4.5 MW		5SW1200
Covers			
F G	 Can be assembled as mini 	i distribution board	
	Suitable for all devices	all and one of the control label and	
		rail mounting of conventional label caps	Autiala Na
w=	Comprising		Article No.
	End plate		5ST2134
n 9	Angled profile		5ST2135
	Alternatively flat profile		5ST2136
Holders for front pane		from 1 to 6 MW	
14444	Universal use for devices f		Autiala Na
	Cutout height 45+0,5 mm	Cutout width	Article No.
	45 ^{18/3} IIIII	23, 41, 59, 77, 95 or 113 mm	7LF9006
Intermediate frames			
		mm ALPHA SIMBOX small distribution boards	
	Versions		Article No.
	1-tier		8GB4561
	2-tier		8GB4562
	3-tier		8GB4563
	4-tier		8GB4564

Standard busbars

5ST36, fixed length, cannot be cut

For miniature circuit breakers (MCBs)



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section	on
				10 mm ²	16 mm²
Single-phase				Article No.	Article No.
L1 L1	For 2 MCBs 1P	2 MW	33 mm	5ST3600	5ST3630
- 1-	For 6 MCBs 1P	6 MW	105 mm	5ST3601	5ST3631
L1 L1)	For 12 MCBs 1P	12 MW	212 mm	5ST3602	5ST3632
Two-phase				Article No.	Article No.
+1+	For 2 MCBs 2P	4 MW	76 mm	5ST3606	5ST3636
	For 3 MCBs 2P	6 MW	105 mm	5ST3607	5ST3637
L1 L2	For 6 MCBs 2P	12 MW	210 mm	5ST3608	5ST3638
Three-phase				Article No.	Article No.
- 1 - - 1 - 	For 2 MCBs 3P	6 MW	102 mm	5ST3613	5ST3643
	For 3 MCBs 3P	9 MW	157.5 mm	5ST3614	5ST3644
L1 L2 L3	For 4 MCBs 3P	12 MW	210 mm	5ST3615	5ST3645
	Combi pack: 20× 5ST3613 + 1 50× 5ST3615 + 5		5ST3656	-	
	Combi pack: 20× 5ST3643 + 1 50× 5ST3645 + 5			_	5ST3657
Four-phase				Article No.	Article No.
-1- -1- -1- 	For 2 MCBs 4P or 3P+N	8 MW	138 mm/ 140 mm	5ST3621	5ST3651
L1 L2 L3 N	For 3 MCBs 4P or 3P+N	12 MW	210 mm	5ST3622	5ST3652
L1 N L2 N L3 N	For 6 MCBs 2P or 1P+N	12 MW	210 mm	5ST3623	5ST3653

For MCBs equipped with auxiliary switch (AS) or fault signal contact (FC)



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length
Single-phase			
L1 AS L1	For 2 MCBs 1P	2 MW	40 mm
 1,5- 	For 6 MCBs 1P	6 MW	158 mm
L1 AS L1	For 9 MCBs 1P	9 MW	237 mm
Two-phase			
- 1 - - 1,5	For 2 MCBs 2P	4 MW	76 mm
E I	For 3 MCBs 2P	6 MW	121 mm
L1 L2 AS L1	For 5 MCBs 2P	10 MW	210 mm
Three-phase			
- 1 - - 1 - - 1,5	For 2 MCBs 3P	6 MW	115 mm
L1 L2 L3 AS L1	For 4 MCBs 3P	12 MW	237 mm
= 1,5 - - 1,5 - - 1,5 - E	For 6 MCBs 1P	9 MW	156 mm/ 158 mm
L1 AS L2 AS L3 AS L1	For 9 MCBs 1P	12 MW	227 mm

For MCBs with RCCB



Conductor cross-section	on
10 mm ²	16 mm²
Article No.	Article No.
5ST3603	5ST3633
5ST3604	5ST3634
5ST3605	5ST3635
Article No.	Article No.
-	5ST3640
-	5ST3641
-	5ST3642
Article No.	Article No.
5ST3616	5ST3646
5ST3617	5ST3647
5ST3618	5ST3648
5ST3620	5ST3650

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section	
				10 mm ²	16 mm²
Three-phase				Article No.	Article No.
L1 L2 L3 N L1 L2 L3 L1 L2 L3 L1 L2	For 8 MCBs 1P with 1 RCCB 3P+N, N right	12 MW	210 mm	5ST3624	5ST3654
N L1 L2 L3 L1 L2 L3 L1 L2 L3 L1 L2	For 8 MCBs 1P with 1 RCCB 3P+N, N left	12 MW	192 mm	5ST3667	5ST3668

Accessories

Terminals for 5ST36 and 5S	Article No.	
For conductors up to 25 mm ²	Cable entry on the left	5ST3768-4
	Cable entry in the center	5ST3768-3
	Cable entry on the right	5ST3768-5
For conductors up to 50 mm ²	Cable entry on the left	5ST3760-4
	Cable entry in the center	5ST3760-3
	Cable entry on the right	5ST3760-5

Terminals for infeed at side		Article No.
For conductors up to 25 mm ²	Short	5ST3768
	Short, IP20	5ST3771-2
Touch protection		Article No.
For free connections, yellow (RAL 1004) 5× 1 pin		5ST3655

Standard busbars

5ST37, can be cut

For miniature circuit breakers (MCBs)



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Color	Conductor cross-section	Conductor cross-section	
						10 mm ²	16 mm²	
Single-phase, straight						Article No.	Article No.	
+ 1+	For MCB	12 MW	216 mm	•	Gray	5ST3762	-	
	1P+N compact				Blue	5ST3687-0	-	
L1 L1		56 MW	1016 mm	-	Gray	5ST3764	-	
					Blue	5ST3787-0	-	
Single-phase, angled 45°						Article No.	Article No.	
-1- -1-	For MCB	12 MW	216 mm		Blue	5ST3763	-	
	1P+N compact	56 MW	1016 mm	-	Blue	5ST3765	-	
Single-phase, angled 90°						Article No.	Article No.	
+1+	For MCBs 1P	12 MW	214 mm			5ST3730	5ST3700	
		56 MW	1016 mm	-		5ST3731	5ST3701	
Two-phase						Article No.	Article No.	
- 1-	For MCBs 2P	12 MW	214 mm	•		5ST3734	5ST3704	
L1 L2		56 MW	1016 mm	-		5ST3735	5ST3705	

For MCBs equipped with auxiliary switch (AS) ...



Pin spacing in MW (1 MW = 18 mm)	Application



... or fault signal contact (FC)

For MCBs equipped with undervoltage release (UR) / shunt release (ST)



No. of MW	Length	End caps incl.	Conductor cross-section	1
			10 mm ²	16 mm²
			Article No.	Article No.
12 MW	214 mm		5ST3732	5ST3702
56 MW	1016 mm	-	5ST3733	5ST3703
			Article No.	Article No.
12 MW	214 mm		5ST3736	5ST3706
56 MW	1016 mm	_	5ST3737	5ST3707
50			33.3737	33.37.07

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Conductor cross-section	1
					10 mm ²	16 mm²
Two-phase					Article No.	Article No.
L1 UR L2 UR L1	For MCBs 1P with UR/ST	56 MW	1016 mm	-	5ST3735-2	-

Accessories

Terminals for 5ST36 and 5S	Article No.	
For conductors up to 25 mm ²	Cable entry on the left	5ST3768-4
	Cable entry in the center	5ST3768-3
	Cable entry on the right	5ST3768-5
For conductors up to 50 mm ²	Cable entry on the left	5ST3760-4
	Cable entry in the center	5ST3760-3
	Cable entry on the right	5ST3760-5

Terminals for infeed at side		Article No.
For conductors up to 25 mm ²	Short	5ST3768
	Short, IP20	5ST3771-2
End caps		Article No.
For single-phase busbars	Gray	5ST3766
(MCB 1P+N compact)	Blue	5ST3767
For two-phase busbars		5ST3750
Touch protection		Article No.
For free connections, yellow (R	AL 1004) 5× 1 pin	5ST3655

Standard busbars

5ST37, can be cut

For miniature circuit breakers (MCBs)

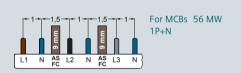


Pin spacing in MW (1 MW = 18 mm)		Applica- tion	No. of MW	Length	End caps	Conductor cross-section	n
					incl.	10 mm²	16 mm ²
Three-phase						Article No.	Article No.
+1+ +1+ 		For MCBs 3P	12 MW	214 mm	•	5ST3738	5ST3708
L1 L2 L3			56 MW	1016 mm	-	5ST3740	5ST3710
Four-phase						Article No.	Article No.
- 1 - - 1 - - 1-		For MCBs	12 MW	214 mm	•	5ST3745	5ST3715
L1 L2 L3 N		4P or 3P+N	56 MW	1016 mm	-	5ST3746	5ST3716
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1-1-1-1-1 L3 N L1	For RCBOs or MCBs 1P+N	56 MW	1000 mm	-	5ST3770-2	5ST3770-3

For MCBs equipped with auxiliary switch (AS) ...



Pin spacing in MW (1 MW = 18 mm)	Applica- tion	No. of MW
Three-phase		
+1++1,5-+ E	For MCBs 3P	12 MW
L1 L2 L3 AS L1		56 MW
- 1,5 → - 1,5 → - 1,5 →	For MCBs 1P	12 MW
L1 AS L2 AS L3 AS L1		56 MW
Four-phase		



... or fault signal contact (FC)

For MCBs with line-side RCCB or RCCBs equipped with AS/FC devices



Accessories

Terminals for 5ST36 and 5ST	Г37	Article No.
For conductors up to 25 mm ²	Cable entry on the left	5ST3768-4
	Cable entry in the center	5ST3768-3
	Cable entry on the right	5ST3768-5
For conductors up to 50 mm ²	Cable entry on the left	5ST3760-4
	Cable entry in the center	5ST3760-3
	Cable entry on the right	5ST3760-5

End caps	Article No.
For three-phase busbars	5ST3750
For four-phase busbars	5ST3718
Touch protection	Article No.
For free connections, yellow (RAL 1004) 5× 1 pin	5ST3655

For 6 MCBs 1P+N 16 MW 292 mm

with 1 RCCB 3P+N, N right 5ST3770-4 5ST3770-5

Standard busbars

5ST37 acc. to UL 508, can be cut

For miniature circuit breakers (MCBs)



Pin spacing in MW	MW Application No. of MW Length		Conductor cros	s-section	
(1 MW = 18 mm)				18 mm²	25 mm²
Single-phase				Article No.	Article No.
L1 L1	For MCBs 1P or fuse holders 10 x 38 mm/class CC	56 MW	1000 mm	5ST3701-0HG	-
L1 L1	For MCBs 1P or fuse holders 14 x 51 mm	56 MW	1000 mm	-	5ST3701-2HG
Two-phase				Article No.	Article No.
L1 L2	For MCBs 2P or fuse holders 10 x 38 mm/class CC	56 MW	1000 mm	5ST3705-0HG	-
L1 L2	For MCBs 2P or fuse holders 14 x 51 mm	56 MW	1000 mm	-	5ST3705-2HG
Three-phase				Article No.	Article No.
L1 L2 L3	For MCBs 3P or fuse holders 10 x 38 mm/class CC	56 MW	1000 mm	5ST3710-0HG	-
L1 L2 L3	For MCBs 3P or fuse holders 14 x 51 mm	56 MW	1000 mm	-	5ST3710-2HG

For MCBs equipped with auxiliary switch (AS) / fault signal contact (FC)



Pin spacing in MW	Application	No. of MW	Length	Conductor cross	-section
(1 MW = 18 mm)				18 mm²	25 mm²
Single-phase				Article No.	Article No.
L1 AS L1	For MCBs 1P	56 MW	1000 mm	5ST3703-0HG	-
Two-phase				Article No.	Article No.
L1 L2 AS L1	For MCBs 2P	56 MW	1000 mm	5ST3707-0HG	-
Three-phase				Article No.	Article No.
L1 L2 L3 AS L1	For MCBs 3P	56 MW	1000 mm	5ST3712-0HG	-
L1 AS L2 AS L3 AS L1	For MCBs 1P	56 MW	1000 mm	5ST3714-0HG	-

Accessories

Terminals according to UL 508		Article No.
For infeed at the device	35 mm ²	5ST3770-0HG
For infeed at the busbar	50 mm ²	5ST3770-1HG
End caps acc. to UL 508		Article No.
For single-phase busbars		5ST3748-0HG
For two- and three-phase busbars		5ST3750-0HG
Touch protection acc. to UL 508		Article No.
For open terminals, yellow 5× 1 pin		5ST3655-0HG

Standard busbars

5ST3.. acc. to UL 489 specially for 5SJ4... -. HG..

Fixed length, cannot be cut, for miniature circuit breakers (MCBs) 1)



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section 16 mm²
Single-phase				Article No.
+1-	For 6 MCBs 1P	6 MW	100 mm	5ST3663-0HG
	For 12 MCBs 1P	12 MW	205 mm	5ST3663-1HG
L1 L1	For 18 MCBs 1P	18 MW	310 mm	5ST3663-2HG
Two-phase				Article No.
- 1-	For 3 MCBs 2P	6 MW	100 mm	5ST3664-0HG
	For 6 MCBs 2P	12 MW	205 mm	5ST3664-1HG
L1 L2	For 9 MCBs 2P	18 MW	310 mm	5ST3664-2HG
Three-phase				Article No.
- 1 - - 1 - 	For 2 MCBs 3P	6 MW	100 mm	5ST3665-0HG
	For 4 MCBs 3P	12 MW	205 mm	5ST3665-1HG
L1 L2 L3	For 6 MCBs 3P	18 MW	310 mm	5ST3665-2HG

¹⁾ All unassigned pins of the busbars that cannot be cut must be covered with 5ST3666-1HG touch protection covers.

Can be cut, for MCBs



Pin spacing in MW (1 MW = 18 mm)	Application
Single-phase	
L1 L1	For MCBs 1P
Two-phase	
L1 L2	For MCBs 2P
Three-phase	
L1 L2 L3	For MCBs 3P

Can be cut, for MCBs equipped with auxiliary switch (AS) / fault signal contact (FC)



No. of MW	Length	Conductor cross-section 18 mm ²
		Article No.
56 MW	1016 mm	5ST3701-3HG
		Article No.
56 MW	1016 mm	5ST3705-3HG
		Article No.
56 MW	1016 mm	5ST3710-3HG

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section 18 mm ²
Single-phase				Article No
L1 AS L1	For MCBs 1P	56 MW	1016 mm	5ST3703-3HG
Two-phase				Article No.
L1 L2 AS L1	For MCBs 2P	56 MW	1016 mm	5ST3707-3HG
Three-phase				Article No.
L1 L2 L3 AS L1	For MCBs 3P	56 MW	1016 mm	5ST3712-3HG
1,5 + 1,5 +	For MCBs 1P	56 MW	1016 mm	5ST3714-3HG

Accessories

Terminals according to UL 489			Article No.
For infeed at the 5SJ4 HG miniature circuit breaker		16 mm²	5ST3666-0HG
		18 mm²	5ST3770-3HG
For infeed at the busbar		16 mm ²	5ST3666-2HG
End caps acc. to UL 489			Article No.
For single-, two- and three-phase bush	ars		5ST3750-3HG
Touch protection acc. to UL 489			Article No.
For open terminals, yellow 3× 1 pin	For 5ST37HG b	usbars that cannot be cut	5ST3666-1HG
	For 5ST373HG b	ousbars that can be cut	5ST3655-3HG

Compact busbars

5ST36, fixed length, cannot be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Conductor cross-section 10 mm²
Two-phase, for infeed via RCCB					Article No.
L1 N L1 N L1 N	For 1× RCCB 1P+N and 5× compact devices equipped with 5SM6 arc fault detection device	12 MW	216 mm	•	5ST3685-0
Two-phase					Article No.
L1 N L1 N L1 N	For 12× compact devices	12 MW	218 mm	•	5ST3674-0
L1 N L1 N	For 6× compact devices equipped with 5SM6 arc fault detection device	11 MW	200 mm	•	5ST3676-0
Four-phase					Article No.
L1 N L2 N L3 N L1 N	For 12× compact devices	12 MW	218 mm	•	5ST3673-0
2 2 2 1 L1 N L2 N L3 N	For 6× compact devices equipped with 5SM6 arc fault detection device	11 MW	200 mm	•	5ST3675-0

5ST37, can be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Conductor cross-section 10 mm²
Two-phase, for infeed via RCCB					Article No.
L1 N L1 N L1 N L1 N	For 1× RCCB 1P+N and 10× compact devices	12 MW	215 mm	•	5ST3784-0
N L1 L1 N L1 N L1 N	For 1× RCCB 1P+N (RCCB N-left only) and 10× compact devices	12 MW	215 mm	•	5ST3784-0KL
Two-phase					Article No.
L1 N L1 N L1 N	For compact devices	60 MW	1060 mm	-	5ST3774-0
L1 N L1 N	For compact devices equipped with 5SM6 arc fault detection device	59 MW	1042 mm	-	5ST3776-0
L1 NASL1 NASL1 NAS	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	-	5ST3778-0
2,5 L1 NAS L1 NAS	For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch	58.5 MW	1036 mm	-	5ST3780-0
Four-phase, for infeed via RCCB					Article No.
L1 L2 L3 N L1 N L2 N L3 N	For 1× RCCB 3P+N and 8× compact devices	12 MW	216 mm	•	5ST3783-0
N L1 L2 L3 L1 N L2 N L3 N	For 1× RCCB 3P+N (RCCB N-left only) and 8× compact devices	12 MW	216 mm	•	5ST3783-0KL
Four-phase					Article No.
L1 N L2 N L3 N L1 N	For compact devices	60 MW	1060 mm	-	5ST3773-0
L1 N L2 N L3 N	For compact devices equipped with 5SM6 arc fault detection device	59 MW	1042 mm	-	5ST3775-0
L ₁ NAS _{L2} NAS _{L3} NAS _{L1}	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	-	5ST3777-0

Accessories

End caps		Article No.
Two- and three-phase but	sbars	5ST3788-0
Touch protection		Article No.
For free connections,	For pins L1, N	5ST3655
yellow (RAL 1004)	For pins 12-13	5ST3655-0HG

Accessories for busbars

General accessories

For conducto	rs Version	Cable entry	Infeed	Article No.	
Up to 25 mm		Cable entry	Side	5ST3768	
Op to 25 min	Short, IP20	_	Side	5ST3771-2	
	SHOIL, IFZU	_	Side	5515//1-2	
Up to 25 mm	_	Center	-	5ST3768-3	
		Left	_	5ST3768-4	
		Right	-	5ST3768-5	
Up to 30 mm	2 _	-	Busbar	5ST3770-1HG	
Up to 35 mm	2 _	-	Device	5ST3770-0HG	
Up to 35 mm	For 5SJ4HG		Miniature circuit breaker	5ST3666-0HG	
	For 5ST373HG that can be co	ut –	Miniature circuit breaker	5ST3770-3HG	
	<u> </u>	Center	_	5ST3760-3	
		Left	_	5ST3760-4	
		Right	-	5ST3760-5	
Up to 50 mm	_	-	Busbar	5ST3666-2HG	

5ST36	5ST37	5ST37 (acc. to UL 508)	5ST3 (acc. to UL 489)	5ST3 compact
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	•			
			•	

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Accessories for busbars

General accessories

Touch protection					
AAA	Version	Scope of supply		Version	Article No.
A A	For free connections,	5× 1 pin		-	5ST3655
	yellow (RAL 1004)				5ST3655-0HG
		3× 1 pin		_	5ST3666-1HG
				-	5ST3655-3HG
	For 10 mm ² conductors	20× 5ST3613 + 10× 5ST3614 + 50× 5ST	3615 + 50× 5ST3655	_	5ST3656
	For 16 mm ² conductors	20× 5ST3643 + 10× 5ST3644 + 50× 5ST	3645 + 50× 5ST3655	For 5ST3373HG	5ST3657
End caps					
	Version	Col	lor		Article No.
	For single-phase busbars	Gra	ay		5ST3748
	For two- and three-phase	busbars Gra	ay		5ST3750
3	For four-phase busbars	Gra	ay		5ST3718
	For single-, two- and three	e-phase busbars Gra	ay		5ST3750-3HG
7	-	Gra	ay .		5ST3766
	-	Blu	e		5ST3767
	For single-phase busbars	Gra	ay		5ST3748-0HG
	For two- and three-phase	busbars Gra	ıy		5ST3750-0HG
. (6	For two- and four-phase c	ompact busbars Gra	ıy		5ST3788-0

5ST36	5ST37	5ST37 (acc. to UL 508)	5ST3 (acc. to UL 489)	5ST3 compact
•		_		
		•		•
			:	
•				
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	_			
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				_
				•

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Accessories for busbars

General accessories

Series connectors					
	Conductor cross-section	Length of cable	Color	Number of phases	Article No.
	10 mm ²	125 mm	N conductor blue	1	5ST3781-0
			Cable black	1	5ST3791-0
				3	5ST3793-0
		150 mm	N conductor blue	1	5ST3781-1
			Cable black	1	5ST3791-1
				3	5ST3793-1
	16 mm ²	125 mm	N conductor blue	1	5ST3782-0
			Cable black	1	5ST3792-0
				3	5ST3794-0
		150 mm	N conductor blue	1	5ST3782-1
			Cable black	1	5ST3792-1
				3	5ST3794-1
		200 mm	N conductor blue	1	5ST3781-2
			Cable black	1	5ST3791-2
				3	5ST3793-2
			3x cables black and 1x N conductor blue	3+N	5ST3793-3

5ST36	5ST37	5ST37 (acc. to UL 508)	5ST3 (acc. to UL 489)	5ST3 compact
	•			
	•			
	•			
	•			
	_			

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Distribution blocks for standard rail mounting

Acc. to IEC

Distribution blocks acc. to IEC						
	Number of poles	Operational voltage U _e	Rated current I _e	Mounting width	Article No.	
MANUAL MA	4-pole	690 V AC	80 A	5 MW	5ST2501	
			125 A	5.5 MW	5ST2502	
			160 A	9 MW	5ST2503	

Further technical specifications			5ST2501	5ST2502	5ST2503	
Standards						
Standards			IEC 60947-7-1	IEC 60947-7-1		
Supply						
Operational voltage AC			690 V	690 V	690 V	
Max. rated current			80 A	125 A	160 A	
Conductor cross-section						
Inputs per pole	Solid/stranded		1× 2.5 16 mm ²	1× 6 35 mm ²	1× 10 50 mm ²	
	Finely stranded with end sle	eve	1× 1.5 10 mm ²	1× 6 25 mm ²	1× 10 35 mm²	
Outputs per pole	Solid/stranded		8× 1.5 10 mm ²	5× 1.5 6 mm ² 2× 4 16 mm ²	8× 2.5 16 mm ² 3× 10 35 mm ²	
	Finely stranded with end sle	eeve	8× 1.5 10 mm ²	5× 1.5 6 mm² (small) 2× 4 10 mm² (large)	8× 1.5 16 mm ² (small) 3× 10 25 mm ² (large)	
Tightening torque						
Inputs	Screw terminals		13.5 lb-in (1,5 Nm)	13.5 lb-in (1,5 Nm)	3.5 5 lb-in (2 Nm)	
	Tools		PZ2	PZ2	PZ2	
Outputs	Screw terminals	Large	13.5 lb-in (1.5 Nm)	13.5 lb-in (1.5 Nm)	13.5 lb-in (1.5 Nm)	
		Small	-	7.2 lb-in (0.8 Nm)	13.5 lb-in (1.5 Nm)	
	Tools	Large	PZ1	PZ2	PZ2	
		Small	-	PZ1	PZ2	
Safety						
Rated peak withstand current I _{pk}			21.6 kA	24 kA	20 kA	
Rated short-time withstand current I _{cw} (1 s)			3 kA	4.2 kA	6.2 kA	
Ambient conditions						
Permissible ambient temperature			−25 +70 °C			
Degree of protection Acc. to EN 60529			IP 20			
Approved cable			Copper			

According to IEC and UL

Distribution block	s acc. to IEC and UL				
	Number of poles	Operational voltage U _e	Rated current I _e	Mounting width	Article No.
	1-pole	600 V AC	80 A	1.5 MW	5ST2504
			125 A	1.5 MW	5ST2505
SPEMENS (PAL) By the U. Str.			160 A	2 MW	5ST2507
2000			250 A	2.5 MW	5ST2508
			350 A	2.5 MW	5ST2511
Connector for 5ST	2505 distribution be	oard			
SIEMENS 5ST2 506 20mm ²	 Touch protection 20 mm² 32 mm 				
	Version				Article No.
	Single-phase	5ST2506			
Terminal lug for r	ing terminal ends				
	Versions				Article No.
()	For 5ST2508 distribu	ution block			5ST2510
350	For 5ST2511 distribu	ution block			5ST2512

Further techi	nical specifica	tions	5ST2504	5ST2505	5ST2507	5ST2508	5ST2511
Standards							
Standards			UL 1059 / UL 486E UL File No. E80027 C22.2 No. 158 -198	// XCFR2			
Supply							
Operational voltag	е	UL	600 V AC				
		IEC	1000/1500 V AC/D	С			
Max. rated current		UL	80 A	115 A	160 A	230 A	310 A
		IEC	80 A	125 A	160 A	250 A	400 A
Conductor cross-s	ection						
Inputs per pole	Solid/stranded	anded Large	3× 2.5 25 mm ²	10 35 mm ²	10 70 mm ²	35 120 mm ²	95 185 mm²
	_		AWG 3× 14 4	AWG 1×8 2	AWG 1×8 2/0	AWG 1× 2 4/0	AWG 1× 3/0 350 MCN
		Small	-	2.5 25 mm ²	-	_	-
			-	AWG 1× 14 6	-	_	-
	Finely stranded with end sleeve	Large	3× 2.5 16 mm ²	10 35 mm ²	10 50 mm ²	35 95 mm ²	95 150 mm ²
			AWG 3× 14 6	AWG 1×8 2	AWG 1×8 1	AWG 1× 2 3/0	AWG 3/0 300 MCM
		Small	-	2.5 25 mm ²	-	_	-
			-	AWG 1× 14 6	-	-	-
Outputs per pole	Solid/stranded	Тор	2.5 6 mm ²	2.5 16 mm ²	2.5 16 mm ²	2.5 10 mm ²	2× 2.5 35 mm ²
			AWG 4× 14 10	AWG 6× 14 4	AWG 6× 14 4	AWG 4× 16 8	AWG 2× 14 2
		Center	-	_	-	2.5 16 mm ²	5× 2.5 16 mm ²
			-	_	-	AWG 5 x 14 6	AWG 5 x 14 6
		Bottom	2.5 6 mm ²	-	-	2× 2.5 35 mm ²	4× 2.5 10 mm ²
			AWG 4× 14 10	-	-	AWG 2 x 14 2	AWG 4 x 14 8
	Finely stranded	Тор	2.5 6 mm ²	2.5 16 mm ²	2.5 16 mm ²	2× 2.5 25 mm ²	2× 2.5 25 mm ²
	with end sleeve		AWG 4× 14 10	AWG 6× 14 6	AWG 6× 14 4	AWG 2× 14 4	AWG 2× 14 4
		Bottom	2.5 6 mm ²	-	-	2× 2.5 25 mm ²	4× 2.5 25 mm ²
			AWG 4× 14 10	_	_	AWG 2 x 14 4	AWG 5 x 14 4
							C 12 1

Continued on next page

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Distribution blocks for standard rail mounting

According to IEC and UL (continued)

Further techn	iical specificat	tions	5ST2504	5ST2505	5ST2507	5ST2508	5ST2511
Tightening torque							
Inputs	Screw terminals		13.2 26.5 lb-in (1.5 3 Nm)	31 44 lb-in (3.5 5 Nm)	44 53 lb-in (5 6 Nm)	170 186 lb-in (19 21 Nm)	222 lb-in (25 Nm)
	Tools		PZ2	Allen key 4 mm	Allen key 5 mm	Allen key 6 mm	Allen key 8 mm
Outputs	Screw terminals	Large	13.2 26.5 lb-in (1.5 3 Nm)	17.7 26.5 lb-in (2 3 Nm)	13.2 26.5 lb-in (1.5 3 Nm)	31 62 lb-in (3.5 7 Nm)	31 62 lb-in (3.5 7 Nm)
		Small	7 13.2 lb-in (0.8 1.5 Nm)	-	-	18 27 lb-in (2 3 Nm)	18 27 lb-in (2 3 Nm)
	Tools	Large	PZ2	PZ2	PZ2	Standard screwdriver	Standard screwdriver
		Small	PZ1	PZ2	PZ2	Standard screwdriver	Standard screwdriver
Safety							
Rated peak withstand current I _{pk}		2.7 kA	30 kA	30 kA	51 kA	51 kA	
Rated short-time withstand current I _{cw} (1 s)		1.9 kA	4.2 kA	11 kA	21 kA	21 kA	
Overcurrent protec	tion class		J				
Short circuit current rating (SCCR)	RMS Sym A		100 kA				
Electrical isolation	Creepage distance	S	1/2" (12.7 mm)				
	Clearances		3/8" (9.5 mm)				
Ambient condition	ıs						
Permissible ambien	t temperature		−25 +70 °C				
Degree of protection	Acc. to EN 60529		IP20				
Fire class			UL 94V-0				
Approved cable			Copper				

3/75

SIKclip wiring system

SIKclip busbar							
20000	Length			Article No.			
三班班班班班	12 MW			5ST2520			
	24 MW			5ST2521			
	36 MW			5ST2522			
Connecting cables	s with plug						
	Length	Conductor cross-section	Color	Article No.			
	120 mm	6 mm ²	Black	5ST2523			
			Blue	5ST2524			
~		10 mm ²	Black	5ST2525			
			Blue	5ST2526			
	200 mm	6 mm ²	Black	5ST2527			
			Blue	5ST2528			
		10 mm ²	Black	5ST2530			
			Blue	5ST2531			
Crimp connector							
	 For connection to 	cables 4/6 mm ²					
				Article No.			
~				5ST2532			
Mounting bracket	ts						
rang.	For mounting on	For mounting on the rear of the standard mounting rail (pair)					
19				Article No.			
				5ST2533			

Further technical specifications

Standards	
Test specifications	EN 60947-1, EN 61439-1
Rated values	
Rated operational voltage U _n	400 V AC
Max. rated current I _n	250 A
Max. rated output current I _n (at 40 °C ambient temperature)	63 A
Rated insulation voltage	660 V AC
Test voltage (50 Hz)	2.5 kV
Ambient conditions	
Degree of protection	IP20
Connecting cables	40 A (6 mm²), 63 A (10 mm²)
Connecting cable type	H07VK
Ambient temperature	−5 +60 °C

System overview, page 3/5 Siemens LV 10 · 10/2019

All of this requires new protection strategies for electrical installations. This also includes appropriate residual current protection devices or residual current circuit breakers that will cut the current immediately and safely in the event of

a fault.



Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)

All ti	he information you need	4/2
	em overview	4/4
Intro	oduction	4/5
Quid	ck selection guide	4/6
	RCCBs	4/6
	RC units	4/8
	RCBOs	4/10
	Arc fault detection devices (AFDD)	4/12
Basic	c units	4/14
	5SV RCCBs, type AC, A and F	4/14
	5SV3 RCCBs, type B and B+ (SIQUENCE)	4/26
4	5SM3 RCCBs, type AC and A	4/30
	5SM2 RC units, type AC, A and F	4/32
	5SU1 RCBOs, type AC, A and F	4/38
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	Electrical accessories	4/56
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	RCCB protective socket outlets	4/63
	Standard busbars	4/64
	Compact busbars	4/68

A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about residual current protective devices / arc fault detection devices, please visit our websites

www.siemens.com/rccb www.siemens.com/protection-concept



Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

- Technical basic information SENTRON protection concept (109767456)
- Technology primer Residual current protective devices (109482301)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Siemens YouTube channel

Our video range

• Residual current protective devices (general) bit.ly/2kKQhCj



Everything you need for your order

Refer to the Industry Mall for an overview of your products

• Residual current protective devices / arc fault detection devices sie.ag/2m55Y7j

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

Configuration manual Residual current protective devices / arc fault detection devices (45303255)



The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog



Training and tutorials

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- Protection concept (WT-LVBPC)
- 5SM6 arc fault detection devices (WT-LVBAFDD)



Technical overview of residual current protective devices / arc fault detection devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on residual current protective devices I arc fault detection devices

www.siemens.com/lowvoltage/product-support (109769082)

System overview

Basic devices and accessories

Basic units













Arc fault detection

Electrical accessories



5SV3



5SM3









Auxiliary switches (AS)

Fault signal contacts

Auxiliary switches and fault signal contacts

Shunt releases (ST)

Undervoltage releases

Remote controlled (RC) mechanisms

Mechanical accessories













Locking devices

Handle couplers

Touch protection

Wall enclosures

Molded-plastic enclosures

Terminal covers

Busbars and accessories











Compact busbars

Standard busbars

Terminals

Touch protection

RCCB protective socket outlets







In molded-plastic enclosure

For mounting on device box

Introduction

Residual current protective devices

Equipment, power, environmental conditions

Design	
RCCBs	
RCBOs	
RC units	
Number of pole	
1P+N	

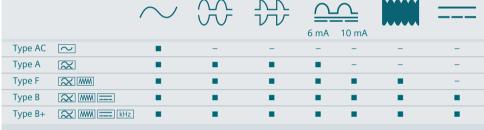
4P

Rated current I_n

0.3 ... 125 A

2P 3P 3P+N

Types and waveform



Version	
SIGRES	with active condensation protection for use in severe ambient conditions
[G] / [K]	super-resistant, 10 ms short-term delayed devices with increased immunity to false triggering due to transient disruptions
[S]	as an upstream group switch for selective shutdown against downstream RCCBs
500 V	with their creep and air distances designed for power grids up to 500 V alternating voltage
50 400 Hz	meet the triggering conditions up to 400 Hz due to low decrease in sensitivity with increasing frequency

Protection objective, equipment directives VDE 0100-410, VDE 0100-530, VDE 0100-7xx, VDE 0100-482, VDS 3501, Shutdown conditions according to VDE 0100-410

Selection criteria

Rated residual current $I_{\Delta n}$ (Protection objective)

Additional protection $I_{\Delta n} \le 30 \text{ mA}$ Error protection $I_{\Lambda n} > 30 \text{ mA}$

Fire protection I_{∆n} ≤300 mA

Characteristic CB (for residual current operated circuit breakers)

A B

C D

RCCBs



				33 v			
Types			Instantaneous	SIGRES, instantaneous	Short-time delayed [G]		
Type AC				-			
Type A							
Type B/Type B+			-	-	-		
Type F			-	-	-		
Surge current withstand capa	bility 8/20 μs						
Type A		kA	>1	>1	>3		
Type B/Type B+		kA	-	-	-		
Type F		kA	-	-	>3		
Minimum operational voltage	for test function operation						
30-mA devices		V AC		195			
Non-30-mA devices		V AC		100			
24 V devices		V AC		20			
Terminal conductor cross-sect	ions						
1-wire	Solid/stranded	mm²		0.75 35			
	Finely stranded with end sleeve	mm ²		0.75 25			
	Finely stranded without end sleeve	mm ²		1 35			
2-wire, same cross-section,	Solid/stranded	mm²		0.75 10			
same conductor type	Finely stranded with end sleeve	mm ²	0.75 4				
	Finely stranded without end sleeve	mm ²		1 4			
1-wire + busbar	Solid/stranded	mm ²		10 25			
(pin thickness 1.5 mm)	Finely stranded with non-insulated end sleeve	mm ²	6 25				
	Finely stranded with insulated end sleeve	mm ²		6 16			
Terminal tightening torque		Nm		2.5 3.5			
Poles							
Number of poles				1P+N 3P+N			
Rated voltage U _n		V AC		24 125 230 400	500		
Operating frequency		Hz		50 50 400 50/6	50		
Standards							
			IEC/EN 61543 (V	E 0664-10), IEC/EN 610 DE 0664-30), IEC/ EN 6 E EN 61008,ÖVE/ÖNORI			
Rated residual current I _{∆n}		mA		10, 30, 100, 300, 500,	1000		
Rated current I _n		Α		16 80			
Rated breaking capacity I _{cn}		kA		-			
Connection				N right N left			
Service life	Average number of switching cycles			>10000			
Test button Test cycles			h	alf-vearly 1) SIGRES ann	nually ²⁾		

Rated residual current I _{∆n}		mA	10, 30, 100, 300, 500, 1000
Rated current I _n		Α	16 80
Rated breaking capacity I _{cn}		kA	-
Connection			N right N left
Service life	Average number of switching cycles		>10000
Test button Test cycles			half-yearly 1) SIGRES annually 2)
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, if the distribution board is installed, with connected conductors
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe
Temperatures	Storage temperature	°C	-40 to +75 °C
	Ambient temperature	°C	-25 to +45, marked with 🦃
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. air humidity)
CFC and silicone-free			•
Mains connection			top bottom SIGRES on top only
Overvoltage category Pollution	n degree		III 2
More information			
			The state of the s

See page 4/14

Catalog LV 10

¹⁾ Extension to annual test interval under certain conditions ²⁾ Extension to four-yearly test interval under certain conditions







	5SV		SIQUENCE 5SV3		5S	M3	
Super resistant [K]	Selective [S]	SIGRES, Selective	Super resistant [K]	Selective [S]	Instantaneous	Selective [S]	
		[S]					
-	-	-	-	-	•	•	
•	•	•	-	-	•	•	
-	-	-	•	•	-	-	
			-	-	-	-	
>3	>5	>5	-	_	>1	>5	
	-	-	>3	>5	_		
>3	_	_	-		_	_	
	195		19	5	1	95	
	100		-			-	
	20		-			-	
	0.75 35		0.75 .	35	1.5 50 (2 MW)	2.5 50 (4 MW)	
	0.75 25		0.75 .	25		-	
	1 35		-			-	
	0.75 10		-			-	
	0.75 4		-		-		
	1 4						
	10 25 6 25		_		-		
	6 16		_		_		
	2.5 3.5		2.5	3.0	3.0	3.5	
	210111 515		2.5	5.0	5101	515	
	1P+N 3P+N		1P+N	3P+N	1P+N	3P+N	
24	125 230 400	1500	230			400	
	50/60		50/			50	
	VDE 0664-10), IE		IEC/EN 62423 (\			(VDE 0664-10),	
), IEC/EN 61543 (IEC/EN 61543 (\			1 (VDE 0664-11),	
	N 62423 (VDE 066 51008,ÖVE/ÖNOR		DIN VDE 0664-40	J (Type B+ only)	IEC/EN 61543 (VDE 0664-30), EC/EN 62423 (VDE 0664-40)		
OVE LIVE	TOOO,OVETONON	IN E 000 I			EC/EN 02423	(VDE 0004-40)	
10, 3	0, 100, 300, 500,	. 1000	30, 300	, 500	30, 100, 300, 500		
	16 80		16		100 125		
	-		-		-		
	N right N left		N rig	ht	N right		
	>10000		>100		>10 000		
half-ye	arly 1) SIGRES an		annua	<u> </u>		yearly	
		IP20, if the	distribution board is instal		ductors		
			Finger and back-o -40 to +7!				
			-25 to +45, mark				
	_		28 cycles (55 °C; 95% i	el. air humidity)			
. 11	# CICDEC	*		***			
top bo	ttom SIGRES on	top only	top bo			oottom	
	III 2		III		III	2	
	See page 4/14		See pag	e 4/26	See na	ne 4/30	
	Jee page 4/14		See pay	C II/EU	See page 4/30		

System overview, page 4/4

RC units



5SM2 (0.3 ... 63 A)

Types		Instantaneous	
Type AC		•	
Type A			
Type F		-	
Surge current withstand capability 8/20 µs			
Type A	kA	>1	
Type F	kA	-	
Minimum operational voltage for test equipment			
30-mA devices	V AC	195	
Non-30-mA devices	V AC	100	
Terminal conductor cross-sections			
Solid/stranded	mm²	1.0 25	
Terminal tightening torque	Nm	2.5 3.0	

S	ta	nd	a	rd	le :	
_	ш	HΨ	ш	ľ	•	

Catalog LV 10

Number of poles

Rated voltage U_n

Operating frequency

IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40)

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2P | 3P | 4P

230 | 400 50 | 50/60

Rated residual current I _{∆n}		mA	10, 30, 100, 300, 500, 1000
Rated current I _n		Α	0.3 63
Service life	Average number of switching cycles		>10000
Test button Test cycles			half-yearly 1)
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, if the distribution board is installed, with connected conductors
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe
Temperatures	Storage temperature	°C	-40 to +75 °C
	Ambient temperature	°C	-25 to +45, marked with 🗱
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. air humidity)
CFC and silicone-free			•
Mains connection			top bottom
Overvoltage category Polluti	on degree		III 2
More information			

¹⁾ Extension to annual test interval under certain conditions





5SM2 (0.	5SM2 (0.3 63 A)		. 100 A)	
Super resistant [K]	Selective [S]	Instantaneous	Selective [S]	
•	•	•		
•		•		
	-	-	-	
	>5	. 1		
>3	>5	>1	>5	
>3	_	-	_	
1	95	195		
1	00	100		
1.0	25	6.0 50)	
2.5 3.0	2.5 3.0	2.5 3.0	2.5 3.0	
	3P 4P	2P 4P		
	400	230 400 50 50 / 60		
50 5	50 50/60		50	
IEC/EN 61009-1 (VDE 0664-20)	IEC/EN 61009-2-1 (VDE 0664-21),	IEC/EN 61009-1 (VDE 0664-20), IEC/E	EN 61009-2-1 (VDE 0664-21)	
	, IEC/EN 62423 (VDE 0664-40)	IEC/EN 61543 (VDE 0664-30), IEC		
30	300, 500, 1000	30, 300	300, 1000	
0.3 63	0.3 63	80 100	80 100	
>10000	>10000	>10000	>10000	
half-yearly 1)	half-yearly 1)	half-yearly 1)	half-yearly 1)	
	stalled, with connected conductors	IP20, if the distribution board is install		
5	ck-of-hand safe	Finger and back-of-hand safe -40 to +75 °C		
	+75 °C			
	-25 to +45, marked with 🔯		-25 to +45, marked with 🔯	
28 cycles (55 °C; 9!	5% rel. air humidity)	28 cycles (55 °C; 95% r	el. air humidity)	
411				
· · · · · · · · · · · · · · · · · · ·	oottom 2	top botto	DITI	
	12	111 2		
See na	ge 4/32	See page 4	1/32	
See pu	J	and page		

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RCBOs



ECI11	(up to 40 A	١
22011	lub lo 40 A	v

			550 i (u) (0 40 A)
Types			Instantaneous	Short-time delayed [G]
Type AC				•
Type A				
Type F			-	-
Surge current withstand capability	8/20 μs			
Type A		kA	>1	>3
Type F		kA	-	_
Minimum voltage for operation of t	the test equipment			
30-mA devices		V AC	1	95
Non-30-mA devices		V AC	1	00
Terminal conductor cross-sections				
1 conductor at front + busbar at rear	Solid/stranded	mm²	0.75	35
	Finely stranded with end sleeve	mm²		25
	Finely stranded without end sleeve	mm²		25
2 conductors at rear	Solid/stranded	mm²		5 6
2 conductors de redi	Finely stranded with non-insulated end sleeve	mm ²		5 4
	Finely stranded with insulated end sleeve	mm ²		5 4
	Finely stranded without end sleeve	mm²		4
Terminal tightening torque	Timely strainaca without that sietave	Nm		3.0
Poles		IVIII	2.5	5.0
Number of poles			1P±	N 2P
ated voltage U _n V AC				•
Operating frequency		Hz	110 230 50 50/60	
Standards		112	301	50700
Standards			IEC/EN 61009-1	(VDE 0664-20),
				1 (VDE 0664-21),
			IEC/EN 61543	(VDE 0664-30);
			IEC/EN 62423	(VDE 0664-40)
Rated residual current I _{∆n}		mA		100, 300
Rated current I _n		A		40
Rated breaking capacity I _{cn}		kA		6 10
Connection			· · · · · · · · · · · · · · · · · · ·	t N left
Service life	Average number of switching cycles			0000
Test button Test cycles				rearly 1)
Degree of protection	Acc. to EN 60529 (VDE 0470-1)			ion board is installed, red conductors
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and ba	ck-of-hand safe
Temperatures	Storage temperature	°C	-40 to +75 °C	
	Ambient temperature	°C	-25 to +45. n	narked with 😂
Resistance to climate	Acc. to IEC 60068-2-30			5% rel. air humidity)
CFC and silicone-free			•	
Mains connection			top	oottom
Energy limitation class			• •	3
Overvoltage category Pollution degre	ee			2
More information				
Catalog LV 10			See pa	ige 4/38
<u> </u>				

¹⁾ Extension to annual test interval under certain conditions







5SU1 (up	to 40 A)	5SU1	(125 A)	5SV1	
Super resistant [K]	Selective [S]	Instantaneous	Short-time delayed [G]	Instantaneous	
-	-		•		
-				•	
	-	-	-	-	
-	>5	>1	>3	>1	
>3	-	-	-	-	
195	5		195	195	
100)		100	100	
0.75	. 35	25	5 50	0.75 16	
0.75	. 25	25	5 35	0.75 10	
1 2	25		_	0.75 16	
0.75 .	6		-	0.75 4	
0.75 .	4		-	0.75 2.5	
0.75 .	4		-	0.75 1.5	
1	4		_	0.75 4	
2.5	2.5 3.0) 3.5	1.2 2.0	
1P+N	2P	2	P 4P	1P+N	
110 2	230	230 400		230	
50 50	/60	50 50/60		50 50 / 60	
IEC/EN 61009-1 (IEC/EN 61009-2-1 IEC/EN 61543 (V IEC/EN 62423 (V	(VDE 0664-21), DE 0664-30),	IEC/EN 61009-: IEC/EN 6154:	-1 (VDE 0664-20), 2-1 (VDE 0664-21), 3 (VDE 0664-30), 3 (VDE 0664-40)	IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40)	
	,				
10, 30, 10	00, 300	30, 3	00, 1000	30, 300	
6 4	40		125	2 16	
4.5 6	10		10	4.5 6	
N right	N left	N rig	ht N left	N right	
>100	00	>10000		>10 000	
half-yea	arly 1)	half-yearly 1)		half-yearly 1)	
	IP20, if th	e distribution board is installe	d, with connected conductors		
		Finger and back-of	hand safe		
		-40 to +75	°C		
		-25 to +45, marke	d with 🕸		
		28 cycles (55 °C; 95% re			
•			•	•	
top bo	ttom	top	bottom	top bottom	
3			3	3	
III]:	2		II 2	III 2	
See page	e 4/38	See p	age 4/38	See page 4/48	

System overview, page 4/4

Arc fault detection devices (AFDD)





			5SM6	5SV6
Poles				
Number of poles			2P	1P+N
Rated voltage U _n		V AC	230	230
Operating frequency		Hz	50	50
Terminal conductor cross-se	ections			
Solid and stranded		mm²	0.75 16	0.75 16
Finely stranded with end slee	eve	mm²	0.75 10	0.75 10
Terminal tightening torque		Nm	2.0 2.5	1.2 2.0
Standards				
			IEC/EN 62606	IEC/EN 62606
Rated current I _n		Α	Up to 16/40 A	6 40
Service life	Average number of switching cycles		>10000	>10000
Mounting position			Any	Any
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, with connected conductors	
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe	
Temperatures	Storage temperature	°C	-40 to	+75 ℃
	Ambient temperature	°C	-25 to +45, ma	arked with 🔯
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. air humidity)	
CFC and silicone-free			-	•
Mains connection			bottom	top bottom
Overvoltage category Pollut	tion degree		III 2	III 2
Tripping in the event of over	voltage	V	>275	>285
More information				
Catalog LV 10			See page 4/52	See page 4/53

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Quick selection guide | Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)

5SV RCCBs

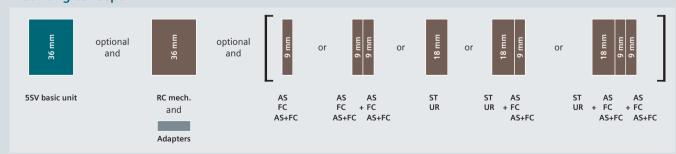
Type AC, 1P+N (2 MW)

	Instantaneous			Short-time delayed [G]
	230 V AC		24 125 V AC	230 V AC
N connection	Right	Left	Right	Right
	e e	e e		

$I_{\Delta n}$	I _n	Thermal overload protection 1)	Bulk packaging (36 units)				
Type AC							
10 mA	16 A	-	-	5SV4111-0	5SV4111-0KL	_	-
30 mA	16 A	-	-	5SV4311-0	5SV4311-0KL	5SV4311-0KK13	-
	25 A	_	_	5SV4312-0	5SV4312-0KL	5SV4312-0KK13	_
		-		5SV4312-0GV01	_	-	-
	40 A	_	-	5SV4314-0	5SV4314-0KL	5SV4314-0KK13	5SV4314-0LA01
		=		5SV4314-0GV01	5SV4314-0GV02	_	-
			_	5SV4314-0LA	_	_	_
	63 A	-	-	5SV4316-0	5SV4316-0KL	5SV4316-0KK13	_
	80 A	_	-	5SV4317-0	5SV4317-0KL	-	-
100 mA	25 A	-	-	5SV4412-0	-	_	-
	40 A	_	_	5SV4414-0	5SV4414-0KL	_	_
	63 A	_	_	5SV4416-0	5SV4416-0KL	_	_
	80 A	_	-	5SV4417-0	_	-	-
300 mA	25 A	-	-	5SV4612-0	5SV4612-0KL	-	-
	40 A	_	-	5SV4614-0	5SV4614-0KL	-	-
	63 A	-	-	5SV4616-0	5SV4616-0KL	-	-
	80 A	-	-	5SV4617-0	5SV4617-0KL	-	_

¹⁾ Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).

Mounting concept



AS	Auxiliary switch	See page 4/56
FC	Fault signal contact	See page 4/57
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt release	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)	Article No.	
1 NO contact + 1 NC conta	5ST3020	
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO o	contact (FC)	5ST3062
Shunt releases (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
21 10 1/10/20		

Article No. AC 5ST3040 DC 5ST3041 C 5ST3042
DC 5ST3041
C 5ST3042
AC 5ST3043
DC 5ST3044
C 5ST3045
sms Article No.
30 V AC, 12 48 V DC 5ST3055
270 V AC 5ST3056
30 V AC, 12 48 V DC 5ST3057
270 V AC 5ST3058
30 V AC, 12 48 V DC 5ST3070
Article No.
5ST3820-6
) :

N connection Right

5SV RCCBs

Type A, 1P+N (2 MW)

l _{Δn}	l _n	Thermal overload protection 1)	Bulk packaging (36 units)				
Type A							
10 mA	16 A	-	_	-	5SV3111-6	5SV3111-6KL	-
30 mA	16 A	-	-	5SV3311-6KK13	5SV3311-6	5SV3311-6KL	-
	3011111 1071	-		-	5SV3311-6GV01	-	-
	25 A	-	-	5SV3312-6KK13	5SV3312-6	5SV3312-6KL	5SV3312-6BA
		-		-	5SV3312-6GV01	-	-
	40 A	_	-	5SV3314-6KK13	5SV3314-6	5SV3314-6KL	5SV3314-6BA
		-		-	5SV3314-6GV01	-	-
			-	-	5SV3314-6LA	-	-
	63 A	-	-	5SV3316-6KK13	5SV3316-6	5SV3316-6KL	5SV3316-6BA
	80 A	_	_	-	5SV3317-6	5SV3317-6KL	-
100 mA	25 A	-	-	-	5SV3412-6	5SV3412-6KL	5SV3612-6BA
	40 A	-	-	-	5SV3414-6	5SV3414-6KL	5SV3614-6BA
	63 A	-	-	-	5SV3416-6	5SV3416-6KL	5SV3616-6BA

5SV3417-6

5SV3612-6

5SV3614-6

5SV3616-6

5SV3617-6

230 V AC

Left

5SV3417-6KL

5SV3612-6KL

5SV3614-6KL

5SV3616-6KL

5SV3617-6KL

Right

Instantaneous

24 ... 125 V AC

Mounting concept

80 A

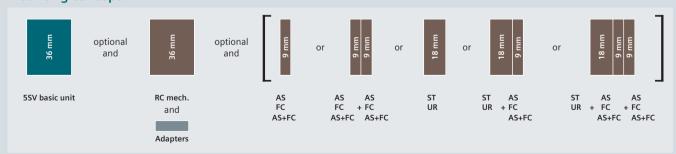
25 A

40 A

63 A

80 A

300 mA



AS	Auxiliary switch	See page 4/56
FC	Fault signal contact	See page 4/57
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt release	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

Instantaneous

230 V AC

Right

(only available in Belgium) 2)

¹⁾ Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).
²⁾ These products cannot be used in France according to NF C 15-100. Product complies with the specifications of the Belgian market only. (Simultaneous tripping of the 3 poles and the N conductor.) Available for the export market only.

SIGRES, instantaneous	Short-time delayed [G]	Super resistant [K]	Selective [S]	
230 V AC	230 V AC	230 V AC	230 V AC	
Right	Right	Right	Right	Left
	***	-	4/4	4/4
6 6	6 6	6 6	6 6	E 0
0	0	5		9
	E	E		E
_	-	_	-	_
5SV3311-6KK12				
	_	_	_	_
5SV3312-6KK12	_	5SV3312-6KK01	-	_
- OKK12	_	-	_	_
5SV3314-6KK12	_	5SV3314-6KK01	_	_
-	-	-	-	_
_	5SV3314-6LA01	_	_	-
5SV3316-6KK12	-	5SV3316-6KK01	-	-
-	-	5SV3317-6KK01	-	-
-	-	-	-	-
-	-	-	-	_
-	-	-	5SV3416-8	-
-	-	-	-	-
-	-	5SV3612-6KK01	5SV3612-8	-
-	_	5SV3614-6KK01	5SV3614-8	5SV3614-8KL
-	-	5SV3616-6KK01	5SV3616-8	5SV3616-8KL
_	-	5SV3617-6KK01	5SV3617-8	_

Auxiliary switches (AS)		Article No.	
1 NO contact +	Standard	5ST3010	
1 NC contact	For low power	5ST3013	
	For low power (with diode)	5ST3013-0XX01	
2 NO contacts	Standard	5ST3011	
	For low power	5ST3014	
2 NC contacts	Standard	5ST3012	
	For low power	5ST3015	
1 CO contact	Standard	5ST3016	
Fault signal contacts (FC	Fault signal contacts (FC)		
1 NO contact + 1 NC conta	nct	5ST3020	
2 NO contacts		5ST3021	
2 NC contacts		5ST3022	
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.	
1 CO contact (AS) + 1 CO	contact (FC)	5ST3062	
Shunt releases (ST)	Article No.		
110 415 V AC	5ST3030		
24 48 V AC/DC	5ST3031		
21111101710750			

Undervoltage releases (UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	Article No.	
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechani	sm	Article No.
2 MW		5ST3820-6

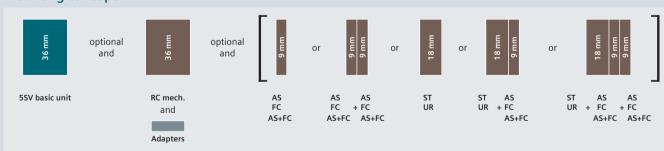
5SV RCCBs

Type F, 1P+N (2 MW)

Super resistant [K]	Selective [S]
230 V AC	230 V AC
Right	Right

$I_{\Delta n}$	I _n		
Type F			
30 mA	25 A	5SV3312-3	-
	40 A	5SV3314-3	-
	63 A	5SV3316-3	-
	80 A	5SV3317-3	-
300 mA	25 A	5SV3612-3	-
	40 A	5SV3614-3	5SV3614-7
	63 A	5SV3616-3	-
	80 A	5SV3617-3	5SV3617-7

Mounting concept



AS	Auxiliary switch	See page 4/56
FC	Fault signal contact	See page 4/57
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt release	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC conta	5ST3020	
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fa	ault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO	contact (FC)	5ST3062
Shunt releases (ST)	Article No.	
110 415 V AC	5ST3030	
24 48 V AC/DC	5ST3031	
12 V DC new		5ST3031-0XX01

Undervoltage releases	Article No.	
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	Article No.	
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechan	Article No.	
2 MW	5ST3820-6	
	55.5520 0	

5SV RCCBs

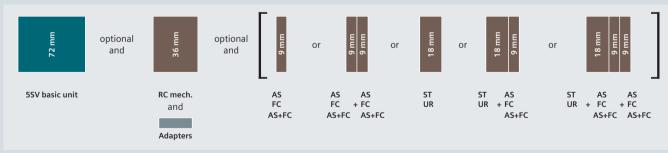
Type AC, 3P+N (4 MW)

	Instantaneous 400 V AC		Short-time delayed [G] 400 V AC
N connection	Right	Left	Right
	000	0000	0000

I_{\Deltan}	l _n	Thermal overload protection 1)	Bulk packaging (18 units)			
Type AC						
30 mA	25 A	-	-	5SV4342-0	5SV4342-0KL	-
		=		5SV4342-0GV01	-	-
	40 A	-	-	5SV4344-0	5SV4344-0KL	5SV4344-0LA01
		-		5SV4344-0GV01	-	-
			_	5SV4344-0LA	-	-
	63 A	-	_	5SV4346-0	5SV4346-0KL	5SV4346-0LA01
			-	5SV4346-0LA	-	-
	80 A	-	-	5SV4347-0	5SV4347-0KL	-
100 mA	25 A	-	-	5SV4442-0	-	-
	40 A	-	_	5SV4444-0	-	5SV4444-0LA01
			_	5SV4444-0LA	-	-
	63 A	-	-	5SV4446-0	-	5SV4446-0LA01
			-	5SV4446-0LA	-	-
	80 A	-	_	5SV4447-0	-	-
300 mA	25 A	-	_	5SV4642-0	5SV4642-0KL	-
	40 A	-	-	5SV4644-0	5SV4644-0KL	-
	63 A	-	-	5SV4646-0	5SV4646-0KL	-
	80 A	-	_	5SV4647-0	5SV4647-0KL	-
500 mA	25 A	-	_	5SV4742-0	-	_
	40 A	-	_	5SV4744-0	-	-
	63 A	-	-	5SV4746-0	-	-
	80 A	-	-	5SV4747-0	-	-

¹⁾ Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).

Mounting concept



AS	Auxiliary switch	See page 4/56
FC	Fault signal contact	See page 4/57
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt release	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO contact + 1 NC conta	ct	5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO c	contact (FC)	5ST3062
Shunt releases (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

Undervoltage releases	Article No.	
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	mechanisms	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechan	ism	Article No.
4 MW		5ST3820-6

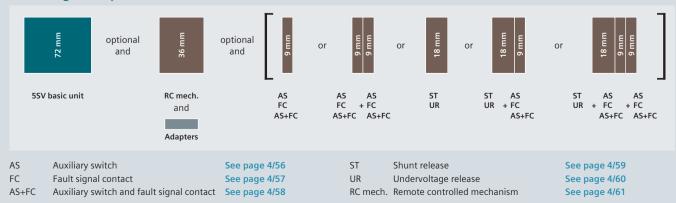
5SV RCCBs

Type A, 3P+N (4 MW)

	Instantaneous			
	400 V AC		400 V AC/400 Hz	500 V AC
N connection	Right	Left	Right	Right
	0000	0000	0000	0000
	0000	0000	2000	0000

$I_{\Delta n}$	I _n	Thermal overload protection 1)	Bulk packaging (18 units)					
Type A								
30 mA	25 A	-	_	5SV3342-6	5SV3342-6KL	5SV3342-6KK03	5SV3352-6	
		-		5SV3342-6GV01	-	-	-	
	40 A	-	_	5SV3344-6	5SV3344-6KL	5SV3344-6KK03	5SV3354-6	
		-	•	5SV3344-6GV01	5SV3344-6GV02	-	-	
			-	5SV3344-6LA	-	-	-	
	63 A	-	-	5SV3346-6	5SV3346-6KL	-	5SV3356-6	
		-	•	5SV3346-6GV01	-	-	-	
		•	-	5SV3346-6LA	-	-	-	
	80 A	_	_	5SV3347-6	5SV3347-6KL	-	5SV3357-6	
100 mA	25 A	-	-	5SV3442-6	-	-	-	
	40 A	-	-	5SV3444-6	-	-	-	
		•	-	5SV3444-6LA	-	-	-	
	63 A	-	-	5SV3446-6	-	-	-	
			-	5SV3446-6LA	-	-	-	
	80 A	_	-	5SV3447-6	-	-	-	
300 mA	25 A	-	-	5SV3642-6	5SV3642-6KL	-	5SV3652-6	
	40 A	-	-	5SV3644-6	5SV3644-6KL	-	5SV3654-6	
			-	-	-	-	-	
	63 A	-	-	5SV3646-6	5SV3646-6KL	-	5SV3656-6	
			-	-	-	-	-	
	80 A	_		5SV3647-6	5SV3647-6KL	-	5SV3657-6	
500 mA	25 A	-	-	5SV3742-6	-	-	-	
	40 A	-	-	5SV3744-6	-	-	-	
	63 A	-	-	5SV3746-6	5SV3746-6KL	-	-	
		-		5SV3746-6GV01	-	-	-	
	80 A	_	-	5SV3747-6	-	-	-	
1000 mA	63 A	_	_	-	-	-	-	

Mounting concept



Thermal overload protection according to ÖVE/ÖNORM E 8001 possible up to rated current of the RCCB (40 A, 63 A).
 These products cannot be used in France according to NF C 15-100. Product complies with the specifications of the Belgian market only. (Simultaneous tripping of the 3 poles and the N conductor.) Available for the export market only.

Instantaneous (only available in Belgium) ²⁾	SIGRES, instantaneous	Short-time delayed [G]	Super resistant [K]	Selective [S]		SIGRES, Selective [S]
400 V AC	400 V AC	400 V AC	400 V AC	400 V AC		400 V AC
Right	Right	Right	Right	Right	Left	Right
0000	0000	0000	0000	0000	0000	0000
					1	
0000	0000	2000	0000	0000	0000	2000
5SV3342-6BA	5SV3342-6KK12	-	5SV3342-6KK01	_	-	-
-	-	-	-	-	_	-
5SV3344-6BA	5SV3344-6KK12	5SV3344-6LB01	5SV3344-6KK01	-	_	-
-	-	-	-	-	_	-
-	-	5SV3344-6LA01	-	_	_	_
5SV3346-6BA	5SV3346-6KK12	5SV3346-6LB01	5SV3346-6KK01	-	_	-
-	-	-	-	-	_	-
-	-	5SV3346-6LA01	-	-	_	-
-	5SV3347-6KK12	5SV3347-6LB01	5SV3347-6KK01	_	_	_
-	_	-	_	-	_	-
-	-	5SV3444-6LB01	-	5SV3444-8	_	-
-	-	5SV3444-6LA01	-	5SV3444-8LA	_	_
-	-	5SV3446-6LB01	-	5SV3446-8	_	_
-	-	5SV3446-6LA01	-	5SV3446-8LA	_	-
-	-	-	-	-	_	-
5SV3642-6BA	5SV3642-6KK12	_	5SV3642-6KK01	5SV3642-8	_	_
5SV3644-6BA	5SV3644-6KK12	-	5SV3644-6KK01	5SV3644-8	_	-
-	-	-	-	5SV3644-8LA	_	-
5SV3646-6BA	5SV3646-6KK12	-	5SV3646-6KK01	5SV3646-8	5SV3646-8KL	5SV3646-8KK12
-	-	-	-	5SV3646-8LA	-	-
-	5SV3647-6KK12	-	5SV3647-6KK01	5SV3647-8	-	-
_	-	-	-	-	-	-
-	-	-	_	_	_	-
-	-	_	_	_	_	_
-	-	-	_	_	_	-
-	-	-	-	-	_	-
-	-	-	-	5SV3846-8	_	-

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC conta	act	5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO	contact (FC)	5ST3062
Shunt releases (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

Undervoltage releases	(UR)	Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	mechanisms	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechan	ism	Article No.
4 MW		5ST3820-6

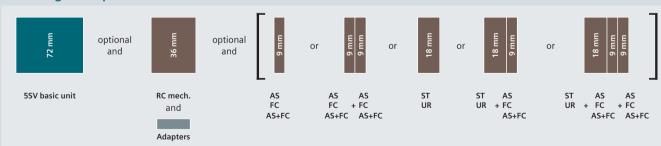
5SV RCCBs

Type F, 3P+N (4 MW)

Super resistant [K]	Selective [S]
400 V AC	400 V AC
Right	Right
0000	0000

$I_{\Delta n}$	l _n		
Type F			
30 mA	25 A	5SV3342-3	-
	40 A	5SV3344-3	-
	63 A	5SV3346-3	-
	80 A	5SV3347-3	-
300 mA	25 A	5SV3642-3	-
	40 A	5SV3644-3	5SV3644-7
	63 A	5SV3646-3	-
	80 A	5SV3647-3	5SV3647-7

Mounting concept



AS	Auxiliary switch	See page 4/56
FC	Fault signal contact	See page 4/57
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt release	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (F	FC)	Article No.
1 NO contact + 1 NC cor	ntact	5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auviliant switches and	Article No.	
Auxiliary switches and	fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO		5ST3062
1 CO contact (AS) + 1 CO		5ST3062
1 CO contact (AS) + 1 CO Shunt releases (ST)		5ST3062 Article No.

Undervoltage releases (UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	Article No.	
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechanism		Article No.
4 MW		5ST3820-6

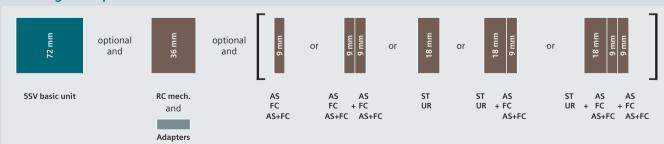
5SV3 RCCBs (SIQUENCE)

Type B, 1P+N (4 MW)



			The state of the s
$I_{\Delta n}$	I _n	Bulk packaging (18 units)	
Type B			
30 mA	16 A	-	5SV3321-4
	25 A	-	5SV3322-4
	40 A	-	5SV3324-4
		•	5SV3324-4GV01
	63 A	-	5SV3326-4
300 mA	16 A	-	5SV3621-4
	25 A	-	5SV3622-4
	40 A	-	5SV3624-4
	63 A	-	5SV3626-4

Mounting concept



Auxiliary switch See page 4/56 AS FC Fault signal contact See page 4/57 AS+FC Auxiliary switch and fault signal contact See page 4/58 See page 4/59 Shunt release ST Undervoltage release See page 4/60 RC mech. Remote controlled mechanism See page 4/61

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO o	contact (FC)	5ST3062
Shunt releases (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
24 40 V AC/DC		5515051

Undervoltage releases (UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	mechanisms	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechani	sm	Article No.
4 MW		5ST3820-6

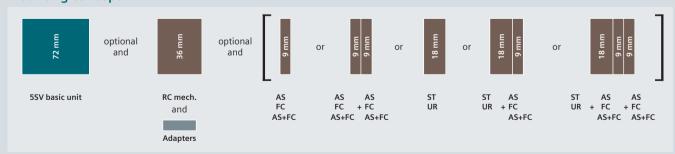
5SV3 RCCBs (SIQUENCE)

Type B and B +, 3P+N (4 MW)

	Super resistant [K]	Selective [S]
	230 400 V AC	230 400 V AC
N connection	Right	Right

I _n	Bulk packaging (18	units)	
25 A	-	5SV3342-4	-
		5SV3342-4GV01	-
40 A	-	5SV3344-4	-
		5SV3344-4GV01	-
63 A	-	5SV3346-4	-
		5SV3346-4GV01	-
80 A	-	5SV3347-4	-
25 A	-	5SV3642-4	-
		5SV3642-4GV01	-
40 A	_	5SV3644-4	-
		5SV3644-4GV01	-
63 A	_	5SV3646-4	5SV3646-5
		5SV3646-4GV01	-
80 A	_	5SV3647-4	5SV3647-5
25 A	-	5SV3742-4	-
40 A	-	5SV3744-4	-
63 A	-	5SV3746-4	5SV3746-5
80 A	-	5SV3747-4	5SV3747-5
25 A	-	5SV3342-4KK14	-
40 A	_	5SV3344-4KK14	-
63 A	-	5SV3346-4KK14	-
80 A	-	5SV3347-4KK14	-
25 A	-	5SV3642-4KK14	-
40 A	=	5SV3644-4KK14	-
63 A	_	5SV3646-4KK14	5SV3646-5KK14
	_		5SV3647-5KK14
	25 A 40 A 63 A 80 A	25 A	Bulk packaging (18 units) 25 A

Mounting concept



AS Auxiliary switch See page 4/56
FC Fault signal contact See page 4/57
AS+FC Auxiliary switch and fault signal contact See page 4/58
ST Shunt release See page 4/59
UR Undervoltage release See page 4/60
RC mech. Remote controlled mechanism See page 4/61

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO o	contact (FC)	5ST3062
Shunt releases (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
24 40 V AC/DC		5515051

Undervoltage releases (UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	mechanisms	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechani	sm	Article No.
4 MW		5ST3820-6

5SM3 RCCBs

Type AC and A, 1P+N (2 MW), high-current

	Instantaneous
	230 V AC
N connection	Right
	0.0

$I_{\Delta n}$	I _n	
Type AC		
30 mA	100 A	5SM3318-0KK
	125 A	5SM3315-0KK
100 mA	100 A	5SM3418-0KK
	125 A	5SM3415-0KK
300 mA	100 A	5SM3618-0KK
	125 A	5SM3615-0KK
Type A		
30 mA	100 A	5SM3318-6KK
	125 A	5SM3315-6KK
100 mA	100 A	5SM3418-6KK
	125 A	5SM3415-6KK
300 mA	100 A	5SM3618-6KK
	125 A	5SM3615-6KK

Type AC and A, 3P+N (4 MW), high-current

			Instantaneous	Selective [S]
			400 V AC	400 V AC
		N connection	Right	Right
Δn	I _n			
Гуре АС				
30 mA	100 A		5SM3348-0	-
	125 A		5SM3345-0	-
100 mA	100 A		5SM3448-0	-
	125 A		5SM3445-0	-
300 mA	100 A		5SM3648-0	5SM3648-2
	125 A		5SM3645-0	-
500 mA	100 A		5SM3748-0	-
	125 A		5SM3745-0	-
Гуре А				
30 mA	100 A		5SM3348-6	-
	125 A		5SM3345-6	-
100 mA	100 A		5SM3448-6	-
	125 A		5SM3445-6	-
300 mA	100 A		5SM3648-6	5SM3648-8
	125 A		5SM3645-6	5SM3645-8

5SM3748-6

5SM3745-6

System overview, page 4/4

500 mA

100 A

125 A

5SM3745-8

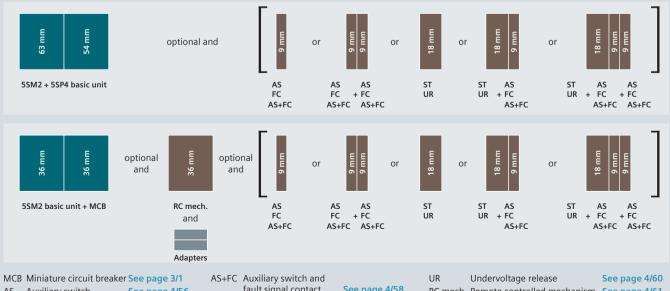
5SM2 RC units

Type AC, A and F, 2-pole

For 5SY miniature circuit breakers 1) 230 V AC **Version** Instantaneous Super resistant [K] Selective [S] 2 MW Mounting width 2 MW 2 MW

$I_{\Delta n}$	I _n				
Type AC					
10 mA	0.3 40 A	5SM2121-0	-	-	
30 mA	0.3 40 A	5SM2322-0	_	-	
	0.3 63 A	5SM2325-0	_	-	
	80 100 A	-	-	-	
300 mA	0.3 40 A	5SM2622-0	-	5SM2622-2	
	0.3 63 A	5SM2625-0	-	5SM2625-2	
	80 100 A	-	-	-	
500 mA	0.3 63 A	5SM2725-0	-	_	
1000 mA	0.3 63 A	5SM2825-0	-	-	
Type A					
10 mA	0.3 16 A	5SM2121-6	-	-	
30 mA	0.3 40 A	5SM2322-6	5SM2322-6KK01	-	
	0.3 63 A	5SM2325-6	5SM2325-6KK01	-	
	80 100 A	-	_	-	
100 mA	0.3 63 A	5SM2425-6	-	-	
300 mA	0.3 40 A	5SM2622-6	_	5SM2622-8	
	0.3 63 A	5SM2625-6	-	5SM2625-8	
	80 100 A	-	_	-	
500 mA	0.3 63 A	5SM2725-6	-	-	
1000 mA	0.3 40 A	-	-	5SM2822-8	
	0.3 63 A	-	-	5SM2825-8	
	80 100 A	-	-	-	
Type F					
30 mA	0.3 40 A	_	5SM2322-3	-	
	0.3 63 A	-	5SM2325-3	-	
1) but not for 5SY5 or 5SY	/8				

Mounting concept



AS Auxiliary switch See page 4/56 Fault signal contact See page 4/57 fault signal contact Shunt release

See page 4/58 See page 4/59

RC mech. Remote controlled mechanism See page 4/61

For 5SL4 miniature circuit breakers		For 5SP4 miniature circuit breakers (B and C characteristics)		
230 V AC		230 V AC		
Instantaneous	Selective [S]	Instantaneous	Selective [S]	
2 MW	2 MW	3.5 MW	3.5 MW	
G C C C C C	C e	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		
5SM2323-0		-	-	
5SM2326-0	-	-	-	
55W2326-U		5SM2327-0	-	
5SM2623-0	5SM2623-2	- -	-	
5SM2626-0	5SM2626-2	-	_	
33IVIZ020-0	55IVI2020-2	5SM2627-0	_	
			_	
		_	_	
_	_	-	_	
5SM2323-6	_	_	_	
5SM2326-6		_		
-	_	5SM2327-6	_	
		-	_	
5SM2623-6	5SM2623-8	_	_	
5SM2626-6	5SM2626-8	_	_	
		5SM2627-6	5SM2627-8	
		-	-	
		-	_	
_	_	_	_	
-	-	-	5SM2827-8	
-	-	-	-	
-	-	-	-	

Auxiliary switches (AS))	Article No.	
1 NO contact +	Standard	5ST3010	
1 NC contact	For low power	5ST3013	
	For low power (with diode)	5ST3013-0XX01	
2 NO contacts	Standard	5ST3011	
	For low power	5ST3014	
2 NC contacts	Standard	5ST3012	
	For low power	5ST3015	
1 CO contact	Standard	5ST3016	
Fault signal contacts (F	Fault signal contacts (FC)		
1 NO contact + 1 NC cor	ntact	5ST3020	
2 NO contacts		5ST3021	
2 NC contacts		5ST3022	
Auxiliary switches and	fault signal contacts (AS+FC)	Article No.	
1 CO contact (AS) + 1 Co	O contact (FC)	5ST3062	
Shunt releases (ST)		Article No.	
110 415 V AC		5ST3030	
24 48 V AC/DC		5ST3031	
12 V DC new		5ST3031-0XX01	

Undervoltage releases	(UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	mechanisms	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechan	ism	Article No.
5SM2 with 5SY (2P)		5ST3820-3 + 5ST3820-1
5SM2 with 5SL (2P)		5ST3820-3 + 5ST3820-6

5SM2 RC units

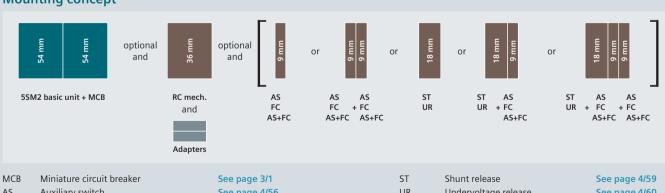
Type AC and A, 3-pole

Version Instanta		[1/]		400 V AC	l de la companya de	
	aneous Si	1 1 1 1/21		400 V AC		
		uper resistant [K]	Selective [S]	Instantaneous	Selective [S]	
Mounting width 3 MW	3	MW	3 MW	3 MW	3 MW	
To the second se	9	e e e	- E	e e e	e e e	

l _{Δn}	I _n					
Type AC						
30 mA	0.3 40 A	5SM2332-0	-	-	5SM2333-0	-
	0.3 63 A	5SM2335-0	-	_	5SM2336-0	-
300 mA	0.3 40 A	5SM2632-0	-	-	5SM2633-0	-
	0.3 63 A	5SM2635-0	-	_	5SM2636-0	-
500 mA	0.3 63 A	5SM2735-0	-	_	-	-
Type A						
30 mA	0.3 40 A	5SM2332-6	5SM2332-6KK01	-	5SM2333-6	-
	0.3 63 A	5SM2335-6	5SM2335-6KK01	-	5SM2336-6	-
100 mA	0.3 63 A	5SM2435-6	-	_	-	-
300 mA	0.3 40 A	5SM2632-6	-	-	5SM2633-6	-
	0.3 63 A	5SM2635-6	-	5SM2635-8	5SM2636-6	5SM2636-8
500 mA	0.3 63 A	5SM2735-6	_	5SM2735-8	-	-
1000 mA	0.3 40 A	-	-	5SM2832-8	-	-
	0.3 63 A	-	-	5SM2835-8	-	-

¹⁾ but not for 5SY5 or 5SY8

Mounting concept



MCB Miniature circuit breaker See page 3/1 ST Shunt release See page 4/59
AS Auxiliary switch See page 4/56 UR Undervoltage release See page 4/60
FC Fault signal contact See page 4/57 RC mech. Remote controlled mechanism See page 4/61
AS+FC Auxiliary switch and fault signal contact See page 4/58

Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO contact + 1 NC conta	ct	5ST3020
2 NO contacts	5ST3021	
2 NC contacts		5ST3022
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO c	ontact (FC)	5ST3062
Shunt releases (ST)		Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

Undervoltage releases (U	IR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC) n	nechanisms	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended	12 30 V AC, 12 48 V DC	5ST3070
function		
Adapter for RC mechanis	m	Article No.
5SM2 with 5SY (3P)		5ST3820-3 + 5ST3820-2
5SM2 with 5SL (3P)		5ST3820-3 + 5ST3820-7

400 V AC Version Instantaneous

For 5SY miniature circuit breakers 1)

5SM2 RC units

Type AC and A, 4-pole

	Mounting width	3 MW	3 MW	3 MW
l _{Δn}	I _n			
Type AC				
30 mA	0.3 40 A	5SM2342-0	-	-
	0.3 63 A	5SM2345-0	-	-
	80 100 A	_	_	-
300 mA	0.3 40 A	5SM2642-0	-	-
	0.3 63 A	5SM2645-0	-	5SM2645-2
	80 100 A	_	_	-
500 mA	0.3 63 A	5SM2745-0	_	-
1000 mA	0.3 63 A	-	-	5SM2845-2
Type A				
30 mA	0.3 40 A	5SM2342-6	5SM2342-6KK01	-
	0.3 63 A	5SM2345-6	5SM2345-6KK01	-
	80 100 A	_	_	-
100 mA	0.3 63 A	5SM2445-6	_	_
300 mA	0.3 40 A	5SM2642-6	-	-
	0.3 63 A	5SM2645-6	-	5SM2645-8
	80 100 A	_	_	-
500 mA	0.3 63 A	5SM2745-6	_	5SM2745-8
1000 mA	0.3 40 A	-	-	5SM2842-8
	0.3 63 A	-	-	5SM2845-8
	80 100 A	-	-	-

Super resistant [K]

Selective [S]

Mounting concept



¹⁾ but not for 5SY5 or 5SY8



5SM2343-0	-	-	-
5SM2346-0	-	-	-
-	-	5SM2347-0	-
5SM2643-0	-	-	-
5SM2646-0	5SM2646-2	-	-
-	-	5SM2647-0	-
-	-	-	-
-	-	-	-
5SM2343-6	-	-	-
5SM2346-6	-	-	-
-	-	5SM2347-6	-
-	-	-	-
5SM2643-6	-	-	-
5SM2646-6	5SM2646-8	-	-
-	-	5SM2647-6	5SM2647-8
-	-	-	-
-	-	_	-
-	-	-	-
-	-	-	5SM2847-8

Auxiliary switches (AS)		Article No.	
1 NO contact +	Standard	5ST3010	
1 NC contact	For low power	5ST3013	
	For low power (with diode)	5ST3013-0XX01	
2 NO contacts	Standard	5ST3011	
	For low power	5ST3014	
2 NC contacts	Standard	5ST3012	
	For low power	5ST3015	
1 CO contact	Standard	5ST3016	
Fault signal contacts (FC)	Fault signal contacts (FC)		
1 NO contact + 1 NC conta	1 NO contact + 1 NC contact		
2 NO contacts	2 NO contacts		
2 NC contacts		5ST3022	
Auxiliary switches and fa	ult signal contacts (AS+FC)	Article No.	
1 CO contact (AS) + 1 CO c	1 CO contact (AS) + 1 CO contact (FC)		
Shunt releases (ST)	Shunt releases (ST)		
110 415 V AC	110 415 V AC		
24 48 V AC/DC		5ST3031	
12 V DC new		5ST3031-0XX01	

Undervoltage releases	(UR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled (RC)	mechanisms	Article No.
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechan	ism	Article No.
5SM2 with 5SY (4P)		5ST3820-3 + 5ST3820-2
5SM2 with 5SL (4P)		5ST3820-3 + 5ST3820-7

System overview, page 4/4

5SU1 RCBOs

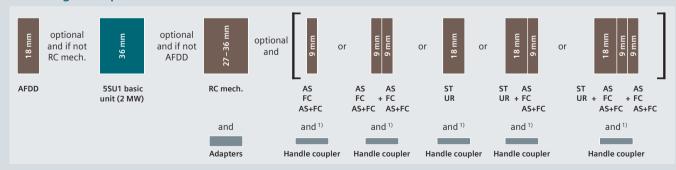
Type AC, 1P+N

Mounting width
Short-circuit breaking capacity
N connection

	Instantaneous		
	230 V AC		
	2 MW	2 MW	2 MW
,	4.5 kA	4.5 kA	6 kA
	Right	Left	Right
	6.6	6.6	G · G ·

l _{Δn}	l _n	Bulk packaging	Characteristic		Characteristic		
		(36 units)	С	С	В	С	
Type AC							
30 mA	6 A	-	5SU1353-1KK06	5SU1353-1KL06	5SU1356-0KK06	5SU1356-1KK06	
	8 A	_	5SU1353-1KK08	_	_	5SU1356-1KK08	
	10 A	-	5SU1353-1KK10	5SU1353-1KL10	5SU1356-0KK10	5SU1356-1KK10	
			5SU1353-1GV10	_	_	_	
	13 A	_	5SU1353-1KK13	5SU1353-1KL13	5SU1356-0KK13	5SU1356-1KK13	
	16 A	-	5SU1353-1KK16	5SU1353-1KL16	5SU1356-0KK16	5SU1356-1KK16	
		•	5SU1353-1GV16	-	-	5SU1356-1GV16	
	20 A	-	5SU1353-1KK20	5SU1353-1KL20	5SU1356-0KK20	5SU1356-1KK20	
	25 A	-	5SU1353-1KK25	5SU1353-1KL25	5SU1356-0KK25	5SU1356-1KK25	
	32 A	-	5SU1353-1KK32	5SU1353-1KL32	5SU1356-0KK32	5SU1356-1KK32	
	40 A	_	5SU1353-1KK40	5SU1353-1KL40	5SU1356-0KK40	5SU1356-1KK40	
100 mA	6 A	_	_	_	_	_	
	10 A	-	-	-	-	_	
	13 A	-	-	-	-	_	
	16 A	-	-	-	-	_	
	20 A	-	-	_	_	_	
	25 A	-	_	-	-	_	
	32 A	_	_	-	-	_	
	40 A	-	_	_	_	_	
300 mA	6 A	-	5SU1653-1KK06	5SU1653-1KL06	5SU1656-0KK06	5SU1656-1KK06	
	10 A	_	5SU1653-1KK10	5SU1653-1KL10	5SU1656-0KK10	5SU1656-1KK10	
	13 A	-	5SU1653-1KK13	5SU1653-1KL16	5SU1656-0KK13	5SU1656-1KK13	
	16 A	-	5SU1653-1KK16	-	5SU1656-0KK16	5SU1656-1KK16	
			5SU1653-1GV16	-	-	_	
	20 A	-	5SU1653-1KK20	5SU1653-1KL20	5SU1656-0KK20	5SU1656-1KK20	
	25 A	-	5SU1653-1KK25	5SU1653-1KL25	5SU1656-0KK25	5SU1656-1KK25	
	32 A	-	5SU1653-1KK32	5SU1653-1KL32	5SU1656-0KK32	5SU1656-1KK32	
	40 A	-	5SU1653-1KK40	5SU1653-1KL40	5SU1656-0KK40	5SU1656-1KK40	

Mounting concept



¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

See page 4/59 AFDD Arc fault detection device See page 4/52 ST Shunt release AS Auxiliary switch See page 4/56 Undervoltage release See page 4/60 Fault signal contact See page 4/57 RC mech. Remote controlled mechanism See page 4/61 AS+FC Auxiliary switch and fault signal contact See page 4/58



Characteristic		Characteristic		
В	С	В	С	
5SU1354-0KK06	5SU1354-1KK06	-	-	
-	5SU1354-1KK08	-	-	
5SU1354-0KK10	5SU1354-1KK10	5SU1354-0LB10	5SU1354-1LB10	
-	-	-	-	
5SU1354-0KK13	5SU1354-1KK13	5SU1354-0LB13	5SU1354-1LB13	
5SU1354-0KK16	5SU1354-1KK16	5SU1354-0LB16	5SU1354-1LB16	
-	-	-	-	
5SU1354-0KK20	5SU1354-1KK20	5SU1354-0LB20	5SU1354-1LB20	
5SU1354-0KK25	5SU1354-1KK25	5SU1354-0LB25	5SU1354-1LB25	
5SU1354-0KK32	5SU1354-1KK32	5SU1354-0LB32	5SU1354-1LB32	
5SU1354-0KK40	5SU1354-1KK40	5SU1354-0LB40	5SU1354-1LB40	
_	5SU1454-1KK06	-	-	
-	5SU1454-1KK10	-	-	
-	5SU1454-1KK13	-	-	
-	5SU1454-1KK16	-	-	
_	5SU1454-1KK20	-	-	
-	5SU1454-1KK25	-	-	
-	5SU1454-1KK32	-	-	
-	5SU1454-1KK40	-	-	
5SU1654-0KK06	5SU1654-1KK06	-	-	
5SU1654-0KK10	5SU1654-1KK10	-	-	
5SU1654-0KK13	5SU1654-1KK13	-	-	
5SU1654-0KK16	5SU1654-1KK16	-	-	
-	_	-	-	
5SU1654-0KK20	5SU1654-1KK20	-	-	
5SU1654-0KK25	5SU1654-1KK25	-	-	
5SU1654-0KK32	5SU1654-1KK32	-	-	
5SU1654-0KK40	5SU1654-1KK40	-	-	

Auxiliary switches	s (AS)	Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal conta	Article No.	
1 NO contact + 1 N	5ST3020	
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches	and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) -	+ 1 CO contact (FC)	5ST3062
Shunt releases (ST	Γ)	Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

Undervoltage releases (l	JR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Handle couplers for AS, I	FC, AS+FC, ST and UR	Article No.
1 set = 5 units		5ST3805-1
Remote controlled (RC) r	nechanisms	Article No.
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with ext. function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechanis	sm	Article No.
2 MW		5ST3820-5
Arc fault detection device	es (AFDD)	Article No.
For 5SU1 basic units	I _n up to 16 A	5SM6021-2
	I _n up to 40 A	5SM6024-2

5SU1 RCBOs

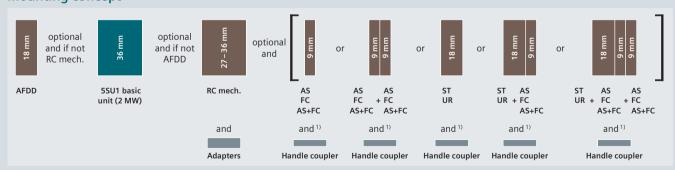
Type A, 1P+N

Mounting width
Short-circuit breaking capacity
N connection

	Instantaneous		
	230 V AC		
h	2 MW	2 MW	2 MW
y	4.5 kA	4.5 kA	6 kA
n	Right	Left	Right
	6 . 6	G · G	

		Bulk packaging	Characteristic		Characteristic	
$I_{\Delta n}$	I _n	(36 units)	C	С	В	С
Type A		(30 dilits)				
10 mA	6 A	_	_	_	_	-
10 11//	10 A		_			
	13 A			-		-
		_	_	_	_	-
20 4	16 A		- FCU12F2 7KK06	- FCU12F2 7KL06		- - -
30 mA	6 A		5SU1353-7KK06	5SU1353-7KL06	5SU1356-6KK06	5SU1356-7KK06
		•	-	-	5SU1356-6GV06	5SU1356-7GV06
	8 A	_	5SU1353-7KK08	_	_	5SU1356-7KK08
	10 A	-	5SU1353-7KK10	5SU1353-7KL10	5SU1356-6KK10	5SU1356-7KK10
			-	_	5SU1356-6GV10	5SU1356-7GV10
	13 A	-	5SU1353-7KK13	-	5SU1356-6KK13	5SU1356-7KK13
	16 A	-	5SU1353-7KK16	5SU1353-7KL16	5SU1356-6KK16	5SU1356-7KK16
			_	-	5SU1356-6GV16	5SU1356-7GV16
	20 A	_	5SU1353-7KK20	5SU1353-7KL20	5SU1356-6KK20	5SU1356-7KK20
	25 A	_	5SU1353-7KK25	5SU1353-7KL25	5SU1356-6KK25	5SU1356-7KK25
	32 A	_	5SU1353-7KK32	5SU1353-7KL32	5SU1356-6KK32	5SU1356-7KK32
	40 A	-	5SU1353-7KK40	5SU1353-7KL40	5SU1356-6KK40	5SU1356-7KK40
300 mA	6 A	-	5SU1653-7KK06	-	5SU1656-6KK06	5SU1656-7KK06
	10 A	-	5SU1653-7KK10	-	5SU1656-6KK10	5SU1656-7KK10
	13 A	_	5SU1653-7KK13	-	5SU1656-6KK13	5SU1656-7KK13
	16 A	_	5SU1653-7KK16	-	5SU1656-6KK16	5SU1656-7KK16
	20 A	_	5SU1653-7KK20	-	5SU1656-6KK20	5SU1656-7KK20
	25 A	-	5SU1653-7KK25	-	5SU1656-6KK25	5SU1656-7KK25
	32 A	-	5SU1653-7KK32	-	5SU1656-6KK32	5SU1656-7KK32
	40 A	-	5SU1653-7KK40	-	5SU1656-6KK40	5SU1656-7KK40

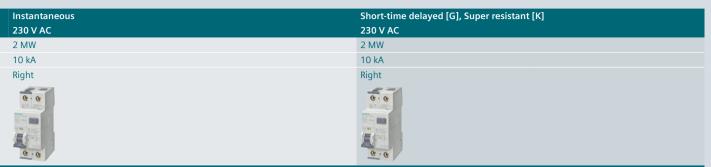
Mounting concept



¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

AFDD Arc fault detection device See page 4/52
AS Auxiliary switch See page 4/56
FC Fault signal contact See page 4/57
AS+FC Auxiliary switch and fault signal contact See page 4/58

ST Shunt release See page 4/59
UR Undervoltage release See page 4/60
RC mech. Remote controlled mechanism See page 4/61



Characteristic		Characteristic	
В	С	В	С
5SU1154-6KK06	5SU1154-7KK06	-	-
5SU1154-6KK10	5SU1154-7KK10	-	-
5SU1154-6KK13	5SU1154-7KK13	-	-
5SU1154-6KK16	5SU1154-7KK16	-	-
5SU1354-6KK06	5SU1354-7KK06	-	-
5SU1354-6GV06	5SU1354-7GV06	-	-
-	5SU1354-7KK08	-	-
5SU1354-6KK10	5SU1354-7KK10	5SU1354-6LB10	5SU1354-7LB10
5SU1354-6GV10	5SU1354-7GV10	-	-
5SU1354-6KK13	5SU1354-7KK13	5SU1354-6LB13	5SU1354-7LB13
5SU1354-6KK16	5SU1354-7KK16	5SU1354-6LB16	5SU1354-7LB16
5SU1354-6GV16	5SU1354-7GV16	-	-
5SU1354-6KK20	5SU1354-7KK20	5SU1354-6LB20	5SU1354-7LB20
5SU1354-6KK25	5SU1354-7KK25	5SU1354-6LB25	5SU1354-7LB25
5SU1354-6KK32	5SU1354-7KK32	5SU1354-6LB32	5SU1354-7LB32
5SU1354-6KK40	5SU1354-7KK40	5SU1354-6LB40	5SU1354-7LB40
5SU1654-6KK06	5SU1654-7KK06	-	-
5SU1654-6KK10	5SU1654-7KK10	_	-
5SU1654-6KK13	5SU1654-7KK13	-	-
5SU1654-6KK16	5SU1654-7KK16	-	-
5SU1654-6KK20	5SU1654-7KK20	_	-
5SU1654-6KK25	5SU1654-7KK25	_	-
5SU1654-6KK32	5SU1654-7KK32	-	-
5SU1654-6KK40	5SU1654-7KK40	-	-

Auxiliary switches	(AS)	Article No.		
1 NO contact +	Standard	5ST3010		
1 NC contact	For low power	5ST3013		
	For low power (with diode)	5ST3013-0XX01		
2 NO contacts	Standard	5ST3011		
	For low power	5ST3014		
2 NC contacts	Standard	5ST3012		
	For low power	5ST3015		
1 CO contact	Standard	5ST3016		
Fault signal contact	Article No.			
1 NO contact + 1 NO	contact	5ST3020		
2 NO contacts		5ST3021		
2 NC contacts		5ST3022		
Auxiliary switches	and fault signal contacts (AS+FC)	Article No.		
1 CO contact (AS) +	1 CO contact (FC)	5ST3062		
Shunt releases (ST)	Article No.			
110 415 V AC	5ST3030			
24 48 V AC/DC	24 48 V AC/DC			
12 V DC new		5ST3031-0XX01		

Undervoltage releases (l	JR)	Article No.
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Handle couplers for AS, I	C, AS+FC, ST and UR	Article No.
1 set = 5 units		5ST3805-1
Remote controlled (RC) r	nechanisms	Article No.
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with ext. function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechanis	m	Article No.
2 MW		5ST3820-5
Arc fault detection device	es (AFDD)	Article No.
For 5SU1 basic units	I _n up to 16 A	5SM6021-2
	I _n up to 40 A	5SM6024-2

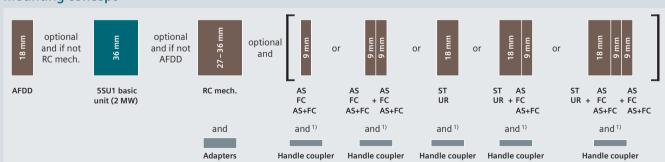
5SU1 RCBOs

Type F, 1P+N



I _{Δn}	l _n	Characteristic		
		В	С	
Type F				
30 mA	6 A	5SU1354-3KK06	5SU1354-4KK06	
	10 A	5SU1354-3KK10	5SU1354-4KK10	
	13 A	5SU1354-3KK13	5SU1354-4KK13	
	16 A	5SU1354-3KK16	5SU1354-4KK16	
	20 A	5SU1354-3KK20	5SU1354-4KK20	
	25 A	5SU1354-3KK25	5SU1354-4KK25	
	32 A	5SU1354-3KK32	5SU1354-4KK32	
	40 A	5SU1354-3KK40	5SU1354-4KK40	

Mounting concept



¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

See page 4/59 AFDD Arc fault detection device See page 4/52 ST Shunt release AS Auxiliary switch See page 4/56 UR Undervoltage release See page 4/60 See page 4/57 FC Fault signal contact RC mech. Remote controlled mechanism See page 4/61 AS+FC Auxiliary switch and fault signal contact See page 4/58

Auxiliary switches	(AS)	Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contac	ts (FC)	Article No.
1 NO contact + 1 NO	5ST3020	
2 NO contacts	5ST3021	
2 NC contacts	5ST3022	
Auxiliary switches	and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) +	1 CO contact (FC)	5ST3062
Shunt releases (ST)	Article No.	
110 415 V AC	5ST3030	
24 48 V AC/DC		5ST3031
12 V DC new		5ST3031-0XX01

Undervoltage releases (l	Article No.	
With integrated	230 V AC	5ST3040
auxiliary switch	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated	230 V AC	5ST3043
auxiliary switch	110 V DC	5ST3044
	24 V DC	5ST3045
Handle couplers for AS, I	FC, AS+FC, ST and UR	Article No.
1 set = 5 units		5ST3805-1
Remote controlled (RC) r	Article No.	
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with ext. function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechanis	sm	Article No.
2 MW		5ST3820-5
Arc fault detection device	es (AFDD)	Article No.
For 5SU1 basic units	I _n up to 16 A	5SM6021-2
	I _n up to 40 A	5SM6024-2

Manustina width

5SU1 RCBOs

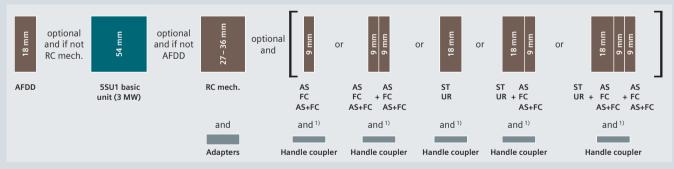
Type AC and A, 2-pole

	Mounting width	3 MW		3 MW	
	Short-circuit breaking capacity	10 kA		10 kA	
$I_{\Delta n}$	I _n	Characteristic		Characteristic	
		В	С	В	
Type AC					
30 mA	125 A	-	_	-	
300 mA	125 A	-	-	-	
Type A					
30 mA	6 A	5SU1324-6KX06	5SU1324-7KX06	5SU1324-6FA06	
	10 A	5SU1324-6KX10	5SU1324-7KX10	5SU1324-6FA10	
	13 A	5SU1324-6KX13	5SU1324-7KX13	5SU1324-6FA13	
	16 A	5SU1324-6KX16	5SU1324-7KX16	5SU1324-6FA16	
	20 A	5SU1324-6KX20	5SU1324-7KX20	5SU1324-6FA20	
	25 A	5SU1324-6KX25	5SU1324-7KX25	5SU1324-6FA25	
	32 A	5SU1324-6KX32	5SU1324-7KX32	5SU1324-6FA32	
	40 A	5SU1324-6KX40	5SU1324-7KX40	5SU1324-6FA40	
	125 A	-	-	-	
300 mA	125 A	-	_	-	

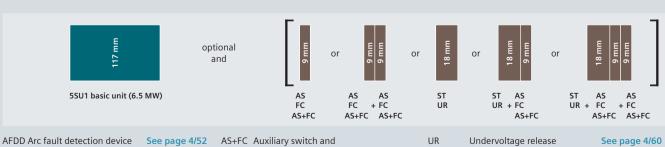
Instantaneous

110 V AC

Mounting concept



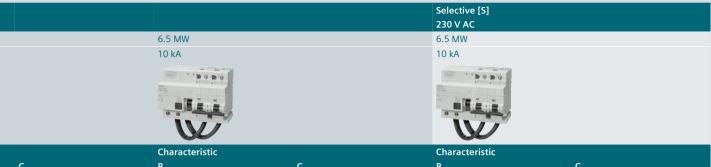
¹⁾ Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.



AFDD Arc fault detection devic AS Auxiliary switch FC Fault signal contact See page 4/52 See page 4/56 See page 4/57 AS+FC Auxiliary switch and fault signal contact ST Shunt release

See page 4/58 See page 4/59 UR Undervoltage release See page 4/60 RC mech. Remote controlled mechanism See page 4/61

230 V AC



	Characteristic		Characteristic	
С	В	C	В	С
-	5SU1324-0KK82	5SU1324-1KK82	_	-
-	5SU1624-0KK82	5SU1624-1KK82	-	-
5SU1324-7FA06	-	-	_	-
5SU1324-7FA10	-	-	_	-
5SU1324-7FA13	-	-	-	-
5SU1324-7FA16	-	-	-	-
5SU1324-7FA20	-	-	-	-
5SU1324-7FA25	-	-	-	-
5SU1324-7FA32	-	-	-	-
5SU1324-7FA40	-	-	-	-
-	5SU1324-6KK82	5SU1324-7KK82	-	-
-	5SU1624-6KK82	5SU1624-7KK82	5SU1624-6WK82	5SU1624-7WK82

Auxiliary switches	(AS)	Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contact	cts (FC)	Article No.
1 NO contact + 1 N	C contact	5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches	and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) +	- 1 CO contact (FC)	5ST3062
Shunt releases (ST)	Article No.
110 415 V AC		5ST3030
24 48 V AC/DC		5ST3031

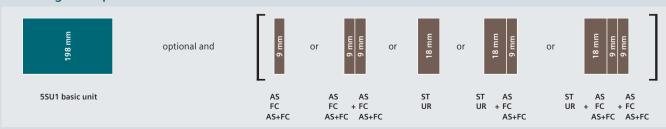
Undervoltage releases (l	JR)	Article No.			
With integrated	230 V AC	5ST3040			
auxiliary switch	110 V DC	5ST3041			
	24 V DC	5ST3042			
Without integrated	230 V AC	5ST3043			
auxiliary switch	110 V DC	5ST3044			
	24 V DC	5ST3045			
Handle couplers for AS, I	C, AS+FC, ST and UR	Article No.			
1 set = 5 units		5ST3805-1			
Remote controlled (RC) r	nechanisms	Article No.			
Basic	12 30 V AC, 12 48 V DC	5ST3053			
	177 270 V AC	5ST3054			
Power	12 30 V AC, 12 48 V DC	5ST3055			
	177 270 V AC	5ST3056			
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057			
	177 270 V AC	5ST3058			
Power with ext. function	12 30 V AC, 12 48 V DC	5ST3070			
Adapter for RC mechanis	Adapter for RC mechanism				
2 MW		5ST3820-5			
Arc fault detection device	es (AFDD)	Article No.			
For 5SU1 basic units	I _n up to 16 A	5SM6021-2			
(3 MW)	I _p up to 40 A	5SM6024-2			

5SU1 RCBOs

Type AC and A, 4-pole

		Instantaneous		Selective [S]	
		400 V AC		400 V AC	
	Mounting width	11 MW		11 MW	
Sho	rt-circuit breaking capacity	10 kA		10 kA	
$I_{\Delta n}$	l _n	Characteristic		Characteristic	
		В	С	В	С
Type AC					
30 mA	125 A	5SU1344-0KK82	5SU1344-1KK82	-	-
300 mA	125 A	5SU1644-0KK82	5SU1644-1KK82	-	-
Type A					
30 mA	125 A	5SU1344-6KK82	5SU1344-7KK82	-	-
300 mA	125 A	5SU1644-6KK82	5SU1644-7KK82	5SU1644-6WK82	5SU1644-7WK82
1000 mA	125 A			5SU1844-6WK82	5SU1844-7WK82

Mounting concept



AS Auxiliary switch
FC Fault signal contact
AS+FC Auxiliary switch and fault signal contact

See page 4/56 See page 4/57 See page 4/58 ST Shunt release UR Undervoltage release See page 4/59 See page 4/60

Auxiliary switches (A	Article No.	
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts	(FC)	Article No.
1 NO contact + 1 NC	5ST3020	
2 NO contacts	5ST3021	
2 NC contacts		5ST3022

Auxiliary switches and fa	Article No.			
1 CO contact (AS) + 1 CO c	contact (FC)	5ST3062		
Shunt releases (ST)		Article No.		
110 415 V AC		5ST3030		
24 48 V AC/DC		5ST3031		
12 V DC new	12 V DC new			
Undervoltage releases (U	IR)	Article No.		
With integrated	230 V AC	5ST3040		
auxiliary switch	110 V DC	5ST3041		
	24 V DC	5ST3042		
Without integrated	230 V AC	5ST3043		
auxiliary switch	110 V DC	5ST3044		
	24 V DC	5ST3045		

5SV1 RCBOs

Type AC, 1P+N

Instantaneous
230 V AC

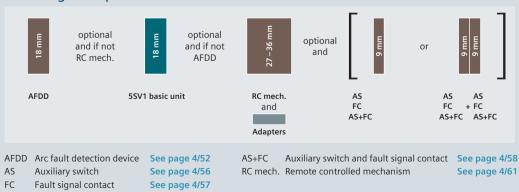
Mounting width
Short-circuit breaking capacity
N connection

Right

Right

I _{Δn}	I _n	Bulk packaging	Characteristic	Characteristic	
		(12 units)	С	В	С
Type AC					
30 mA	2 A	-	5SV1313-1KK02	-	5SV1316-1KK02
	4 A	-	5SV1313-1KK04	-	5SV1316-1KK04
	6 A	-	5SV1313-1KK06	5SV1316-0KK06	5SV1316-1KK06
	10 A	-	5SV1313-1KK10	5SV1316-0KK10	5SV1316-1KK10
			-	-	5SV1316-1GV10
	13 A	_	5SV1313-1KK13	5SV1316-0KK13	5SV1316-1KK13
	16 A	-	5SV1313-1KK16	5SV1316-0KK16	5SV1316-1KK16
			-	-	5SV1316-1GV16

Mounting concept



Auxiliary switches (AS)		Article No.			
1 NO contact +	Standard	5ST3010			
1 NC contact	For low power	5ST3013			
	For low power (with diode)	5ST3013-0XX01			
2 NO contacts	Standard	5ST3011			
	For low power	5ST3014			
2 NC contacts	Standard	5ST3012			
	For low power	5ST3015			
1 CO contact	Standard	5ST3016			
Fault signal contacts (FC)	Article No.			
1 NO contact + 1 NC conta	act	5ST3020			
2 NO contacts		5ST3021			
2 NC contacts	5ST3022				
Auxiliary switches and fa	Auxiliary switches and fault signal contacts (AS+FC)				
1 CO contact (AS) + 1 CO	contact (FC)	5ST3062			

Remote controlled (RC) n	Article No.		
Basic	12 30 V AC, 12 48 V DC	5ST3053	
	177 270 V AC	5ST3054	
Power	12 30 V AC, 12 48 V DC	5ST3055	
	177 270 V AC	5ST3056	
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057	
	177 270 V AC	5ST3058	
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070	
Adapter for RC mechanis	m	Article No.	
1 MW	1 MW		
Arc fault detection device	Article No.		
For 5SV1 basic units	I _n up to 16 A	5SM6011-2	

5SV1 RCBOs

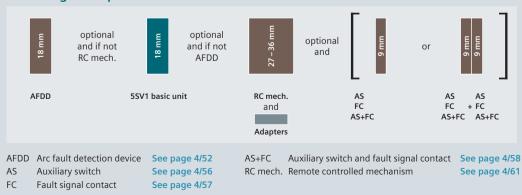
Type A, 1P+N

Instantaneous
230 V AC

Mounting width
1 MW
1 MW
Short-circuit breaking capacity
N connection
Right
Right

			-6	-6	
$I_{\Delta n}$	l _n	Bulk packaging	Characteristic	Characteristic	
		(12 units)	С	В	С
Type A					
30 mA	2 A	-	5SV1313-1KK02	-	5SV1316-7KK02
	4 A	-	5SV1313-1KK04	-	5SV1316-7KK04
	6 A	-	5SV1313-1KK06	5SV1316-6KK06	5SV1316-7KK06
			-	5SV1316-6GV06	5SV1316-7GV06
	10 A	-	5SV1313-1KK10	5SV1316-6KK10	5SV1316-7KK10
			5SV1313-1GV10	5SV1316-6GV10	5SV1316-7GV10
	13 A	-	5SV1313-1KK13	5SV1316-6KK13	5SV1316-7KK13
		•	-	5SV1316-6GV13	5SV1316-7GV13
	16 A	-	5SV1313-1KK16	5SV1316-6KK16	5SV1316-7KK16
			5SV1313-1GV16	5SV1316-6GV16	5SV1316-7GV16

Mounting concept



Auxiliary switches (AS)		Article No.
1 NO contact +	Standard	5ST3010
1 NC contact	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC))	Article No.
1 NO contact + 1 NC conta	ict	5ST3020
2 NO contacts		5ST3021
2 NC contacts	5ST3022	
Auxiliary switches and fa	Article No.	
1 CO contact (AS) + 1 CO o	contact (FC)	5ST3062

Remote controlled (RC) r	mechanisms	Article No.
Basic	12 30 V AC, 12 48 V DC	5ST3053
	177 270 V AC	5ST3054
Power	12 30 V AC, 12 48 V DC	5ST3055
	177 270 V AC	5ST3056
Power with ARD	12 30 V AC, 12 48 V DC	5ST3057
	177 270 V AC	5ST3058
Power with extended function	12 30 V AC, 12 48 V DC	5ST3070
Adapter for RC mechanis	sm	Article No.
1 MW		5ST3820-6
Arc fault detection device	Article No.	
For 5SV1 basic units	I _n up to 16 A	5SM6011-2

5SM6 arc fault detection devices

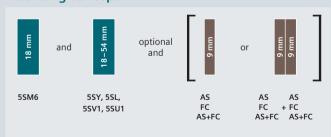
For combination with an MCB or RCBO



For combination with	n basic units		Rated current I _n	
Width of basic unit	Miniature circuit breakers	RCBO		
1 MW	5SL60 (no KL types)	5SV1	Up to 16 A	5SM6011-2
			Up to 40 A	5SM6014-2
2 MW	5SY ¹⁾ , 5SL4	5SU1 (2 MW, 3 MW)	Up to 16 A	5SM6021-2
	(only 1+N devices)		Up to 40 A	5SM6024-2

¹⁾ but not for 5SY5 or 5SY8

Mounting concept



Auxiliary switch See page 4/56 AS FC Fault signal contact See page 4/57 AS+FC Auxiliary switch and fault signal contact See page 4/58

The mounting concept shown is only one example of how devices and accessories can be combined.

Accessories

Auxiliary switches (AS)		Article No.				
1 NO contact +	Standard	5ST3010				
1 NC contact	For low power	5ST3013				
	For low power (with diode)	5ST3013-0XX01				
2 NO contacts	Standard	5ST3011				
	For low power	5ST3014				
2 NC contacts	Standard	5ST3012				
	For low power	5ST3015				
1 CO contact	Standard	5ST3016				
Fault signal contacts (F	5)	Article No.				
1 NO contact + 1 NC con	tact	5ST3020				
2 NO contacts		5ST3021				
2 NC contacts	5ST3022					
Auxiliary switches and	Article No.					
1 CO contact (AS) + 1 CO	1 CO contact (AS) + 1 CO contact (FC)					

Suitable busbars, page 4/64 onwards Suitable terminals and end caps, page 4/64 onwards

5SV6 arc fault detection devices

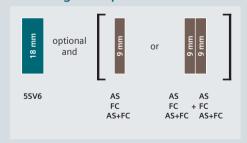
With integrated miniature circuit breaker





		,	
Rated current I _n	Bulk packaging	Characteristic	
	(12 units)	В	С
6 A	-	5SV6016-6KK06	5SV6016-7KK06
		5SV6016-6GV06	5SV6016-7GV06
10 A	-	5SV6016-6KK10	5SV6016-7KK10
	•	5SV6016-6GV10	5SV6016-7GV10
13 A	-	5SV6016-6KK13	5SV6016-7KK13
	•	5SV6016-6GV13	-
16 A	-	5SV6016-6KK16	5SV6016-7KK16
		5SV6016-6GV16	5SV6016-7GV16
20 A	-	5SV6016-6KK20	5SV6016-7KK20
25 A	-	5SV6016-6KK25	5SV6016-7KK25
	•	5SV6016-6GV25	-
32 A	-	5SV6016-6KK32	5SV6016-7KK32
40 A	-	5SV6016-6KK40	5SV6016-7KK40

Mounting concept



AS Auxiliary switch See page 4/56
FC Fault signal contact See page 4/57
AS+FC Auxiliary switch and fault signal contact See page 4/58

Accessories

Auxiliary switches (A	S)	Article No.		
1 NO contact +	Standard	5ST3010		
1 NC contact	For low power	5ST3013		
	For low power (with diode)	5ST3013-0XX01		
2 NO contacts	Standard	5ST3011		
	For low power	5ST3014		
2 NC contacts	Standard	5ST3012		
	For low power	5ST3015		
1 CO contact	Standard	5ST3016		
Fault signal contacts	(FC)	Article No.		
1 NO contact + 1 NC c	ontact	5ST3020		
2 NO contacts		5ST3021		
2 NC contacts	5ST3022			
Auxiliary switches ar	Article No.			
1 CO contact (AS) + 1	1 CO contact (AS) + 1 CO contact (FC)			

Suitable busbars, page 4/64 onwards Suitable terminals and end caps, page 4/64 onwards

Overview of modular system

Residual current

					. 0	
				5SV	5SM3	5SM2 + MCB
5SM6 arc faul	t detection devices		Article No.			
	Rated current up to 16 A	Standard	5SM6021-2	_	_	-
Alexander of the second		For compact devices 1P+N in 1 MW	5SM6011-2	_	_	_
	Rated current up to 40 A	Standard	5SM6024-2	_	_	-
		For compact devices 1P+N in 1 MW	5SM6014-2	_	_	_
Auxiliary swi			Article No.			
	1 NO contact + 1 NC contact	Standard	5ST3010	-	-	•
29		For low power	5ST3013	•	-	•
		For low power (with diode)	5ST3013-0XX01	-		•
40	2 NO contacts	Standard	5ST3011		-	•
		For low power	5ST3014	•		•
	2 NC contacts	Standard	5ST3012		-	•
		For low power	5ST3015		_	•
	1 CO contact	Standard	5ST3016		-	•
Fault signal c	ontacts (FC)		Article No.			
<i>A</i>	1 NO contact + 1 NC contact		5ST3020		-	
	2 NO contacts		5ST3021		-	•
	2 NC contacts		5ST3022		_	
A						
Ailiam. ai		AS : EC)	Autiala Na			
Auxiliary swi	tches and fault signal contacts (Article No.			
	1 CO contact (AS) +	Standard	5ST3062	•	_	•
Church volence	1 CO contact (FC)		Autiala Na			
Shunt release			Article No.			
	110 415 V AC		5ST3030	•	_	•
	24 48 V AC/DC		5ST3031	•	-	•
	12 V DC new		5ST3031-0XX01	•	_	•
The same of the sa						
Undervoltage	releases (UR)		Article No.			
*	With integrated auxiliary switch	230 V AC	5ST3040		-	
		110 V DC	5ST3041		-	•
		24 V DC	5ST3042		-	
E	Without integrated	230 V AC	5ST3043	•	_	
	auxiliary switch	110 V DC	5ST3044		-	
		24 V DC	5ST3045		_	
Remote conti	rolled (RC) mechanisms		Article No.			
	Basic	12 30 V AC, 12 48 V DC	5ST3053	-	_	_
		177 270 V AC	5ST3054	_	_	_
-	Power	12 30 V AC, 12 48 V DC	5ST3055			•
-		177 270 V AC	5ST3056		_	
-	Power with ARD	12 30 V AC, 12 48 V DC	5ST3057		_	-
		177 270 V AC	5ST3058		_	•
	Power with extended function	12 30 V AC, 12 48 V DC	5ST3070			-
Standard bus		12 30 V //C, 12 40 V DC	Article No.	_		•
Standard bus	Cannot be cut		5ST36		_	
N N N N N	Can be cut		5ST37	- : -		- :
C **						
Compact bus			Article No.			
ALCOHOLD !	Cannot be cut		5ST36	•	-	-
	Can be cut		5ST37	•	-	-
					From page 4/	14
■ Suitable for all v	ersions	☐ Suitable for some versions				

protective d	evices			Arc fault o					Miniatur	e circuit	breaker	S			Device protection switches	Swite	ching vices
	6.6											0					
5SM2+5SP4	5SU1	5SU1 (125 A)	5SV1	5SM6	5SV6	5SL3	5SL6	5SL4	5SJ6KS	5SL30	5SL60	5SY	5SP4	5SJ4HG	5SY17	5TE8	5TL
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	- From p	page 4/14		From pag	JE 4/32					From page 3/1					From page 3/40	From pa	age 5/6

Electrical accessories

Auxiliary switches (AS)

- Signals contact point of the mounted device
- Version for the switching of small currents and voltages for the control of programmable control systems (PLCs) according to EN 61131-2
- Test button enables the testing of control circuits without the need to switch the mounted device

For combin	ation with ba	sic units				Contacts	Version	Width	Article No.		
Miniature circuit breakers	Device protection switches	RCCBs	RCBOs	Arc fault detection devices	ON/OFF switches			(1 MW = 18 mm)			
Auxiliary sw	itches (AS)										
_	_	5SM3 (3P+N, 100/125 A)	-	-	-	1 NO contact + 1 NC contact	Standard	0.5 MW	5SW3330		
5SL, 5SY,	5SY17	5SV	5SU1 1),	5SV6	5TL1, 5TE8	1 NO contact	Standard	0.5 MW	5ST3010		
5SP4			5SV1			+ 1 NC contact	For low power	0.5 MW	5ST3013		
									For low power (with diode)	0.5 MW	5ST3013-0XX01
						2 NO contacts	Standard	0.5 MW	5ST3011		
							For low power	0.5 MW	5ST3014		
						2 NC contacts	Standard	0.5 MW	5ST3012		
							For low power	0.5 MW	5ST3015		
						1 CO contact	Standard	0.5 MW	5ST3016		
Auxiliary sw	itches (AS) wi	th TEST button									
5SL, 5SY,	5SY17	5SV	5SU1 1),	5SV6	5TL1, 5TE8	1 NO contact	Standard	0.5 MW	5ST3010-2		
5SP4		5SV1 + 1 NC contact	+ 1 NC contact	For low power	0.5 MW	5ST3013-2					
	2 NO contag	2 NO contacts	Standard	0.5 MW	5ST3011-2						
							For low power	0.5 MW	5ST3014-2		
						2 NC contacts	Standard	0.5 MW	5ST3012-2		
							For low power	0.5 MW	5ST3015-2		

¹⁾ Handle coupler 5ST3805-1 required

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Further technical specifications		5ST3010, 5ST3010-2 5ST3011, 5ST3011-2 5ST3012, 5ST3012-2	5ST3015, 5ST3016	5ST3013-2 5ST3014-2 5ST3015-2
Standards		33.33.12,33.33.12		
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60)947-5-1	
	UL, CSA	UL 1077, CSA C22.2 No.		
Contacts				
Minimum contact load		50 mA, 24 V	1 mA, 5 V DC	5 mA, 5 V DC
Maximum contact load		-	100 mA, 30 V DC	30 mA, 30 V DC
Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-13	6 A	-	-
	400 V AC, AC-14	2 A	-	_
	24 V DC, DC-13	6 A	-	_
	60 V DC, DC-13	3 A	-	_
	110 V DC, DC-13	1 A	-	-
	220 V DC, DC-13	1 A	-	_
Service life, on average, with rated load		20 000 actuations		
Safety				
Short-circuit protection		Miniature circuit breake	rs or gG 6 A fuse	
Connections				
Conductor cross-sections		0.5 2.5 mm ² (AWG 22	14)	
Terminals	Max. tightening torque	0.5 Nm [4.5 lb-in]		
Environmental conditions				
Permissible ambient temperature		−25 +55 °C		
Permissible storage temperature		−40 +75 °C		
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles		
Mounting position		Any		
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²		
Vibration resistance at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²		

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5ST3020, 5ST3020-2 5ST3021, 5ST3021-2

5ST3022, 5ST3022-2

Electrical accessories

Fault signal contacts (FC)

- Signals the automatic tripping of the protective device in the event of a fault, such as an overload or a short circuit
- If the fault signal contact is activated, the contact position does not change if the in-built protective device is tripped manually
- Version with TEST and RESET buttons enables the testing of control circuits without the need to trip the protective device
- Red RESET button in the operating handle indicates automatic shutdown of the mounted protective device

For combination w	vith basic units			Contacts	Width	Article No.		
Miniature circuit breakers	Device protection switches	RCCBs	RCBO	Arc fault detection devices		(1 MW = 18 mm)		
Fault signal contact	s (FC)							
5SL, 5SY, 5SP4	5SY17	5SV	/	1 NO contact + 1 NC contact	0.5 MW	5ST3020		
					2 NO contacts	0.5 MW	5ST3021	
					2 NC contacts	0.5 MW	5ST3022	
Fault signal contact	s (FC) with Test and F	Reset buttons						
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 ¹⁾ , 5SV1	5SV6	1 NO contact + 1 NC contact	0.5 MW	5ST3020-2	
					2 NO contacts	0.5 MW	5ST3021-2	
					2 NC contacts	0.5 MW	5ST3022-2	

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

Standards Standards IEC/EN IEC/EN 62019, IEC/EN 60947-5-1 UL. CSA UL 1077, CSA C22.2 No. 235 Contacts Minimum contact load 50 mA, 24 V Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1 230 V AC, AC-13 6 A 2 A 400 V AC, AC-14 24 V DC, DC-13 6 A 60 V DC, DC-13 3 A 110 V DC, DC-13 1 A 220 V DC, DC-13 Service life, on average, with rated load 20 000 actuations Safety Miniature circuit breakers or gG 6 A fuse Short-circuit protection Connections 0.5 ... 2.5 mm² (AWG 22 ... 14) Conductor cross-sections **Terminals** Max. tightening torque 0.5 Nm [4.5 lb-in] **Environmental conditions** Permissible ambient temperature -25 ... +55 °C Permissible storage temperature -40 ... +75 °C Resistance to climate Acc. to IEC 60068-2-30 28 cycles Mounting position Any Shock at 11 ms half-sine Acc. to IEC 60068-2-27 50 m/s² Vibration resistance at 10 ... 150 Hz 50 m/s² Acc. to IEC 60068-2-6

System overview, page 4/4 Siemens LV 10 ⋅ 10/2019 4/57



Electrical accessories

Auxiliary switches and fault signal contacts (AS+FC)

- Combine the properties of both switches in a width of only 0.5 MW (9 mm)
- Signal contact point of the mounted device
- Signal the automatic tripping of the protective device in the event of a fault, such as an overload, short circuit or residual current
- If the fault signal contact is activated, the contact position does not change if the in-built protective device is tripped manually



¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

ECT	72	n	6
221	3	υ	U.

Standards		
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1
	UL, CSA	UL 1077, CSA C22.2 No. 235
Contacts		
Minimum contact load		50 mA, 24 V
Maximum contact load		-
Contact load according to IEC/EN 62019	230 V AC, AC-13	6 A
and IEC/EN 60947-5-1	400 V AC, AC-14	2 A
Contact load according to IEC/EN 62019	24 V DC, DC-13	3 A (3 A)
(acc. to IEC/EN 60947-5-1)	60 V DC, DC-13	3 A (1 A)
	110 V DC, DC-13	0.5 A (0.5 A)
	220 V DC, DC-13	0.5 A (0.3 A)
Service life, on average, with rated load		20 000 actuations
Safety		
Short-circuit protection		Miniature circuit breakers or gG 6 A fuse
Connections		
Conductor cross-sections		0.5 2.5 mm ² (AWG 22 14)
Terminals	Max. tightening torque	0.5 Nm [4.5 lb-in]
Environmental conditions		
Permissible ambient temperature		−25 +55 °C
Permissible storage temperature		−40 +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²
Vibration resistance at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²

Shunt releases (ST)



• For remote-controlled tripping of the mounted device

For combination with basic units			Rated voltage U _n	Width	Article No.	
Miniature circuit breakers	RCCBs	RCBO		(1 MW = 18 mm)		
Shunt releases (ST)						
5SL4, 5SY, 5SP4	5SY, 5SP4 5SV 5SU1 ¹⁾		110 415 V AC	1 MW	5ST3030	
			AC/24 48 V DC	1 MW	5ST3031	
			12 V DC new	1 MW	5ST3031-0XX01	

¹⁾ Handle coupler 5ST3805-1 required

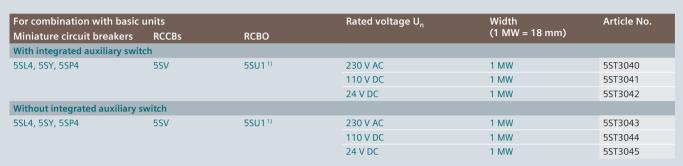
Further technical specifications		5ST3030	5ST3031	5ST3031-0XX01
Standards				
Standards	IEC/EN	EN 60947-1		
Supply				
Primary operating range		0.7 1.1 × U _n	0.7 1.1 × U _n	0.7 1.1 × U _n
Rated frequency f _n		50 60 Hz	50 60 Hz	-
Contacts				
Minimum contact load		50 mA, 24 V	50 mA, 24 V	1 mA, 5 V
Tripping operations		Max. 2000	Max. 2000	Max. 2000
Service life, on average, with rated load	Actuations	20000	20000	20000
Safety				
Short-circuit protection		Miniature circuit break	kers B/C 6 A or fuse gG 6 A	
Connections				
Conductor cross-sections		0.5 2.5 mm ² (AWG	22 14)	
Terminals	Max. tightening torque	0.8 Nm [6.8 lb-in]		
Environmental conditions				
Permissible ambient temperature		−25 +55 °C	−25 +55 °C	−40 +70 °C
Permissible storage temperature		−40 +75 °C	−40 +75 °C	−40 +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles	28 cycles	28 cycles
Mounting position		Any	Any	Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²	50 m/s ²	50 m/s ²
Vibration resistance at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²	50 m/s ²	50 m/s ²

System overview, page 4/4 Siemens LV 10 · 10/2019 4/59

Electrical accessories

Undervoltage releases (UR)

- Integrated, for example, in EMERGENCY-OFF loops
- Ensure that the mounted device trips in the event of an emergency, guaranteeing disconnection of the control circuit according to EN 60204.
- Trip the mounted device if the voltage is interrupted or too low, i.e. prevents activation of the mounted device



¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST304.

Standards		
Standards	IEC/EN	EN 60947-1
Supply		
Primary operating range		0.85 1.1 × U _n
Rated frequency f _n		50/60 Hz
Contacts		
Minimum contact load		50 mA, 24 V
Tripping operations		Max. 2000
Service life, on average, with rated load	Actuations	20000
Safety		
Short-circuit protection		Miniature circuit breakers B/C 6 A or fuse gG 6 A
Connections		
Conductor cross-sections		0.5 2.5 mm ² (AWG 22 14)
Terminals	Max. tightening torque	0.8 Nm [6.8 lb-in]
Environmental conditions		
Permissible ambient temperature		−25 +55 °C
Permissible storage temperature		−40 +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²
Vibration resistance at 10 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²

System overview, page 4/4

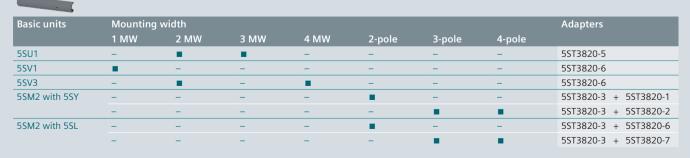
5ST3 remote controlled (RC) mechanisms

- For operating facilities that are extensive or not continuously staffed
- Allow direct and immediate access to the plant even if it is remote or in a location that is hard to reach
- Permit fast restarts following a fault
- Version with ARD with automatic restart
- Versions with ARD and Power with integrated auxiliary switches and fault signal contacts

Remote controlled type	Display	Ambient temperature	Vibration and shock requirements	Rated voltage U _n	Width (1 MW = 18 mm)	Article No.
Basic	-	−25 °C +45 °C	-	12 30 V AC, 12 48 V DC	1.5 MW	5ST3053
				177 270 V AC	2 MW	5ST3054
Power	LED	−25 °C +45 °C	-	12 30 V AC, 12 48 V DC	2 MW	5ST3055
				177 270 V AC	2 MW	5ST3056
Power with ARD	LED	−25 °C +45 °C	-	12 30 V AC, 12 48 V DC	2 MW	5ST3057
				177 270 V AC	2 MW	5ST3058
Power with extended function	LED	−40 °C +70 °C	acc. to EN 61373 / EN 50155 "1B"	12 30 V AC, 12 48 V DC	2 MW	5ST3070

Further technical specification	ations	5ST3053	5ST3054	5ST3055	5ST3056	5ST3057	5ST3058	5ST3070
Standards								
Standards		EN 50557 (VDI	0640-20)					
Supply								
Rated frequency f _n		50 60 Hz						
Rated power dissipation on standby		≤1 VA						
Contacts								
Service life, on average, with rated load	Actuations	10000	10000	10000	10000	10000	10000	10000
Number of remote switching operation minute	ns per	2	2	2	2	2	2	2
Number of automatic reclose attempts	5	-	-	-	-	3	3	-
Cable length in the control circuit		≤1500 m	≤1500 m	≤1500 m	≤1500 m	≤1500 m	≤1500 m	≤1500 m
Sliding selector with locking device		-	•	•	•	•	•	•
Integrated auxiliary switches		-	-	1CO; 2 A; 250 V				
Integrated fault signal contacts		-	_	1CO; 2 A; 250 V				
Connections								
Conductor cross-sections		0.5 1.5 mm ²	² (AWG 14 30)				
Terminal tightening torque		0.2 0.25 Nm	(2.0 lb-in)					
Environmental conditions								
Permissible storage temperature		−40 +55 °C	−40 +55 °C	−40 +55 °C	−40 +55 °C	−40 +55 °C	−40 +55 °C	-40 +70 °C
Degree of protection		IP20	IP20	IP20	IP20	IP20	IP20	IP20
Pollution degree for overvoltage categ	ory	3/II	3/III	3/II	3/III	3/II	3/III	3/II

Suitable adapters for combination with basic units



Mechanical accessories

Handle couplers for ad	ditional components	
Handle couplers for ad	Necessary for mounting the additional components auxiliary switches, fault signal contacts,	_
	shunt trips and undervoltage releases onto the 5SU1 RCBO	
	• 1 set = 5 units	
		Article No.
		5ST3805-1
Handle locking devices		
	To prevent undesired mechanical ON/OFF switching Lockable	
	For 5SV RCCBs, 5SV1 RCBOs and 5SL MCBs	
	Version	Article No.
A	For padlock with 3 6 mm shackle	5ST3806
Locking device	Saalahla and lackahla	_
Name of Street	Sealable and lockable For 5SU1 RCBOs	
	Version	Article No.
	For padlock with 3 6 mm shackle	5ST3801-1
Padlock		
radiock	For 5ST3801 and 5ST3806 locking devices, as well as 5ST3054 58 / 5ST3070 remote	
	operating mechanisms	
		Article No.
		5ST3802
222 C 15		
Device labels		
PARK 大阪の地域の場合は 発音を含ませる主義	For adhesive attachment	
	For modular installation devices, such as 5SY, 5SL, 5TL1	
	Versions	Article No.
	15 mm x 6 mm, white (WIN 098)	8WH8210-0AA35
	15 mm x 6 mm, yellow (WIN 099)	8WH8210-0AA36
Covers for connection	terminals	
	For 5SV3 and 5SV4 residual current operated circuit breakers, sealable (2 units in plastic bag)	
	Mounting width	Article No.
	2 MW	5SW3010
	4 MW	5SW3008
LL 13./		
Terminal covers, gray		
	For surface mounting, IP40 degree of protection Sealable	
	Can be used with 35 mm DIN rail	
	For width up to	Article No.
	2.5 MW	5SW3004
	4.5 MW	5SW3005
Wall enclosures, gray		
	For flush mounting, IP40 degree of protection Can be used with 35 mm DIN rail	
	For width up to	Article No.
	2.5 MW	5SW3006
4	4.5 MW	5SW3007
Course		
Covers	Can be assembled as mini-distribution board	
G	Suitable for all devices	
WO =	Cover parts prepared for rail mounting of conventional label caps	
020=	Comprising:	Article No.
	End plates	5ST2134
	Angled profile	5ST2135
	Flat profile as alternative	5ST2136

RCCB protective socket outlets

acc. to VDE 0664

RCCB protective socket outlets in molded-plastic enclosures							
1 1	Equipped with RCCB and flusIP54 degree of protection	sh-mounted SCHUKO® socket outlet					
STATE OF THE PARTY	Rated residual current I _{∆n}	Rated current I _n	Article No.				
	10 mA	16 A	5SZ9206				
	30 mA	16 A	5SZ9216				

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Standard busbars

5ST36, fixed lengths, cannot be cut

Pin spacings in MW	Application	Number	Length	Conductor cross-section		
(1 MW = 18 mm)		of MWs		10 mm²	16 mm²	
Two-phase				Article No.	Article No.	
L1 L2	For 6 MCBs 2P	12 MW	210 mm	5ST3608	5ST3638	
Three-phase, for MCBs with RCCB				Article No.	Article No.	
L1 L2 L3 N L1 L2 L3 L1 L2 L3 L1 L2	For 8 MCBs 1P with 1 RCCB 3P+N, N right	12 MW	210 mm	5ST3624	5ST3654	
Four-phase				Article No.	Article No.	
L1 N L2 N L3 N	For 6 MCBs 2P or 1P+N	12 MW	215 mm	5ST3623	5ST3653	

5ST37, can be cut

Pin spacings in MW	Application	Number	Length	End caps	Conductor co	Conductor cross-section	
(1 MW = 18 mm)		of MWs		included	10 mm²	16 mm²	
Two-phase					Article No.	Article No.	
L1 L2)	For MCBs 2P	12 MW	214 mm	•	5ST3734	5ST3704	
Four-phase, for MCBs with RCCB					Article No.	Article No.	
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	For MCBs 2P with 1 RCCB 1P+N	56 MW	1000 mm	-	5ST3770-2	5ST3770-3	
L1 L2 L3 N)} L2 N L3 N	For 6 MCBs 1P+N with 1 RCCB 4P N right	16 MW	292 mm	•	5ST3770-4	5ST3770-5	

Accessories for busbars 5ST36 and 5ST37

End caps for 5ST37			
	Version	Article No.	
	For two-phase and three-phase busbars	5ST3750	
8	For 4-phase busbars	5ST3718	
Terminals up to 35 m	m^2		
20	Version	Article No.	
	For direct infeed at the busbar 5ST2145	5ST2157	

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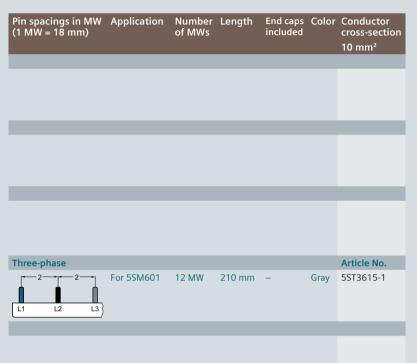
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Accessories | Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)

System overview, page 4/4

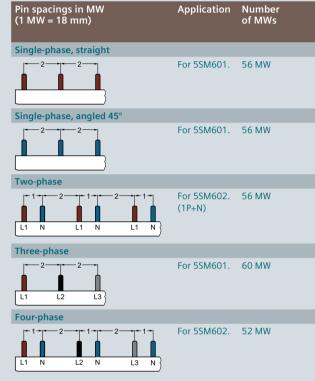
Standard busbars

5ST36 and 5ST37

Fixed lengths, cannot be cut, for devices with add-on 5SM6 arc fault detection devices



can be cut, for devices with add-on 5SM6 arc fault detection devices



Can be cut, for devices with add-on 5SM6 arc fault detection devices and infeed via RCCB

Length	End caps included	Color	Conductor cross-section	Pin spacing (1 MW = 18	s in MW mm)	Application	Number of MWs	Length	End caps included	Color	Conductor cross-section
			10 mm²								16 mm ²
1000 mm	-	Gray	5ST3764-1								
		Blue	5ST3765-2								
			Article No.								
1000 mm	-	Blue	5ST3765-1								
			Article No.	Two-phase							Article No.
1000 mm	-	Gray	5ST3735-1	1 1 2 L1 N	2 L1 N L1 N	For RCCB 2P N-right and 5 AFDD (5SM601 + compact device	12 MW .)	214 mm	•	Gray	5ST3772
			Article No.								
1050 mm	-	Gray	5ST3740-1								
			Article No.								
950 mm	-	Gray	5ST3746-1								

Terminals for infee	Article No.					
For conductors	short		5ST3768			
up to 25 mm ²	short, IP20		5ST3771-2			
	long	long				
End caps	End caps					
For single-phase bush	oars	Gray	5ST3766			
		Blue	5ST3767			
For two- and three-pl	nase busbars		5ST3750			
For four-phase busba	For four-phase busbars					
Touch protection	Article No.					
For free connections,	5ST3655					

Compact busbars

5ST36, fixed lengths, cannot be cut

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Conductor cross-section 10 mm²
Two-phase, for infeed via RCCB					Article No.
L1 N L1 N L1 N	For 1 x RCCB 1P+N and 5 x compact devices equipped with 5SM6 arc fault detection device	12 MW	216 mm	•	5ST3685-0
Two-phase					Article No.
L1 N L1 N L1 N	For 12 compact devices	12 MW	218 mm	•	5ST3674-0
L1 N L1 N	For 6 compact devices equipped with 5SM6 arc fault detection device	12 MW	200 mm	•	5ST3676-0
Four-phase					Article No.
L1 N L2 N L3 N L1 N	For 12 compact devices	12 MW	218 mm	•	5ST3673-0
2 2 2 1 1 N L3 N L3 N	For 6 compact devices equipped with 5SM6 arc fault detection device	11 MW	200 mm	•	5ST3675-0

5ST37, can be cut

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Conductor cross-section 10 mm²
Two-phase, for infeed via RCCB					Article No.
L1 N L1 N L1 N L1 N	For 1 x RCCB 1P+N and 10 x compact devices	12 MW	215 mm	•	5ST3784-0
N L1 L1 N L1 N L1 N	For 1 x RCCB 1P+N (RCCB N left only) and 10 x compact devices	12 MW	215 mm	•	5ST3784-0KL
Two-phase					Article No.
	For compact devices	60 MW	1060 mm	•	5ST3774-0
1 N L1 N	For compact devices equipped with 5SM6 arc fault detection device	59 MW	1042 mm	-	5ST3776-0
L1 NASL1 NASL1 NAS	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	-	5ST3778-0

5ST37, can be cut

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Conductor cross-section 10 mm²
Two-phase					Article No.
2,5 L1 NAS L1 NAS	For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch	58.5 MW	1036 mm	-	5ST3780-0
Four-phase, for infeed via RCCB					Article No.
L1 L2 L3 N L1 N L2 N L3 N	For 1× RCCB 3P+N and 8× compact devices	12 MW	216 mm	•	5ST3783-0
N L1 L2 L3 L1 N L2 N L3 N	For 1× RCCB 3P+N (RCCB N left only) and 8× compact devices	12 MW	216 mm	•	5ST3783-0KL
Four-phase					Article No.
L1 N L2 N L3 N L1 N	For compact devices	60 MW	1060 mm	-	5ST3773-0
L1 N L2 N L3 N	For compact devices equipped with 5SM6 arc fault detection device	59 MW	1042 mm	-	5ST3775-0
1,5 + 1,5 +	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	-	5ST3777-0

Accessories for 5ST3 compact busbars, versions that can and cannot be cut

Touch protection f	or 5ST3			
	Version	Color	Article No.	
	For free connections, for pins L1, N	Yellow (RAL1004)		5ST3655
	For pins L2 / L3	Yellow (RAL1004)		5ST3655-0HG
End caps for 5ST3				
/	Version	Color		Article No.
. (6	For two-phase and four-phase busbars	two-phase and four-phase busbars Gray		55T3788-0
Terminals, short, II	20			
1	Version	For conductors	Infeed	Article No.
	Infeed terminal for connection of larger cross section	Up to 25 mm ²	Lateral	5ST3771-2



Switching Devices



All the information	on you need	5/2
System overview		5/4
Installation switch	5TE8 control switches 5TE48 pushbuttons 5TE58 light indicators 5TE81/82 On/Off switches 5TL1 On/Off switches 5TE DC isolator	
	5TE8 control switches	5/6
	5TE48 pushbuttons	5/8
	5TE58 light indicators	5/10
	5TE81/82 On/Off switches	5/12
	5TL1 On/Off switches	5/14
	5TE DC isolator	5/16
	5TE busbars	5/18
	5TT41 remote control switches	5/20
	5TT44 remote control switches	5/24
	5TT4 auxiliary switches	5/26
	5TT42 switching relays	5/28
	5TT50 Insta contactors	5/30
	5TT58 Insta contactors	5/32
	5TT5 auxiliary switches	5/34
	5TT3 soft-starting devices	5/35
Timers		5/36
	7LF4 digital time switches	5/36
	7LF5 mechanical time switches	5/42
	7LF6 timers for buildings new	5/46
	5TT3 timers for industrial applications	5/47

A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

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Technical overview of switching devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on switching devices www.siemens.com/lowvoltage/product-support (109769083)

System overview

Basic units and accessories

Installation switching devices



5TE8 control switches



pushbuttons



light indicators



5TE81/82, 5TL1 On/Off switches, 5TE2



DC isolators



busbars



5TT41, 5TT44 remote control switches



auxiliary switches



switching relays



5TT50, 5TT58 Insta contactors





soft-starting devices

Accessories



Auxiliary switches



Shunt trips



Undervoltage releases (UR)



Handle locking devices



LEDs



Caps/covers



Connectors

Timers



7LF4 digital time switches



7LF5 mechanical time switches



7LF6 timers for buildings new



5TT3 timers for industrial applications

Accessories



Holders

5TE8 control switches

	Control switches	Two-way switches	Group switches with center position
Rated operational current I _e per conducting path	20 A	20 A	20 A
Rigid conductor cross-section	1 6 mm ²	1 6 mm ²	1 6 mm ²
Flexible conductor cross-section, with end sleeve	1 6 mm ²	1 6 mm ²	1 6 mm ²

Contacts	U _e AC	Mounting width	Auxiliary switches cannot be retrofitted	Mounted	Auxiliary switches cannot be retrofitted	Mounted	Auxiliary switches cannot be retrofitted
1 NO	48 V	1 MW	5TE8101-3	-	-	-	-
	230 V	1 MW	5TE8101	-	-	-	-
2 NO	400 V	1 MW	5TE8102	-	-	-	-
3 NO	400 V	1 MW	5TE8103	-	-	-	-
		1.5 MW	-	5TE8108	-	-	-
1 NO + 1 NC	400 V	1 MW	-	-	-	5TE8151	-
2 NO + 2 NC	400 V	1 MW	-	-	5TE8152	-	-
3 NO + 1 NC	400 V	1 MW	-	-	5TE8153	-	-
1 CO	230 V	1 MW	-	-	5TE8161	-	-
2 CO	400 V	1 MW	-	_	5TE8162	-	-
1 toggle switch	230 V	1 MW	-	-	-	-	5TE8141
2 toggle switches	400 V	1 MW	-	_	-	_	5TE8142

5TE8

Further technical specifications

Standards		
Standards		IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1 (VDE 0632-1)
Approvals		IEC/EN 60947-3 (VDE 0660-107), GB14048.3-2008 CCC
Supply		
Rated power dissipation P _v	Per pole	0.7 VA
Contacts		
Minimum contact load		10 V; 300 mA
Rated making/rated breaking capacity	At p.f. = 0.65	60 A / 60 A
Rated short-time withstand current I _{cw}	Up to 0.2 s	650 A
per conducting path at p.f. = 0.7	Up to 0.5 s	400 A
	Up to 1 s	290 A
	Up to 3 s	170 A
Thermal rated current I _{th}		20 A
Electrical/mechanical service life	Actuations	10000 / 25000
Safety		
Clearances	Open contacts	2× >2 mm
	Between the poles	>7 mm
Creepage distances		>7 mm
Sealable switch position		Yes
Separate handle locking device		Yes
Rated short-circuit making capacity I _{cm}		10 kA
Rated impulse withstand voltage U _{imp}		>5 kV
Connections		
Terminals	± Screw (Pozidriv)	PZ 1
	Max. tightening torque	0.8 1.0 Nm
Environmental conditions		
Permissible ambient temperature		−5 +40 °C
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 ℃

Auxiliary swit	tches (AS)		
- 70	For right-hand-sid	e retrofitting with factory-fitted brackets	
	Contacts	Version	Article No.
- 1.8	1 NO + 1 NC	Standard	5ST3010
E		For low power	5ST3013
4		For low power (with diode)	5ST3013-0XX01
• 10-	2 NO	Standard	5ST3011
		For low power	5ST3014
	2 NC	Standard	5ST3012
		For low power	5ST3015
	1 CO	Standard	5ST3016
Handle lockin	ng device		
	Sealable For padlock with r	red mechanical On/Off switching nax. 3 mm shackle	Article No.
MAD			5ST3801
Spacer			
	 Can be snapped or 	lar devices with a mounting depth of 70 mm nto either side of the busbar for convenient cable routing ended for better heat dissipation	
1			Article No.
			5TG8240
Set of mixed	caps		
	For manual chang	ing of the luminous plates for the control switches	
			Article No.
			5TG8068

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5TE48 pushbuttons

With/without LED

Rated operational current I_e per conducting path Rigid/flexible conductor cross-section Max. cable length

	Pushbuttons without maintained-contact function	Pushbuttons with maintained-contact function	Control pushbuttons with maintained-contact function or momentary-contact function
	Without LED	Without LED	With LED
ı	20 A	20 A	20 A
ı	1 6 mm ²	1 6 mm ²	1 6 mm ²
1	Standard	Standard	Standard

			·		2.4		- 6	
Contacts	U _e AC	Mounting width						
1 NO	230 V	1 MW		_		-	1× red	5TE4821
				-		_		-
2x 1 NO	400 V	1 MW	1× green, 1× blue	5TE4804		-		-
2 NO	400 V	1 MW		_	1× gray	5TE4811	1× red	5TE4823
1 NO + 1 NC	400 V	1 MW	1× gray	5TE4800	1× gray	5TE4810		-
			1× red	5TE4805		-	1× red	5TE4820
			1× green	5TE4806		-		-
			1× yellow	5TE4807		-		-
			1× blue	5TE4808		_		_
2x (1 NO + 1 NC)	400 V	1 MW		-		-		-
2 NO + 2 NC	400 V	1 MW	1× gray	5TE4801-2	1× gray	5TE4811-2		-
3 NO + 1 NC	400 V	1 MW	1× gray	5TE4802	1× gray	5TE4812-1		-
3 NO + N	400 V	1 MW		-	1× gray	5TE4812		-
2 NC	400 V	1 MW		-		_	1× red	5TE4824
4 NC	400 V	1 MW		-	1× gray	5TE4813		-
2 CO	400 V	1 MW		_	1× gray	5TE4814		-

Further technical specifications

5TE48

Standards		
Standards		IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1 (VDE 0632-1)
Approvals		IEC/EN 60947-3 (VDE 0660-107)
Supply		
Rated power dissipation P _v	Per pole	0.6 VA
Contacts		
Minimum contact load		10 V; 300 mA
Rated making/rated breaking capacity	At p.f. = 0.65	60 A / 60 A
Rated short-time withstand current I _{cw}	Up to 0.2 s	650 A
per conducting path at p.f. = 0.7	Up to 0.5 s	400 A
	Up to 1 s	290 A
	Up to 3 s	170 A
Thermal rated current I _{th}		20 A
Mechanical service life	Actuations	25000
Safety		
Clearances	Open contacts	2× >2 mm
	Between the poles	>7 mm
Creepage distances		>7 mm
Rated impulse withstand voltage U _{imp}		>5 kV
Connections		
Terminals	± Screw (Pozidriv)	PZ 1
	Max. tightening torque	0.8 1.0 Nm
Environmental conditions		
Permissible ambient temperature		−5 +40 °C
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

Double pushbuttons with maintained-contact function and/or momentary-contact function With LED Without LED With LED 20 A 20 A 20 A 1 ... 6 mm² 1 ... 6 mm² 1 ... 6 mm² 150 m Standard Standard 5TE4822 1× red 5TE4822-1 1× blue new 1× green, 5TE4840 1× red 5TE4830 5TE4841 1× green, 1× green, 1× red 1× red 1× green, 5TE4831 1× red

Accessories

Accessories					
LEDs for man	iual repla	cement			
0	I _e	U _e	Color	Article No.	
	0.4 A	12 60 V AC/DC	White	5TG8056-0	
66			Red	5TG8056-1	
			Yellow	5TG8056-2	
			Green	5TG8056-3	
			Blue	5TG8056-4	
		115 V AC/DC	White	5TG8057-0	
			Red	5TG8057-1	
			Yellow	5TG8057-2	
			Green	5TG8057-3	
			Blue	5TG8057-4	
		230 V AC	White	5TG8058-0	
			Red	5TG8058-1	
			Yellow	5TG8058-2	
			Green	5TG8058-3	
			Blue	5TG8058-4	
Cap sets					
	with o	anual changing of co r without lamps = 5 units	lored caps		
	Color			Article No.	
	Red, tran	5TG8061			
	Green, tra	5TG8062			
6	Yellow, to	ransparent	5TG8063		
	Blue, trar	nsparent		5TG8064	
	Black, no	n-transparent		5TG8065	
	White, tra	ansparent		5TG8066	
	Gray, nor	n-transparent		5TG8060	
Sets of mixed	d caps				
		anual changing of co hout lamps	lored caps with		
	Color			Article No.	
		of red/green + of yellow/blue/white		5TG8067	
	1× each o	5TG8070			

Color coding according to IEC 60073

	3		
Color	Safety of people/ environment	Process state	System state
Red	Danger	Emergency	Faulty
Green	Safety	Normal	Normal
Yellow	Warning/Caution	Abnormal	Abnormal
Blue	Stipulation		
Black, white, gray	No special significance assigned		

5TE58 light indicators

With LED

Rigid conductor cross-section 1.5 ... 6 mm²
Flexible conductor cross-section, with end sleeve 1 ... 6 mm²

Max. cable length Standard



U _e AC	Mounting width				
230 V	1 MW	1× red	5TE5800	1× red	5TE5804
		1× green, 1× red	5TE5801		-
		3× green	5TE5802		-
		1× red, 1× yellow, 1× green	5TE5803		_
12 60 V new	1 MW	1× red	5TE5810		-
		1× green	5TE5810-1		-
		1× green, 1× red	5TE5811		-
		3× green	5TE5812		-
		1× red, 1× yellow, 1× green	5TE5812-1		-

Further technical specifications

5TE58

Standards		
Standards		DIN VDE 0710-1-11
Supply		
Rated power dissipation P _v	LED	0.4 VA
Safety		
Clearances	Between the terminals	>7 mm
Connections		
Terminals	± Screw (Pozidriv)	PZ 1
	Max. tightening torque	1.2 Nm
Environmental conditions		
Permissible ambient temperature		−5 +40 °C
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

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Accessories

LEDs for man	ual renla	cement		
EED3 for man	I _e	U	Color	Article No.
19	0.4 A	12 60 V AC/DC	White	5TG8056-0
Carlo V	0.4 A	12 00 V //C/DC	Red	5TG8056-1
			Yellow	5TG8056-2
			Green	5TG8056-3
			Blue	5TG8056-4
		115 V AC/DC	White	5TG8057-0
		113 V ACIDE	Red	5TG8057-0
			Yellow	5TG8057-1
			Green	5TG8057-3
			Blue	5TG8057-4
		230 V AC	White	5TG8058-0
		230 V AC	Red	5TG8058-1
			Yellow	5TG8058-2
			Green	5TG8058-3
			Blue	5TG8058-4
Cap sets			Bluc	3100030 4
cup sets	• For m	nanual changing of co	lored cans	
		= 5 units	iorea caps	
	Version			Article No.
	Red, trai	nsparent	5TG8061	
	Green, t	ransparent		5TG8062
No.	Yellow.	transparent		5TG8063
Septem 2	,			
All Control	Blue, tra	nsparent		5TG8064
	White to	ransparent		5TG8066
	wille, ti	ansparent		3100000
Sets of mixed	l caps			
	• For m	nanual changing of co	lored caps	
	Color			Article No.
		h of red/green +		5TG8067
		of yellow/blue/white		
	1× each	of red/green/yellow		5TG8070

Color coding according to IEC 60073

Color	Safety of people/ environment	Process state	System state
Red	Danger	Emergency	Faulty
Green	Safety	Normal	Normal
Yellow	Warning/Caution	Abnormal	Abnormal
Blue	Stipulation		
Black, white, gray	No special significance	assigned	

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5TE81/82 On/Off switches

Rated operational current I_e per conducting path Rigid conductor cross-section Flexible conductor cross-section, with end sleeve

5TE81 On/Off	switches	5TE82 On/Off	switches	
20 A		32 A		
1.5 6 mm ²		1.5 6 mm ²		
1 6 mm ²		1 6 mm ²		

Contacts	U _e AC	Mounting width	Auxiliary sw	itches		Auxiliary sw	itches	
			Can be retrofitted	Cannot be retrofitted	Mounted	Can be retrofitted	Cannot be retrofitted	Mounted
1 NO	230 V	1 MW	5TE8111	_	-	5TE8211	-	-
2 NO	400 V	1 MW	5TE8112	-	-	5TE8212	-	-
3 NO	400 V	1 MW	5TE8113	_	-	5TE8213	-	-
3 NO + N	400 V	1 MW	_	5TE8114	-	-	5TE8214	-
		1.5 MW	-	_	5TE8118	-	-	5TE8218

Further technical specifications		5TE81	5TE82
Standards			
Standards		IEC/EN 60947-3 (VDE 0660-107), IEC/EN 60669-1	IEC/EN 60947-3 (VDE 0660-107)
Approvals		IEC/EN 60947-3 (VDE 0660-107)	IEC/EN 60947-3 (VDE 0660-107)
Supply			
Rated power dissipation P _v	Per pole	0.7 VA	
Contacts			
Minimum contact load		10 V; 300 mA	10 V; 300 mA
Rated making/rated breaking capacity	At p.f. = 0.65	60 A / 60 A	96 A / 96 A
Rated short-time withstand current I _{cw}	Up to 0.2 s	650 A	1000 A
per conducting path at p.f. = 0.7	Up to 0.5 s	400 A	630 A
	Up to 1 s	290 A	450 A
	Up to 3 s	170 A	250 A
Thermal rated current I _{th}		20 A	32 A
Electrical/mechanical service life	Actuations	10000 / 25000	10000 / 25000
Safety			
Clearances	Open contacts	2× >2 mm	
	Between the poles	>7 mm	
Creepage distances		>7 mm	
Rated short-circuit making capacity I _{cm}		10 kA	
Rated impulse withstand voltage U _{imp}		>5 kV	
Connections			
Terminals	± Screw (Pozidriv)	PZ 1	
	Max. tightening torque	1.2 Nm	
Environmental conditions			
Permissible ambient temperature		−5 +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C	

Auxiliary switches (AS) • For right-hand-side retrofitting with factory-fitted brackets Contacts Version Article No. 1 NO + 1 NC Standard 5ST3010 5ST3013 For low power For low power (with diode) 5ST3013-0XX01 2 NO Standard 5ST3011 For low power 5ST3014 2 NC Standard 5ST3012 For low power 5ST3015 1 CO Standard 5ST3016 Handle locking device • To prevent undesired mechanical On/Off switching • Sealable • For padlock with max. 3 mm shackle Article No. 5ST3801 Terminal cover For covering screw openingsSealable Sealable Article No. 5ST3800 Spacer • Contour for modular devices with a mounting depth of 70 mm • Can be snapped onto either side of the busbar for convenient cable routing • Spacer is recommended for better heat dissipation Article No.

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5TG8240

5TL1 On/Off switches

	Rated operational current I _e per conducting path				
	32 A	40 A	63 A	80 A	100 A
Rigid conductor cross-section	1 35 mm²	1 35 mm ²	1 35 mm²	2.5 50 mm ²	2.5 50 mm ²
Flexible conductor cross-section, with end sleeve	1 25 mm ²	1 25 mm ²	1 25 mm ²	2.5 50 mm ²	2.5 50 mm ²

Contacts	Rated operational voltage U _e AC	Mounting width	Gray handle	Gray handle	Gray handle	Red handle	Gray handle	Gray handle
1 NO	230 V	1 MW	5TL1132-0	5TL1140-0	5TL1163-0	5TL1163-1	5TL1180-0	5TL1191-0
2 NO	400 V	2 MW	5TL1232-0	5TL1240-0	5TL1263-0	5TL1263-1	5TL1280-0	5TL1291-0
3 NO	400 V	3 MW	5TL1332-0	5TL1340-0	5TL1363-0	5TL1363-1	5TL1380-0	5TL1391-0
4 NO	400 V	4 MW	5TL1432-0	5TL1440-0	5TL1463-0	_	5TL1480-0	5TL1491-0
3 NO + N	400 V	4 MW	5TL1632-0	5TL1640-0	5TL1663-0	5TL1663-1	5TL1680-0	5TL1691-0

Further technical specifications		5TL1.32	5TL1.40	5TL1.63	5TL1.80	5TL1.91	5TL1.92
Standards							
Standards		IEC/EN 6094	7-3 (VDE 066	50-107)			
Approvals		EN 60669-1					
Supply							
Rated power dissipation P _v	Per pole, max.	0.7 VA	0.9 VA	2.2 VA	3.5 VA	5.5 VA	8.6 VA
Contacts							
Minimum contact load		24 V; 300 mA	24 V; 300 mA	24 V; 300 mA	24 V; 300 mA	24 V; 300 mA	24 V; 300 mA
Rated making/rated breaking capacity AC-22A	At p.f. = 0.65	96 A / 96 A	120 A / 120 A	196 A / 196 A	240 A / 240 A	300 A / 300 A	375 A / 375 A
Rated short-time withstand current I _{cw}	Up to 0.2 s	760 A	950 A	1500 A	2700 A	3400 A	3400 A
per conducting path at p.f. = 0.7 1)	Up to 0.5 s	500 A	630 A	1000 A	1650 A	2100 A	2100 A
	Up to 1 s	400 A	500 A	800 A	1350 A	1700 A	1700 A
	Up to 3 s	280 A	350 A	560 A	800 A	1000 A	1000 A
Thermal rated current I _{th}		32 A	40 A	63 A	80 A	100 A	125 A
Electrical/mechanical service life	Switching cycles	10000 <i>l</i> 20000	10000	5000	2000	2000	2000
Rated power for the switching of resistive load	1-pole	5 kW	6.5 kW	10 kW	13 kW	16 kW	16 kW
including moderate overload AC-21	2-pole	9 kW	11 kW	18 kW	22 kW	28 kW	28 kW
	3-/4-pole	15 kW	15 kW	30 kW	39 kW	48 kW	48 kW
Safety							
Creepage distances		>7 mm					
Clearances	Open contacts	>7 mm					
	Between the poles	>7 mm					
Rated short-circuit making capacity l _{cm} (in conjunction with fuse of the same rated operational current EN 60269 gL/gG)		10 kA					
Rated impulse withstand voltage U _{imp}		>5 kV					
Connections							
Terminals	± Screw (Pozidriv)	PZ 2					
	Max. tightening torque	3.5 Nm					
Environmental conditions							
Permissible ambient temperature		−5 +40 °C					
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C					

125 A 2.5 ... 50 mm² 2.5 ... 50 mm² 2.5 ... 50 mm² Red handle Gray handle 5TL1191-1 5TL1192-0 5TL1291-1 5TL1292-0 5TL1391-1 5TL1392-0 - 5TL1492-0

5TL1692-0

5TL1691-1

Accessories

Accessories					
Auxiliary switche	s (AS)				
- all	For right-hand-side ret	rofitting with	n factory-fitte	ed brackets	
	Contacts	Version			Article No.
- ndi	1 NO + 1 NC	Standard			5ST3010
		For low po	ower		5ST3013
4		For low po	ower (with d	iode)	5ST3013-0XX01
• 10	2 NO	Standard			5ST3011
		For low po	ower		5ST3014
	2 NC	Standard			5ST3012
		For low po	ower		5ST3015
	1 CO	Standard			5ST3016
Handle locking de	evice				
	 To prevent undesired r 	nechanical C	n/Off switch	ing	
	SealableFor padlock with max.	2 mm chack	lo.		
	• For paulock with max.	5 IIIIII SIIdCK	ie		Article No.
6					5ST3806
					3313800
Terminal cover	F				
	 For covering screw ope Sealable 	enings			
	Scalabic				Article No.
					5ST3800
Spacer					
1	Contour for modular d				
	 Can be snapped onto e routing 	eitner side of	the busbar t	or convenient cable	
	Spacer is recommende	d for better l	neat dissipat	ion	
1			·		Article No.
					5TG8240
Phase connectors					
4	For easy wiring in varie	ous circuit ve	rsions and b	us mountings	
6.	 As a support terminal f 	or conducto	rs from 2.5 t	o 50 mm²	
7	Number of poles	l _e	U _e AC	Mounting width	Article No.
11.	1-pole	125 A	230 V	1 MW	5TL1192-4
N conductor conn					
6.	For easy wiring in variousAs a support terminal f				
	with blue color markin		1013 110111 2) to 50 mm	
	Number of poles	ا	U _e AC	Mounting width	Article No.
	1-pole	125 A	230 V	1 MW	5TL1192-3

5TE DC isolator

Can be used as switch disconnectors according to EN 60947-3

Rated operational current I_e 63 A

Rigid conductor cross-section 0.75 ... 35 mm²

Flexible conductor cross-section, with end sleeve 0.75 ... 25 mm²



Contacts	Max. operational voltage U _{max} DC	Mounting width	Auxiliary switches can be retrofitted
4 NO	1000 V	4 MW	5TE2515-1

Further technical specifications

Standards		
Standards		IEC/EN 60947-3; IEC/EN 60669-1; GB14048.3-2008 CCC
Supply		
Rated operational voltage U _e	For 4 poles in series	880 V DC
Rated power dissipation P _v	Per pole, max.	4.4 W
Contacts		
Minimum contact load		24 V; 300 mA
Rated short-time withstand current I _{cw}	1000 V DC, 4-pole	760 A
Electrical/mechanical service life	Actuations	5000 / 10000
Safety		
Rated short-circuit making capacity I _{cm}	1000 V DC, 4-pole	500 A
Rated impulse withstand voltage U _{imp}		>5 kV
Overvoltage category	At U = 440 880 V	II
	At U = 1000 V	
Utilization category		DC-21B
Connections		
Terminals	± Screw (Pozidriv)	PZ 2
	Max. tightening torque	2.5 3 Nm
Environmental conditions		
Permissible ambient temperature		−25 +40 °C
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	45 °C

Auxiliary sw	tches (AS)								
	For right-hand-side retrofitting with face.	For right-hand-side retrofitting with factory-fitted brackets							
	Contacts	Version	Article No.						
	1 NO + 1 NC	Standard	5ST3010						
E.		For low power	5ST3013						
		For low power (with diode)	5ST3013-0XX01						
	2 NO	Standard	5ST3011						
		For low power	5ST3014						
	2 NC	Standard	5ST3012						
		For low power	5ST3015						
	1 CO	Standard	5ST3016						
Shunt trips (S	T)								
1	Rated operational voltage U _n		Article No.						
2	110 415 V AC		5ST3030						
	24 48 V AC/DC		5ST3031						
	12 V AC/DC		5ST3031-0XX01						
Undervoltage	releases (UR)								
	Version	Rated operational voltage U _n	Article No.						
	With integrated auxiliary switch	230 V AC	5ST3040						
- 1		110 V DC	5ST3041						
		24 V DC	5ST3042						
p-10	Without integrated auxiliary switch	230 V AC	5ST3043						
		110 V DC	5ST3044						
		24 V DC	5ST3045						

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5TE busbars

For modular installation devices

Single-phase busbar



- For all 5TE8 switches, 20 A and 32 A
- For the cutting of unused terminal lugs and to ensure insulation clearances if one device terminal is to be supplied separately despite being mounted on the bus
- Infeed to unit terminal with conductor cross-section of 6 mm² up to 32 A
- Can be mounted from either top or bottom, in the front or rear terminal area
 An end cap is not required on single-phase busbars

Length	Division	Article No.
210 mm	12 MW version with 1 MW modular clearance	5TE9100

Two-phase busbar



- For all 5TE8 switches, 20 A and 32 A
 Infeed to unit terminal with conductor cross-section of 6 mm² Up to 32 A
- Can be mounted from either top or bottom, in the front and/or rear terminal area, thus allowing realization of a 4-conductor connection using 2 two-phase busbars
- Both copper conductors of the two-phase busbar are insulated together

Length	Division	Article No.
220 mm	12 MW version each with 1 MW modular clearance, phases offset by 0.5 MW	5TE9101

End caps for two-phase busbars



- End caps for 5TE9101 two-phase busbars to maintain insulation clearances when the bar is being cut
- 1 set = 10 units

Article No. 5TE9102

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5TT41 remote control switches

Rated current 16 A

Rated operational current I_e 16 A



						The same of the sa
Contacts	U _e	U _c AC	U _c DC	Mounting	g width	Auxiliary switches can be retrofitted
				1 MW	2 MW	
1 NO	250 V	230 V	-		-	5TT4101-0
		115 V	-		_	5TT4101-1
		24 V	-		-	5TT4101-2
		12 V	-		-	5TT4101-3
		8 V	-		-	5TT4101-4
		-	110 V		-	5TT4111-1
			24 V		-	5TT4111-2
			12 V		-	5TT4111-3
1 NO + 1 NC	250 V	230 V	-		-	5TT4105-0
		115 V	-		_	5TT4105-1
		24 V	-		-	5TT4105-2
		12 V	-		-	5TT4105-3
		8 V	-		-	5TT4105-4
		-	110 V		_	5TT4115-1
			24 V		-	5TT4115-2
			12 V		-	5TT4115-3
2 NO	400 V	230 V	-		-	5TT4102-0
		115 V	-		-	5TT4102-1
		24 V	_		_	5TT4102-2
		12 V	-		-	5TT4102-3
		8 V	-		-	5TT4102-4
		-	110 V		-	5TT4112-1
			24 V		-	5TT4112-2
			12 V		-	5TT4112-3
3 NO	400 V	230 V	-	-	-	5TT4103-0
		24 V	-	-		5TT4103-2
4 NO	400 V	230 V	-	-		5TT4104-0
		24 V	-	-		5TT4104-2
		-	110 V	-		5TT4114-1
			24 V	_		5TT4114-2

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Further technical specifications		5TT4101 5TT4102 5TT4105	5TT4111 5TT4112 5TT4115	5TT4103 5TT4104 5TT4114
Standards				
Standards			IEC 60669-2, IE DE 0632), EN 60	C 60669-3, 1669-2-2, EN 60669-2-2/A1
Approvals		VDE		
Supply				
Rated operational current I _e	At p.f. = 0.6 1 (AC-15)	16 A		16 A
Primary operating range		0.8 1.1 × U	c	0.8 1.1 × U _c
Rated frequency f _c		50 Hz		50 Hz
Rated power dissipation P _v	Magnet coil, only pulse	4.5 W / 7 VA		9 W / 13 VA
	Per pole, max.	1.2 W		1.2 W
Contacts				
Contact gap		>1.2 mm		
Minimum contact load		10 V; 100 mA		
Electrical service life at l_e/U_e , p.f. = 0.6, incandescent lamp load 600 W	Switching cycles	50000		
Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles)	At AC-5b (230 V)	1200 W		
Glow lamp load at 230 V		5 mA		
	With 1 5TT4920 compensator	25 mA		
	With 2 5TT4920 compensators	45 mA		
Minimum pulse duration		50 ms		
Safety				
Different phases between magnet coil and contact		Permissible		
Clearances	Between magnet coil and contact	>6 mm		
Creepage distances	Between magnet coil and contact	>6 mm		
Rated impulse withstand voltage U _{imp}		4 kV		
Function				
Manual operation		Yes		
Switching position indication		Yes		
Connections				
Terminals	± Screw (Pozidriv)	PZ 1		
	Max. tightening torque	0.8 1 Nm		
Environmental conditions				
Permissible ambient temperature		−10 +40 °C		
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	35 °C		
Degree of protection	Acc. to EN 60529	IP20, with co	nnected conduc	itors

Auxiliary switche	s									
9	 One device per remot 	One device per remote control switch can be retrofitted								
2	Contacts	Version	l _e	U _e	Mounting width	Article No.				
7	1 CO	Standard	5 A	250 V AC	0.5 MW	5TT4900				
		For low power	0.1 A	30 V AC/DC	0.5 MW	5TT4901				
Compensator										
•••	For increasing the glow lamp load by 20 mA									
	U _e	Mounting width				Article No.				
	250 V AC	1 MW				5TT4920				

5TT41 remote control switches

For special applications, rated current 16 A

Rigid conductor cross-section
Flexible conductor cross-section, with end sleeve

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Contacts	U _e	U _c AC	Mounting width	Auxiliary switches cannot be retrofitted	Auxiliary switches cannot be retrofitted
1 NO	250 V	230 V	1.5 MW	5TT4121-0	5TT4151-0
		24 V	1.5 MW	5TT4121-2	5TT4151-2
2 NO	400 V	230 V	1.5 MW	5TT4122-0	5TT4152-0
		24 V	1.5 MW	5TT4122-2	5TT4152-2
3 NO	400 V	230 V	2.5 MW	5TT4123-0	-
1 NO + 1 NC	250 V	115 V	1.5 MW	5TT4125-0	-



Further technical specifications		5TT412 5TT415	5TT413 5TT414
Standards			
Standards		IEC 60669-1, IEC 60669-2, IE EN 60669 (VDE 0632), EN 60	
Approvals		VDE	
Supply			
Rated operational current I _e	At p.f. = 0.6 1 (AC-15)	16 A	
Primary operating range		0.8 1.1 × U _c	
Rated frequency f _c		50 Hz	
Rated power dissipation P _v	Magnet coil, only pulse	4.5 W / 7 VA	
	Per pole, max.	1.2 W	
Contacts			
Contact gap		>1.2 mm	
Minimum contact load		10 V; 100 mA	
Electrical service life at I_e/U_e , p.f. = 0.6, incandescent lamp load 600 W	Switching cycles	50000	
Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles)	At AC-5b (230 V)	1200 W	
Glow lamp load at 230 V		5 mA	
	With 1 5TT4920 compensator	25 mA	
	With 2 5TT4920 compensators	45 mA	
Minimum pulse duration		50 ms	
Safety			
Different phases between magnet coil and contact		Permissible	
Clearances	Between magnet coil and contact	>6 mm	
Creepage distances	Between magnet coil and contact	>6 mm	
Rated impulse withstand voltage U _{imp}		4 kV	
Function			
Manual operation		Yes	Yes
Switching position indication		Yes	-
Connections			
Terminals	± Screw (Pozidriv)	PZ 1	
	Max. tightening torque	0.8 1 Nm	
Environmental conditions			
Permissible ambient temperature		−10 +40 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	35 °C	
Degree of protection	Acc. to EN 60529	IP20, with connected conduc	ctors

Auxiliary switches • One device per remote control switch can be retrofitted									
3	Contacts	Version	I _e	U _e	Mounting width	Article No.			
	1 CO	Standard	5 A	250 V AC	0.5 MW	5TT4900			
		For low power	0.1 A	30 V AC/DC	0.5 MW	5TT4901			
Compensator	r								
• •	 For increasing t 	For increasing the glow lamp load by 20 mA							
	U _e	Mounting width				Article No.			
	250 V AC	1 MW				5TT4920			

5TT44 remote control switches

Rated current 20 A - 63 A

	Rated operational	Rated operational current I _e							
	20 A	25 A	32 A	40 A	63 A				
Rigid conductor cross-section	1 10 mm ²	1 10 mm ²	1 10 mm ²	2.5 25 mm ²	2.5 25 mm ²				
Flexible conductor cross-section, with end sleeve	1 10 mm ²	1 10 mm ²	1 10 mm ²	2.5 25 mm ²	2.5 25 mm ²				

Contacts	U _e	U _c AC	U _c DC	Mounting width																			
For AC applic	ations – a	auxiliary	switche	s can be retro	fitted																		
1 NO + 1 NC	440 V	230 V	-	1 MW	5TT4405-0	5TT4425-0	5TT4455-0	-	_														
				2 MW	-	-	-	5TT4465-0	5TT4475-0														
		24 V	-	1 MW	5TT4405-2	5TT4425-2	5TT4455-2	_	_														
				2 MW	-	-	-	5TT4465-2	5TT4475-2														
1 CO	250 V	230 V	_	1 MW	5TT4407-0	-	-	-	_														
		24 V	-	1 MW	5TT4407-2	-	-	-	_														
2 NO	440 V	230 V	-	1 MW	5TT4402-0	5TT4422-0	5TT4452-0	-	-														
				2 MW	-	-	-	5TT4462-0	5TT4472-0														
	24 V	24	24 V	-	1 MW	5TT4402-2	5TT4422-2	5TT4452-2	-	_													
				2 MW	-	-	-	5TT4462-2	5TT4472-2														
2 CO	440 V	230 V	_	2 MW	_	5TT4428-0	5TT4458-0	5TT4468-0	5TT4478-0														
		24 V	-	2 MW	-	5TT4428-2	5TT4458-2	5TT4468-2	5TT4478-2														
4 NO	440 V	/ 230 V	230 V	230 V	230 V	_	2 MW	_	5TT4424-0	5TT4454-0	-	_											
				4 MW	-	-	-	5TT4464-0	5TT4474-0														
		24 V	-	2 MW	-	5TT4424-2	5TT4454-2	-	_														
				4 MW	-	-	-	5TT4464-2	5TT4474-2														
2 NO + 2 NC	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	440 V	230 V	_	2 MW	_	5TT4426-0	5TT4456-0	-	_
				4 MW	-	-	-	5TT4466-0	5TT4476-0														
						24 V	24 V –	-	2 MW	-	5TT4426-2	5TT4456-2	-	_									
				4 MW	-	-	-	5TT4466-2	5TT4476-2														
For DC applic	ations																						
1 NO	250 V	_	24 V	1 MW	5TT4411-5	5TT4431-5	5TT4451-5	-	_														
2 NO	440 V	_	24 V	1 MW	5TT4412-5	5TT4432-5	5TT4452-5	_	_														
1 NO + 1 NC	440 V	_	24 V	1 MW	5TT4415-5	5TT4435-5	5TT4455-5	-	-														
1 CO	250 V	-	24 V	1 MW	5TT4417-5	5TT4437-5	5TT4457-5	-	-														

Further technical specific	ations	5TT440	5TT442	5TT445	5TT446	5TT447
Standards						
Standards		IEC 60669-2-2	IEC 60669-2-2	IEC 60669-2-2	IEC/EN 60947-4-1	IEC/EN 60947-4-1
Approvals		CE	CE	CE	CE	CE
Supply						
Rated operational current I _e	At p.f. = 0.6 1 (AC-15)	20 A	25 A	32 A	40 A	63 A
Rated frequency f _c		50/60 Hz				
Rated power dissipation P _v	Magnet coil, "On" pulse	13 W / 18 VA	13 W / 18 VA	13 W / 18 VA	12 W / 26 VA	12 W / 26 VA
	Per pole, max.	1.5 W	2 W	3 W	3 W	3.5 W
Rated operational power (AC-3)	1-phase, at 230 V	0.5 kW	0.75 kW	1.1 kW	2.2 kW	4 kW
	3-phase, at 230 V	1.5 kW	2.2 kW	3 kW	5.5 kW	11 kW
	3-phase, at 400 V	3 kW	4 kW	5.5 kW	11 kW	18.5 kW
Contacts						
Contact gap		>3 mm				
Minimum contact load AC		10 V; 100 mA				
Electrical service life at I_e/U_e , p. f. = 0.6, incandescent lamp load 600 W	Switching cycles	50000	50000	50000	50000	50000
Incandescent lamp load (switching of incandescent lamps for 15000 switching cycles)	At AC-5b (230 V)	4400 W	5500 W	7000 W	8800 W	13800 W
Max. switching speed	In switching cycles per hour	600 h ⁻¹	450 h ⁻¹	450 h ⁻¹	360 h ⁻¹	360 h ⁻¹
Safety						
Different phases between magnet coi	l and contact	Permissible				
Rated impulse withstand voltage U _{imp}		3 kV				
Function						
Manual operation		Yes				
Switching position indication		Yes				
Connections						
Terminals	± Screw (Pozidriv)	Coil: PZ 1, cont	act: PZ 2			
	Max. tightening torque	Coil: 0.6 Nm, co	ontact: 1.2 Nm		Coil: 0.6 Nm, conta	act: 2 Nm
Coil conductor cross-sections		1 4 mm ²				
Environmental conditions						
Permissible ambient temperature	For operation/for storage	−25 +55 °C /	−30 +80 °C			
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	55 °C				
Degree of protection	Acc. to EN 60529	IP20				
Mounting position		Any (not upside	e down)			

Auxiliary switch										
4	Contacts	U _e	I _e	Mounting width	Article No.					
	1 NO + 1 NC	250 V AC	16 A	0.5 MW	5TT4930					
Auxiliary switches	s, central with diode									
4	For central function (no auxiliary switch)									
	U _e	Mounting width			Article No.					
4	250 V AC	0.5 MW			5TT4931					
Auxiliary switches	s, group with several dio	des								
(For group function (no	auxiliary switch)								
515	U _e	Mounting width			Article No.					
M Indian	250 V AC	0.5 MW			5TT4932					

5TT4 auxiliary switches

For 5TT4 remote control switches

Rigid conductor cross-section Flexible conductor cross-section, with end sleeve

	Auxiliary switches for 5TT41	Auxiliary switches for 5TT44
n	0.5 2.5 mm ²	1 4 mm ²
e	0.5 2.5 mm ²	1 4 mm²
		M. manufichi

					NL.Y			
Contacts	Version	l _e	U _e	Mounting width				
Auxiliary switches								
1 NO + 1 NC	Standard	16 A	250 V AC	0.5 MW	-	5TT4930		
1 CO	Standard	5 A	250 V AC	0.5 MW	5TT4900	-		
	For low power	0.1 A	30 V AC/DC	0.5 MW	5TT4901	-		
Auxiliary switches, o	entral with diode for o	entral funct	ion (no auxiliar	y switch)				
			250 V AC	0.5 MW	-	5TT4931		
Auxiliary switches, g	Auxiliary switches, group with several diodes for group function (no auxiliary switch)							
			250 V AC	0.5 MW	-	5TT4932		

		Auxiliary switches for 5TT41 5TT4900	Auxiliary switches for 5TT44		
Further technical specifi	cations	5TT4901	5TT4930	5TT4931	5TT4932
Standards					
Standards		EN 60947-1 (VDE 0660 Part 100) EN 60947-5-1 (VDE 0660 Part 200)	IEC/EN 60947-5	5-1	
Approvals		-	CE, EAC		
Supply					
Rated operational current I _e	At p.f. = 0.6 1 (AC-15)	16 A	4 A	_	_
Rated frequency f _c		-	50/60 Hz		
Rated power dissipation P _v	Per pole, max.	-	0.3 W		
Contacts					
Contact gap		<1.2 mm	>3 mm	>3 mm	>3 mm
Minimum contact load		5 V; 1 mA	12 V; 5 mA	12 V; 5 mA	12 V; 5 mA
Electrical service life at I _e /U _e , p.f. = 0.6,	Switching cycles	-	100000	-	-
incandescent lamp load 600 W					
Safety					
Clearances	Between magnet coil and contact	>6 mm	-		
Creepage distances	Between magnet coil and contact	>6 mm	-		
Rated impulse withstand voltage U _{ir}	np	1 kV	1 kV		
Pushbutton malfunction protected against continuous voltage, safe due to design		Yes	-		
Function					
Manual operation		-	No		
Switching position indication		-	No		
Connections					
Terminals	± Screw (Pozidriv)	PZ 1	PZ 1		
	Max. tightening torque	0.5 Nm	0.8 Nm		
Environmental conditions					
Permissible ambient temperature	For operation/for storage	-10 +40 °C / −10 +40 °C	−25 +70 °C /	−30 +80 °C	
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	35 ℃	55 °C		
Degree of protection	Acc. to EN 60529	IP20, with connected conductors	IP20		
Mounting position		Any	Any (not upside	e down)	

Compensator			
	For increasing t	he glow lamp load by 20 mA	
• •	U _e	Mounting width	Article No.
	250 V AC	1 MW	5TT4920

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5TT42 switching relays

Rated current 16 A

Rated operational current I_e

Rigid conductor cross-section 1 ... 6 mm²
Flexible conductor cross-section, with end sleeve 1 ... 6 mm²



Contacts	U _e	U _c AC	U _c DC	Mounting wi	idth
1 NO	250 V	230 V	-	1 MW	5TT4201-0
		115 V	-	1 MW	5TT4201-1
		24 V	-	1 MW	5TT4201-2
		12 V	-	1 MW	5TT4201-3
		8 V	-	1 MW	5TT4201-4
2 NO	400 V	230 V	-	1 MW	5TT4202-0
		115 V	-	1 MW	5TT4202-1
		24 V	-	1 MW	5TT4202-2
		12 V	-	1 MW	5TT4202-3
		8 V	-	1 MW	5TT4202-4
4 NO	400 V	230 V	-	1 MW	5TT4204-0
		115 V	-	1 MW	5TT4204-1
		24 V	-	1 MW	5TT4204-2
		12 V	-	1 MW	5TT4204-3
		8 V	-	1 MW	5TT4204-4
1 NO + 1 NC	400 V	230 V	-	1 MW	5TT4205-0
		115 V	-	1 MW	5TT4205-1
		24 V	-	1 MW	5TT4205-2
		12 V	-	1 MW	5TT4205-3
		8 V	-	1 MW	5TT4205-4
1 CO	250 V	230 V	-	1 MW	5TT4206-0
		115 V	-	1 MW	5TT4206-1
		24 V	-	1 MW	5TT4206-2
		12 V	-	1 MW	5TT4206-3
		8 V	-	1 MW	5TT4206-4
2 CO	400 V	230 V	-	1 MW	5TT4207-0
		115 V	-	1 MW	5TT4207-1
		24 V	-	1 MW	5TT4207-2
		12 V	-	1 MW	5TT4207-3
		8 V	-	1 MW	5TT4207-4
		-	110 V	1 MW	5TT4217-1
			30 V	1 MW	5TT4217-6
			24 V	1 MW	5TT4217-2
			12 V	1 MW	5TT4217-3

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Further technical specifications		5TT4201	5TT4202	5TT4204	5TT4205	5TT4206	5TT4207	5TT4217		
Standards										
Standards		EN 60947-5-1	I, EN 60669-2-	2						
Approvals		VDE, CCC								
Supply										
Rated operational current I _e	At p.f. = 0.6 1	16 A								
Primary operating range		0.81.1×U _c								
Rated frequency f _c		50 Hz								
Rated power dissipation P _v	Magnet coil	2.4 W 3.0 VA	2.4 W 3.0 VA	4.8 W 6.0 VA	2.4 W 3.0 VA	2.4 W 3.0 VA	2.4 W 3.0 VA	1.7 W 1.7 VA		
	Per pole, max.	1.0 W								
Contacts										
Contact gap		>1.2 mm								
Minimum contact load		10 V AC; 100	mA							
Electrical service life at I _e /U _e , p.f. = 0.6, incandescent lamp load 600 W	Switching cycles	50000								
Safety										
Different phases between magnet of	coil and contact	Permissible								
Safe separation		>6 mm								
Rated impulse withstand voltage U	imp	4 kV								
Function										
Manual operation		Yes								
Connections										
Terminals	± Screw (Pozidriv)	PZ 1								
	Max. tightening torque	0.8 1 Nm								
Environmental conditions										
Permissible ambient temperature		−10 +40 °C	•							
Resistance to climate at 95% relative humidity	Acc. to DIN 50015	35 °C								
Degree of protection	Acc. to EN 60529	IP20, with co	nnected condu	ctors						

Spacer



- Contour for modular devices with a mounting depth of 70 mm
 Can be snapped onto either side of the busbar for convenient cable routing
 Spacer is recommended for better heat dissipation

Article No. 5TG8240

5TT50 Insta contactors

AC/DC technology

Main connection conductor cross-section, solid
Main connection conductor cross-section,
stranded with end sleeve
Main connection conductor cross-section, AWG

Rated operational current I _e									
20 A	25 A	40 A	63 A						
1.0 10 mm ²	1.5 25 mm ²	1.5 25 mm ²	1.5 25 mm ²						
1.0 6 mm ²	1.5 16 mm ²	1.5 16 mm ²	1.5 16 mm ²						
16 8	16 4	16 4	16 4						
10 10 10	986 985								

Contacts	U _e	U _c AC	U _c DC	Mounting width				
Insta contacto	ors with n	nanual swi	tch					
2 NO	230 V	230 V	220 V	1 MW	5TT5000-0	-	-	-
		24 V	24 V	1 MW	5TT5000-2	-	-	-
4 NO	400 V	230 V	220 V	2 MW	_	5TT5030-0	_	_
				3 MW	_	_	5TT5040-0	5TT5050-0
		115 V	110 V	2 MW	-	5TT5030-1	-	-
		24 V	24 V	2 MW	-	5TT5030-2	-	-
				3 MW	-	-	5TT5040-2	5TT5050-2
2 NC	230 V	230 V	220 V	1 MW	5TT5002-0	-	-	_
		24 V	24 V	1 MW	5TT5002-2	-	-	-
4 NC	400 V	230 V	220 V	2 MW	-	5TT5033-0	-	-
				3 MW	-	-	5TT5043-0	-
		24 V	24 V	2 MW	-	5TT5033-2	_	-
				3 MW	-	-	5TT5043-2	-
1 NO + 1 NC	230 V	230 V	220 V	1 MW	5TT5001-0	-	-	-
		24 V	24 V	1 MW	5TT5001-2	-	-	-
2 NO + 2 NC	400 V	230 V	220 V	2 MW	-	5TT5032-0	-	-
				3 MW	-	-	5TT5042-0	5TT5052-0
		24 V	24 V	2 MW	-	5TT5032-2	-	-
				3 MW	-	-	5TT5042-2	5TT5052-2
3 NO + 1 NC	400 V	230 V	220 V	2 MW	-	5TT5031-0	-	-
				3 MW	-	-	5TT5041-0	5TT5051-0
		24 V	24 V	2 MW	-	5TT5031-2	-	-
				3 MW	-	-	5TT5041-2	5TT5051-2
Insta contacto	ors with C)/I/Automa	tic					
2 NO	230 V	230 V	220 V	1 MW	5TT5000-6	-	-	-
		24 V	24 V	1 MW	5TT5000-8	-	-	-
4 NO	400 V	230 V	220 V	2 MW	-	5TT5030-6	-	-
		24 V	24 V	2 MW	-	5TT5030-8	-	-
1 NO + 1 NC	230 V	230 V	220 V	1 MW	5TT5001-6	-	-	-
		24 V	24 V	1 MW	5TT5001-8	-	-	-
3 NO + 1 NC	400 V	230 V	220 V	2 MW	-	5TT5031-6	-	-
		24 V	24 V	2 MW	-	5TT5031-8	-	-

Further technical specification	15	5TT500	5TT503	5TT504	5TT505
Standards					
Standards		EN 60947-4-1; El	N 60947-5-1; EN 6	1095	
Approvals		UL 508; UL File N	lo. E303328		
Supply					
Rated operational current I _e	AC-1/AC-7a, NO contacts / NC contacts	20 A / 20 A	25 A / 25 A	40 A / 40 A	63 A / 63 A
	AC-3/AC-7b, NO contacts / NC contacts	9 A / 6 A	8.5 A / 8.5 A	22 A / 22 A	30 A / 30 A
Primary operating range		$0.85 \dots 1.1 \times U_{c}$	$0.85 \dots 1.1 \times U_{c}$	0.85 1.1 × U _c	0.85 1.1 × U _c
Rated frequency f _c at AC		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated power dissipation P _v	Pick-up power (without manual switch or with manual switch in "I" position)	2.1 VA / 2.1 W	2.6 VA / 2.6 W	5 VA / 5 W	5 VA / 5 W
	Pick-up power (with manual switch in "AUTO" position)	2.1 VA / 4.1 W	2.6 VA / 2.6 W	5 VA / 5 W	5 VA / 5 W
	Holding power	2.1 VA / 2.1 W	2.6 VA / 2.6 W	5 VA / 5 W	5 VA / 5 W
	Per contact AC-1/AC-7a	1.7 VA	2.2 VA	4 VA	8 VA
Contacts					
Contact gap (NO contacts)	Min.	3.6 mm	3.6 mm	3.6 mm	3.6 mm
Minimum switching capacity	(= minimum contact load)	≥17 V; 50 mA	≥17 V; 50 mA	≥17 V; 50 mA	≥17 V; 50 mA
Electrical service life at I _e and load	AC-1/AC-7a switching cycles	200000	200000	100000	100000
	AC-3/AC-7b switching cycles	300000	500000	500000	150000
Mechanical service life	Switching cycles	3 million	3 million	3 million	3 million
Switching of resistive loads AC-1	Single-phase (NO contacts)	4 kW (230 V)	5.4 kW (400 V)	8.7 kW (400 V)	13.3 kW (400 V)
at rated operational power P _s	Three-phase (NO contacts)	_	16 kW (400 V)	26 kW (400 V)	40 kW (400 V)
Switching of three-phase asynchronous	Single-phase (NO contacts)	1.3 kW / 0.75 kW	1.3 kW / 1.3 kW	3.7 kW / 3.7 kW	5/5 kW
motors AC-3 at rated operational power P _s	Three-phase (NO contacts)	_	4 kW	11 kW	15 kW
Maximum switching frequency at load	AC-1/AC-7a / AC-3/AC-7b	600 h ⁻¹	600 h ⁻¹	600 h ⁻¹	600 h ⁻¹
Safety					
Rated impulse withstand voltage U _{imp}		≤4 kV	≤4 kV	≤4 kV	≤4 kV
Short-circuit protection, according to coordination type 1	Back-up fuse characteristic gL/gG	20 A	25 A	63 A	80 A
Overload withstand capability at 10 s	Per conducting path (NO contacts only)	72 A	68 A	176 A	240 A
Function					
Switching times	Closing (NO contacts)	15 ms 45 ms	15 ms 45 ms	15 ms 20 ms	15 ms 20 ms
	Opening (NO contacts)	20 ms 50 ms	20 ms 70 ms	35 ms 45 ms	35 ms 45 ms
Connections					
Coil/main connection terminals	± Screw (Pozidriv)	PZ 1 / PZ 1	PZ 1 / PZ 2	PZ 1 / PZ 2	PZ 1 / PZ 2
Coil connection conductor cross-section	Solid	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²
	Stranded, with end sleeve	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²
	AWG cables	16 10	16 10	16 10	16 10
Main connection conductor cross-section	Solid	1.0 10 mm ²	1.5 25 mm ²	1.5 25 mm ²	1.5 25 mm ²
	Stranded, with end sleeve	1.0 6 mm ²	1.5 16 mm ²	1.5 16 mm ²	1.5 16 mm ²
	AWG cables	16 8	16 4	16 4	16 4
Tightening torque	Coil connection	0.6 Nm/8 lbs/in.	0.6 Nm/8 lbs/in.	0.6 Nm/8 lbs/in.	0.6 Nm/8 lbs/in
3 .	Main connection	1.2 Nm/9 lbs/in.	3.5 Nm/20 lbs/in.	3.5 Nm/20 lbs/in.	3.5 Nm/20 lbs/in
Environmental conditions					
Permissible ambient temperature	For operation 1) / For storage	−15 +55 °C / −	50 +80 °C		
Degree of protection	Acc. to EN 60529	IP 20, with conne			
Characteristics according to UL 508					
Rated operational current I _n		20 A	25 A	40 A	63 A
UL 508 General Use 240 V/480 V	FLA	20 A	25 A	40 A	63 A
		20 A	25 A	30 A	40 A
UL 508 AC discharge lamps		20 A	23 /\	30 A	40 /
UL 508 AC discharge lamps UL 508 motor load	Power 240 V / 480 V	1 hp / –	3 hp / 5 hp	7,5 hp / 15 hp	10 hp / 20 hp

¹⁾ Contactors can be operated at ambient temperatures of between -25 °C and +70 °C, but only under special conditions.

For more information, please contact Siemens Support. For questions concerning heat dissipation, please refer to the instructions in the Configuration Manual "Switching Devices".

Auxiliary switches								
0.0	For right-hand-side reMax. one auxiliary swi							
2	Contacts	Article No.						
	2 NO	0.5 MW	5TT5910-0					
20	1 NO + 1 NC	0.5 MW	5TT5910-1					

Sealable terminal covers					
	For Insta contactor	Mounting width	Article No.		
	20 A	1 MW	5TT5910-5		
	25 A	2 MW	5TT5910-6		
	40 A and 63 A	3 MW	5TT5910-7		

5TT58 Insta contactors

AC technology

Main connection conductor cross-section, rigid

Main connection conductor cross-section,
flexible with end sleeve

Rated operational current I _e					
20 A	25 A	40 A	63 A		
1.0 10 mm ²	1.0 10 mm ²	1 25 mm ²	1 25 mm ²		
1.0 6 mm ²	1.0 6 mm ²	1 16 mm ²	1 16 mm ²		
		••••	2000		

						11.2		
Contacts	U_e	U _c AC		Mounting width				
Insta contacto	rs without	manual	switch					
2 NO	230 V	230 V		1 MW	5TT5800-0	-	-	-
		24 V		1 MW	5TT5800-2	-	-	-
4 NO	400 V	230 V	Standard	2 MW	-	5TT5830-0	-	-
				3 MW	_	-	5TT5840-0	5TT5850-0
			Capacitive loads up to 150 µF	2 MW	-	5TT5820-0	-	-
		115 V		2 MW	-	5TT5830-1	-	-
		24 V		2 MW	-	5TT5830-2	-	-
				3 MW	-	-	5TT5840-2	5TT5850-2
2 NC	230 V	230 V		1 MW	5TT5802-0	-	_	-
		24 V		1 MW	5TT5802-2	-	-	-
4 NC	400 V	230 V		2 MW	_	5TT5833-0	_	-
				3 MW	-	-	5TT5843-0	5TT5853-0
		24 V		2 MW	-	5TT5833-2	-	-
			3 MW	-	-	5TT5843-2	5TT5853-2	
1 NO + 1 NC	230 V	230 V		1 MW	5TT5801-0	-	_	_
		24 V		1 MW	5TT5801-2	_	-	_
2 NO + 2 NC 400 V	+ 2 NC 400 V 230 V		2 MW	_	5TT5832-0	-	-	
			3 MW	-	-	5TT5842-0	5TT5852-0	
		24 V	2 MW	-	5TT5832-2	-	-	
			3 MW	-	-	5TT5842-2	5TT5852-2	
3 NO + 1 NC	NC 400 V 230 V		2 MW	-	5TT5831-0	-	-	
			3 MW	-	-	5TT5841-0	5TT5851-0	
		115 V		2 MW	-	5TT5831-1	-	-
		24 V		2 MW	-	5TT5831-2	-	-
			3 MW	-	_	5TT5841-2	5TT5851-2	
Insta contacto	rs with ma	nual swi	tch O/I/Automatic					
2 NO	230 V	230 V		1 MW	5TT5800-6	-	-	-
		24 V		1 MW	5TT5800-8	-	-	-
4 NO	400 V	230 V		2 MW	_	5TT5830-6	_	-
				3 MW	-	-	5TT5840-6	5TT5850-6
		24 V		2 MW	-	5TT5830-8	-	-
				3 MW	_	_	5TT5840-8	_
1 NO + 1 NC	230 V	230 V		1 MW	5TT5801-6	-	-	-
		24 V		1 MW	5TT5801-8	-	-	-
3 NO + 1 NC	400 V	230 V		2 MW	-	5TT5831-6	-	-
				3 MW	_	_	5TT5841-6	_
		24 V		2 MW	_	5TT5831-8	-	-
			3 MW			5TT5841-8		

Further technical specifications		5TT580.	5TT582. 5TT583.	5TT584.	5TT585.
Standards					
Standards			EC 60947-5-1, IEC (N 61095, VDE 066)	51095; EN 60947-4 0	1-1,
Supply					
Number of poles		2	4	4	4
Rated operational current I _e		20 A	25 A	40 A	63 A
Primary operating range		0.85 1.1 × U _c	0.85 1.1 × U _c	0.85 1.1 × U _c	0.85 1.1 × U _c
Rated frequency f _c at AC		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated power dissipation P _v	Pick-up power (without manual switch or manual switch in "I" position)	6 VA / 3.8 W	10 VA / 5 W	15.4 VA / 4.6 W	15.4 VA / 4.6 W
	Pick-up power (with manual switch in "AUTO" position)	12 VA / 10 W	33 VA / 25 W	62 VA / 50 W	62 VA / 50 W
	Holding power	2.8 VA / 1.2 W	5.5 VA / 1.6 W	7.7 VA / 3 W	7.7 VA / 3 W
	Per contact AC-1/AC-7a	1.7 VA	2.2 VA	4 VA	8 VA
Contacts					
Contact gap	Minimum	3.6 mm	3.6 mm	3.4 mm	3.4 mm
Minimum switching capacity	(= minimum contact load)	≥17 V; 50 mA	≥17 V; 50 mA	≥17 V; 50 mA	≥17 V; 50 mA
Electrical service life at I _e and load	AC-1/AC-7a switching cycles	200000	200000	100000	100000
	AC-3/AC-7b switching cycles	300000	500000	150000	150000
Mechanical service life	Switching cycles	3 million	3 million	3 million	3 million
Switching of resistive loads AC-1/AC-7a	Single-phase (230 V) (NO contacts)	4 kW	5.4 kW	8.7 kW	13.3 kW
for rated operational power P _s	Three-phase (400 V) (NO contacts)	_	16 kW	26 kW	40 kW
Switching of three-phase asynchronous mo-	Single-phase (230 V) (NO contacts)	1.3 kW ¹⁾	1.3 kW	3.7 kW	5 kW
tors AC-3/AC-7b for rated operational power P _s	Three-phase (400 V) (NO contacts)	_	4 kW	11 kW	15 kW
Maximum switching frequency at load		600 h ⁻¹	600 h ⁻¹	600 h ⁻¹	600 h ⁻¹
Safety					
Rated insulation voltage U _i		440 V	440 V	500 V	500 V
Rated impulse withstand voltage U _{imp}		4 kV	4 kV	4 kV	4 kV
Short-circuit protection, according to coordination type 1	Back-up fuse characteristic gL/gG	20 A	25 A	63 A	80 A
Overload withstand capability at 10 s	Per conducting path (NO contacts only)	72 A	68 A	176 A	240 A
Function					
Switching times	Closing (NO contacts)	15 ms 25 ms	10 ms 20 ms	15 ms 20 ms	15 ms 20 ms
	Opening (NO contacts)	20 ms	20 ms	10 ms	10 ms
	Closing (NC contacts)	20 ms 30 ms	20 ms 30 ms	5 ms 10 ms	5 ms 10 ms
	Opening (NC contacts)	10 ms	10 ms	10 ms 15 ms	10 ms 15 ms
Connections					
Coil connection terminals	± Screw (Pozidriv)	PZ 1	PZ 1	PZ 1	PZ 1
Main connection terminals	± Screw (Pozidriv)	PZ 1	PZ 1	PZ 2	PZ 2
Coil connection conductor cross-section	Rigid	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²
	Flexible, with end sleeve	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²	1.0 2.5 mm ²
Main connection conductor cross-section	Rigid	1.0 10 mm ²	1.0 10 mm ²	1 25 mm ²	1 25 mm²
	Flexible, with end sleeve	1.0 6 mm ²	1.0 6 mm ²	1 16 mm ²	1 16 mm ²
Tightening torque	Coil connection	0.6 Nm	0.6 Nm	0.6 Nm	0.6 Nm
	Main connection	1.2 Nm	1.2 Nm	3.5 Nm	3.5 Nm
Environmental conditions					
Permissible ambient temperature	For operation/for storage	-5 +55 °C / −3	0 +80 °C		
Degree of protection	Acc. to EN 60529	IP 20, with conne	ected conductors		

¹⁾ For NO contacts only.

Auxiliary switches					
	For right-hand-side retiMax. one auxiliary swit				
1	Contacts	Mounting width	Article No.		
	2 NO	0.5 MW	5TT5910-0		
	1 NO + 1 NC	0.5 MW	5TT5910-1		

Sealable terminal covers					
	For Insta contactor	Mounting width	Article No.		
	20 A	1 MW	5TT5910-5		
	25 A	2 MW	5TT5910-6		
	40 A and 63 A	3 MW	5TT5910-7		

5TT5 auxiliary switches

For 5TT5 Insta contactor

Rigid conductor cross-section 1 ... 2.5 mm² Flexible conductor cross-section, with end sleeve 1 ... 2.5 mm²



Contacts	U _e AC	Mounting width	
2 NO	230 V / 400 V	0.5 MW	5TT5910-0
1 NO + 1 NC	230 V / 400 V	0.5 MW	5TT5910-1

Further technical specifications 5TT5910

Standards		
Standards		IEC 60947-5-1
Approvals		CCC
Supply		
Number of poles		2
Rated operational current I _e	230 V	6 A
	400 V	4 A
Rated frequency f _c at AC		50/60 Hz
Contacts		
Contact gap	Minimum	4 mm
Minimum switching capacity	(= minimum contact load)	≥12 V; 5 mA
Mechanical service life	Switching cycles	3 million
Maximum switching frequency at load		600 h ⁻¹
Safety		
Rated insulation voltage U _i		500 V
Rated impulse withstand voltage U _{imp}		4 kV
Short-circuit protection, according to coordination type 1	Back-up fuse characteristic gL/gG	6 A
Connections		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-section	Rigid	1 2.5 mm ²
	Flexible, with end sleeve	1 2.5 mm ²
Tightening torque		0.8 Nm
Environmental conditions		
Permissible ambient temperature	For operation/for storage	−5 +55 °C / −30 +80 °C
Degree of protection	Acc. to EN 60529	IP 20, with connected conductors

5TT3 soft-starting devices

For two-phase motor control

 $\label{eq:Rigid} \mbox{Rigid conductor cross-section} \quad \mbox{Max. } 2\times 2.5 \mbox{ mm}^2 \\ \mbox{Flexible conductor cross-section, with end sleeve} \quad \mbox{Min. } 1\times 0.5 \mbox{ mm}^2 \\ \mbox{Min. } 1\times 0.5 \mbox{Min. }$

Max. 2× 2.5 mm²

Min. 1× 0.5 mm²

Version	U _e AC	Mounting width	
Three-phase	400 V	6 MW	5TT3440

Further technical specifications 5TT3440

Standards		
Standards		EN 60947-4-2 (VDE 0660-117)
Supply		
Line/motor voltage		400 V AC
Primary operating range		$0.8 1.1 \times U_{c}$
Rated frequency f _c at AC		50/60 Hz
Rated power		3.5 VA
Rated power dissipation P _v	Coil/drive	3.5 VA
at rated operational current	Per contact	4.6 VA
Rated output of motor at 400 V	Max.	5500 VA
	Min.	300 VA
Startup voltage		30 70%
Starting ramp		0.1 10 s
Safety		
Quick-acting semiconductor fuse		35 A
Function		
Switching frequency $3 \times I_N$, $T_{AN} = 10 \text{ s}$, $v_u = 20\%$	Switching cycles (up to 3 kW)	36 h ⁻¹
	Switching cycles (from 3 5.5 kW)	20 h ⁻¹
Recovery time		100 ms
Connections		
Conductor cross-section	Rigid	Max. 2× 2.5 mm ²
	Flexible, with end sleeve	Min. 1× 0.5 mm ²
Environmental conditions		
Permissible ambient temperature		−20 +60 °C
Resistance to climate	Acc. to EN 60068-1	20/60/4

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7LF4 digital time switches

Mini



- Weekly program
- 28 programs
- Automatic daylight-saving adjustment

Contacts	U _c	Channels	Mounting width	
1 NO	230 V AC	1	1 MW	7LF4501-5

Further technical sp	ecifications	Mini
Standards		
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Supply		
Primary operating range		0.85 1.1 × U _c
Frequency range		50/60 Hz
Rated power dissipation P _v		0.9 VA
Channels		
Rated operational voltage U _e		250 V AC
Rated operational current I _e	At p.f. = 1	16 A
	At p.f. = 0.6	10 A
Contacts		
Minimum contact load		12 V / 100 mA
Electrical switching cycles	At p.f. = 1	6000 (20 A)
Mechanical switching cycles		>5 million
Incandescent lamp load		5 A
Energy-saving lamp load		300 W
Fluorescent lamp load	Parallel p.f. correction 70 μF	60 VA
	Uncorrected	2500 VA
Safety		
Different phases between operating mechanism and co	ontact	Permissible
Rated impulse withstand vol	tage U _{imp}	4 kV
Electrostatic discharge	Acc. to IEC 61000-4-2	>8.0 kV
EMC: Burst	Acc. to IEC 61000-4-4	>4.4 kV
EMC: Surge	Acc. to IEC 61000-4-5	>2.0 kV
Overvoltage category	Acc. to EN 61010-1	III
Function		
Clock errors per day	Typical	±1 s/day
Power reserve storage	Battery	3 years
Make and break cycles		1 min
Minimum switching sequence	ces	1 min
Control input	Terminal S	-
Programs 1)		28
Battery type		Li primary cell
Connections		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	1.5 4 mm²
of main current path	Flexible, with end sleeve	Max. 2.5 mm ²
Environmental conditions		
Permissible ambient	For operation/	−10 +55 °C /
temperature	for storage	−20 +60 °C
Resistance to climate	Acc. to EN 60068-1	10/055/21
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Safety class	Acc. to EN 61140	II

 $^{^{1)}\,}$ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

Top



- Weekly program
- 28 programs
- Text-assisted programming concept
 - Language: English
- Manual daylight-saving adjustment

Contacts	U _c	Channels	Mounting width	
1 CO	230 V AC	1	2 MW	7LF4511-0
2 CO	230 V AC	2	2 MW	7LF4512-0

Further technical sp	ecifications	Тор
Standards		
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Supply		
Primary operating range		0.85 1.1 × U _c
Frequency range		50/60 Hz
Rated power dissipation P _v		2 VA
Channels		
Rated operational voltage U_e		250 V AC
Rated operational current I _e	At p.f. = 1	16 A
	At p.f. = 0.6	10 A
Contacts		
Minimum contact load		12 V / 100 mA
Electrical switching cycles	At p.f. = 1	100000
Mechanical switching cycles		10 million
Incandescent lamp load		8 A
Energy-saving lamp load		60 VA
Fluorescent lamp load	Parallel p.f. correction 70 µF	60 VA
	Uncorrected	2300 VA
Safety		
Different phases between operating mechanism and co	ontact	Permissible ²⁾
Rated impulse withstand volt	tage U _{imp}	4 kV
Electrostatic discharge	Acc. to IEC 61000-4-2	>8.0 kV
EMC: Burst	Acc. to IEC 61000-4-4	>4.4 kV
EMC: Surge	Acc. to IEC 61000-4-5	>2.0 kV
Overvoltage category	Acc. to EN 61010-1	III
Function		
Clock errors per day	Typical	±1.5 s/day
Power reserve storage	Battery	3 years
Make and break cycles	· · · · · ,	1 min
Minimum switching sequence	res	1 min
Control input	Terminal S	No
Programs 1)		28 (14 per channel)
Program memory	Captive	No
Battery type	capare	Li primary cell
Connections		Li primary cen
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	1.5 4 mm²
of main current path	Flexible, with end sleeve	Max. 2.5 mm ²
Environmental conditions	rickibie, with the siecve	Wax. 2.5 mm
Permissible ambient	For operation/	−20 +55 °C <i>l</i>
temperature	for storage	-20 +60 °C
Resistance to climate	Acc. to EN 60068-1	20/055/21
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Safety class	Acc. to EN 61140	II

A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.
 The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch.
 This requirement is, however, admissible in the case of 1-channel time switch.

7LF4 digital time switches

Profi



- · Weekly program
- Vacation program
- Random program
- Expert mode
- Cycle function
- Text-assisted programming concept
 - 15 languages
- Simple program creation on a PC using the supplied software, with 7LF4941-0 USB adapter
- Automatic daylight-saving adjustment
- Operating hours counter, counting range: 65535 h
- Accurate to the second hh:mm:ss
- Synchronization 50/60 Hz

Contact	ts U _c	Channels	Mounting width	
1 CO	230 V AC	1	2 MW	7LF4521-0
	24 V AC/DC	1	2 MW	7LF4521-2
2 CO	230 V AC	2	2 MW	7LF4522-0
	24 V AC/DC	2	2 MW	7LF4522-2

Further technical sp	ecilications	Profi
Standards		
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Approvals		UL File No. E301698
Supply		
Primary operating range	U _c 230 V	0.85 1.1 × U _c
	U _c 24 V	0.9 1.1 × U _c
Frequency range	U _c 230 V	50/60 Hz
	U _c 24 V	50/60 Hz
Rated power dissipation P _v	U _c 230 V	2 VA
	U _c 24 V	2 VA
Channels		
Rated operational voltage U _e		250 V AC
Rated operational current I _e	At p.f. = 1	16 A
	At p.f. = 0.6	10 A
Contacts		
Minimum contact load		12 V / 100 mA
Electrical switching cycles	At p.f. = 1	100000
Mechanical switching cycles		10 million
Incandescent lamp load		8 A
Energy-saving lamp load		1000 W
Fluorescent lamp load	Parallel p.f. correction 70 µF	600 VA
Safety	Uncorrected	2000 VA
Different phases between		Permissible 2)
operating mechanism and co	ontact	T CTTTTISSIBIC
Rated impulse withstand vol		4 kV
Electrostatic discharge	Acc. to IEC 61000-4-2	>8.0 kV
EMC: Burst	Acc. to IEC 61000-4-4	>4.4 kV
EMC: Surge	Acc. to IEC 61000-4-5	>2.0 kV
Overvoltage category	Acc. to EN 61010-1	III
Function		
Clock errors per day	Typical	±0.1 s/day
Power reserve storage	Battery	5 years
Make and break cycles	,	1 s
Minimum switching sequence	es	1 s
Control input	Terminal S	No
Programs 1)	Terrimian 5	28
Program memory	Captive	Yes
Battery type	capare	Li primary cell
Connections		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	1.5 4 mm²
of main current path	Flexible, with end sleeve	Max. 2.5 mm ²
Environmental conditions		
Permissible ambient	For operation/for	−20 +55 °C /
temperature	storage	-20 +53 °C / -20 +60 °C
Resistance to climate	Acc. to EN 60068-1	20/055/21
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Safety class	Acc. to EN 61140	II
January Class	, to Lit 011110	

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

Astro



- Weekly program
- Vacation program
- Random program
- Expert mode
- Astro function
- Text-assisted programming concept
 - 15 languages
- Simple program creation on a PC using the supplied software, with 7LF4941-0 USB adapter
- Automatic daylight-saving adjustment
- Operating hours counter, counting range: 65535 h
- Accurate to the second hh:mm:ss
- Synchronization 50/60 Hz
- Input disable via PIN code
- Daylight-saving correction
- 1 h test

Contacts	U _c	Channels	Mounting width	
1 CO	230 V AC	1	2 MW	7LF4531-0
2 CO	230 V AC	2	2 MW	7LF4531-2

Further technical sp	ecifications	Astro
Standards		
Standards		EN 60730-1, -2-7; VDE 0631-1, -2-7
Approvals		UL File No. E301698
Supply		
Primary operating range		0.85 1.1 × U _c
Frequency range		50/60 Hz
Rated power dissipation P _v		2 VA
Channels		
Rated operational voltage U _e		250 V AC
Rated operational current I _e	At p.f. = 1	16 A
	At p.f. = 0.6	10 A
Contacts		
Minimum contact load		12 V / 100 mA
Electrical switching cycles	At p.f. = 1	100000
Mechanical switching cycles		10 million
Incandescent lamp load		8 A
Energy-saving lamp load		1000 W
Fluorescent lamp load	Parallel p.f. correction 70 µF	600 VA
	Uncorrected	2000 VA
Safety		
Different phases between operating mechanism and co	ontact	Permissible ²⁾
Rated impulse withstand vol	age U _{imp}	4 kV
Electrostatic discharge	Acc. to IEC 61000-4-2	>8.0 kV
EMC: Burst	Acc. to IEC 61000-4-4	>4.4 kV
EMC: Surge	Acc. to IEC 61000-4-5	>2.0 kV
Overvoltage category	Acc. to EN 61010-1	III
Function		
Clock errors per day	Typical	±0.1 s/day
Power reserve storage	Battery	5 years
Make and break cycles		1 s
Minimum switching sequence	es	1 s
Control input	Terminal S	Yes (with 1K clock)
Programs 1)		56 (2 × 28)
Program memory	Captive	Yes
Battery type		Li primary cell
Connections		
Terminals	± Screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	1.5 4 mm²
of main current path	Flexible, with end sleeve	Max. 2.5 mm ²
Environmental conditions		
Permissible ambient	For operation/	−20 +55 °C /
temperature	for storage	−20 +60 °C
Resistance to climate	Acc. to EN 60068-1	20/055/21
Degree of protection	Acc. to EN 60529	IP20, with connecte conductors
Safety class	Acc. to EN 61140	II
,		

¹⁾ A program consists of an ON time, an OFF time and assigned ON and OFF days or day blocks.

²⁾ The combination of line voltage (230 V) and SELV is not permissible in conjunction with a 2-channel time switch. This requirement is, however, admissible in the case of 1-channel time switch.

7LF4 digital time switches

Accessories

			Mini	Тор	Profi	Astro
Data keys						
	 For Profi and Astro digital time switches Programming at the PC (7LF4941-0 USB adapter and software required) Read-in of programs to the time switch Writing of programs from the time switch Transfer of programs From PC to time switch and vice versa From time switch to time switch 					
		Article No.				
		7LF4941-1	-	-		_
USB adapter and so	ftware					
	 For Profi and Astro digital time switches For the reading and writing of data keys at the PC Including programming software Including 7LF4941-1 data key for Profi and Astro Compatible with 7LF4940-1 data key (predecessor model) and 7LF4940-2 data key Can be connected via USB interface System requirements: Windows 7, Windows Vista, Windows 2000, Windows ME, Windows XP or Windows 98 Second Edition USB connection 40 MB free disk space 					
		Article No.				
		7LF4941-0	-	-	•	•
Holders for front pa	anel installation					
	 Universal application for devices from 1 MW 6 MW Cutout dimensions: Height 45^{+0.5} mm Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm 					
		Article No.				
		7LF9006				

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7LF5 mechanical time switches

Time switches without power reserve



Contacts	Mounting width			
With day disk				
1 NO	1 MW	7LF5300-1	-	-
1 CO	3 MW	-	7LF5300-5	-
	_	_	-	7LF5301-0
With week disk				
1 CO	3 MW	_	7LF5300-6	-

System overview, page 5/4

Further technical specific	cations	7LF5300-1	7LF5300-5	7LF5300-6	7LF5301-0
Standards					
Standards		EN 60730-1, -2-7, UL	917, UL 917, CSA C22.2	No. 14 and 177	
Approvals		VDE, UL file: E301698			
Supply					
Rated control supply voltage U _c		230 V AC			
Primary operating range	U _c 230 V AC	0.85 1.1 × U _c			
Rated frequency		50 Hz			
Frequency range		50 Hz			
Rated power dissipation P _v		1 VA			
Channels					
Rated operational voltage U _a		250 V AC			
Rated operational current I _e	At p.f. = 1	16 A			
nated operational current ie	At p.f. = 0.6	4 A			
Contacts	710 010				
Minimum contact load		4 V / 1 mA			
Electrical switching cycles	At p.f. = 1	100000			
Mechanical switching cycles	710 р.п. — 1	20 million			
Incandescent lamp load		5 A			
Fluorescent lamp load	Parallel p.f. correction 70 μF				
Truorescent lamp load	Uncorrected	1400 VA			
Safety	Oncorrected	1400 VA			
Different phases between operating		Permissible			
mechanism and contact		i emissible			
Electrical isolation, creepage	Operating mechanism	8 mm			
distances and clearances	Contact	6 mm			
Rated impulse withstand voltage U _{im}		4 kV			
Electrostatic discharge	Acc. to IEC 61000-4-2	>8.0 kV			
EMC: Burst	Acc. to IEC 61000-4-4	>4.4 kV			
EMC: Surge	Acc. to IEC 61000-4-5	>2.0 kV			
Overvoltage category	Acc. to EN 61010-1	III			
Function	7.cc. to 214 01010 1				
Switching accuracy		±5 min	±5 min	±30 min	±5 min
Clock errors			System-synchronized		System-synchronized
Make and break cycles		15 min	15 min	120 min	10 min
Minimum switching sequences		30 min	30 min	240 min	30 min
Connections		50 111111	50 111111	2-70 IIIII	50 111111
Terminals	± Screw (Pozidriv)	PZ 1			
Conductor cross-sections	Rigid	1.5 4 mm ²			
of main current path	Flexible, with end sleeve	Max. 2.5 mm ²			
or manifestre path		Max. 4 mm ²			
Environmental conditions	Flexible, without end sleeve	Max. 4 IIIII			
Environmental conditions Dermissible ambient temperature	For operation/for storage	10 /EE °C / 10	160°C		
Permissible ambient temperature	For operation/for storage	-10 +55 °C / −10	+00 C		
Resistance to climate	Acc. to EN 60068-1	10/055/21			
Degree of protection	Acc. to EN 60529	IP20, with connected	conductors		
Safety class	Acc. to EN 61140	II			

Accessories

Holders for front panel installation



- Universal application for devices from 1 MW ... 6 MW
- Cutout dimensions:
 Height 45^{+0.5} mm
 Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm

Article No. 7LF9006

System overview, page 5/4

1 CO

With week disk

7LF5 mechanical time switches

Time switches with power reserve

3 MW

3 MW

7LF5301-6

7LF5301-7

7LF5301-4

7LF5301-5

7LF5305-0

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Further technical specif	fications	7LF5301-1	7LF5301-4	7LF5301-5	7LF5301-6	7LF5301-7	7LF5305-0
Standards							
Standards		EN 60730-1, -2	7, UL 917, UL 9	17, CSA C22.2 N	lo. 14 and 177		
Approvals		VDE, UL file: E3	01698				
Supply							
Rated control supply voltage U _c		230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
Primary operating range		0.851.1×U _c	0.851.1×U _c	0.851.1×U _c	0.851.1×U _c	0.851.1×U _c	0.851.1×U
Rated frequency		50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Frequency range		50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated power dissipation P _v		1 VA	0.2 VA	0.2 VA	1 VA	1 VA	1 VA
Channels							
Rated operational voltage U _e		250 V AC					
Rated operational current I _e	At p.f. = 1	16 A					
	At p.f. = 0.6	4 A					
Contacts	710 010						
Minimum contact load		4 V / 1 mA					
Electrical switching cycles	At p.f. = 1	100000					
Mechanical switching cycles	, p.ii. = 1	20 million					
Incandescent lamp load		5 A					
Fluorescent lamp load	Parallel p.f. correction 70 μF						
ridorescent lamp load	Uncorrected	1400 VA					
Safety	Uncorrected	1400 VA					
Different phases between operating	24	Permissible					
mechanism and contact	ig	remissible					
Electrical isolation, creepage	Operating mechanism	8 mm					
distances and clearances	Contact	6 mm					
Rated impulse withstand voltage U	J _{imp}	4 kV					
Electrostatic discharge	Acc. to IEC 61000-4-2	>8.0 kV					
EMC: Burst	Acc. to IEC 61000-4-4	>4.4 kV					
EMC: Surge	Acc. to IEC 61000-4-5	>2.0 kV					
Overvoltage category	Acc. to EN 61010-1	III					
Function							
Switching accuracy		±5 min	±5 min	±30 min	±5 min	±30 min	±5 min
Clock errors		±2.5 s/day	±0.2 s/day	±60 s/day	±2.5 s/day	±2.5 s/day	±2.5 s/day
Power reserve storage		100 h	6 years	6 years	100 h	100 h	100 h
Make and break cycles		15 min	15 min	120 min	15 min	120 min	15 min
Minimum switching sequences		30 min	30 min	240 min	30 min	240 min	30 min
Battery type		NiMH cell		Li primary cell	NiMH cell	NiMH cell	NiMH cell
Minimum loading time		48 h	-	-	48 h	48 h	48 h
Service life of battery	At 20 °C	6 years	10 years	10 years	6 years	6 years	6 years
2 I I I I I I I I I I I I I I I I I I I	At 40 °C	5 years	5 years	5 years	5 years	5 years	5 years
Connections		5 years	5 years	J years	5 years	5 years	5 years
Terminals	± Screw (Pozidriv)	PZ 1					
Conductor cross-sections	Rigid	1.5 4 mm²					
of main current path	Flexible, with end sleeve	Max. 2.5 mm ²					
	Flexible, without end sleeve	Max. 4 mm ²					
Environmental conditions	rickible, without end sieeve	IVIGA, T IIIIII					
Permissible ambient temperature	Storage/operation	−10 +60 °C /	−10 +55 °C				
Resistance to climate	Acc. to EN 60068-1	10/055/21					
Degree of protection	Acc. to EN 60529		nected conducto	ors			
Safety class	Acc. to EN 61140	II	. I I I I I I I I I I I I I I I I I I I	-			
Juicty Class	ACC. TO LIVET 140	"					

Accessories

Holders for front panel installation



- Universal application for devices from 1 MW ... 6 MW
- Cutout dimensions:
 Height 45^{+0.5} mm
 Width 23 mm, 41 mm, 59 mm, 77 mm, 95 mm or 113 mm

Article No. 7LF9006

7LF6 timers for buildings new

	Standard stairwell lighting timers	Multi stairwell lighting timers
3-wire circuit	•	•
4-wire circuit	•	•
Zero crossing circuit	•	•
Operation	Resettable	Resettable
Mounting width		

Contacts	Warning of impending switch-off	Mounting width		
1 NO	-	1 MW	7LF6310	-
	Flickering	1 MW	-	7LF6311

Further technical specification	ons	7LF6310	7LF6311
Supply			
Rated operational current I _e	At p.f. = 1	16 A	
Rated operational voltage U _e		250 V AC	
Rated control supply voltage U _c		230 V AC	
Frequency range		50/60 Hz	
Rated power dissipation P _v		1 W	
Rated impulse withstand voltage		4 kV	
Contacts			
Channels		1	1
Max. glow lamp load		25 mA	50 mA
Separate multi-voltage input		-	8 230 V AC/DC
Switching capacity	Inductive p.f. = 0.6	2000 VA	2000 VA
Incandescent lamp load	Max.	3680 W	3680 W
Fluorescent lamp load	Series p.f. correction	2000 VA	2000 VA
	Parallel p.f. correction at 70 μF	1000 W	1000 W
Compact fluorescent lamp load		1000 W	1000 W
LED		1000 W	1000 W
Electronic transformers		2000 VA	2000 VA
Conventional transformers		2000 VA	2000 VA
Function			
Setting range		0.5 10 min	0.5 12 min
Manual switches		Yes	Yes
Programs		-	7 1)
Environmental conditions			
Permissible ambient temperature	For operation	−20 +55 °C	
	For storage	−20 +60 °C	
Degree of protection	Installed	IP30	
Pollution degree		2	

 $^{^{\}rm 1)}\,7$ functions, can be selected using selector switch on the device

Delay timers

5TT3 timers for industrial applications

	Programmable for:	 Response delay Passing make contact function Pulse generator, delayed Clock generator, starting with impulse OFF-delay Pulse converter Passing break contact function Response delay/OFF-delay 	_
Contacts	Mounting width		00
Contacts	Mounting width		
1 CO	1 MW	5TT3185	5TT3181

Multifunction timers

Further technical specificatio	ns	5TT3185	5TT3181
Standards			
Standards		EN 60255; DIN VDE 0435-110	
Supply			
Rated operational current I _e		4 A	8 A
Rated operational voltage U _e		250 V AC	250 V AC
Rated control supply voltage U _c		12 240 V AC	220 240 V AC
		12 240 V DC	-
Primary operating range	U _c 230 V AC, 50/60 Hz	0.8 1.1 × U _c	0.8 1.1 × U _c
Rated frequency f _n		45 400 Hz	50/60 Hz
Rated power dissipation P_{v}		Approx. 1.5 VA	Approx. 5 VA
Contacts			
Contact gap		μm contact	μm contact
Minimum contact load		10 V / 300 mA	10 V / 300 mA
Electrical service life	Switching cycles	1.5 × 10 ⁵	-
	At AC-15	-	1.5 × 10 ⁵
Safety			
Rated impulse withstand voltage U _{imp}	Input / output	>4 kV	
Function			
Setting range		1 s 300 h	1 s 300 h
Recovery time		15 80 ms	Approx. 40 ms
Connections			
Terminals	± Screw (Pozidriv)	PZ 2	
Conductor cross-sections	Rigid	Max. 2× 2.5 mm ²	
of main current path	Flexible, with end sleeve	Min. 2× 1.5 mm ²	
Environmental conditions			
Permissible ambient temperature		−40 +60 °C	
Resistance to climate	Acc. to EN 60068-1	40/60/4	

System overview, page 5/4



electrical and electronic equipment.
Even brief transients in power supply lines or between electrical lines and other conductive parts (e.g. grounded metallic parts, ground) are sufficient to cause such damage. The damage patterns of destroyed lines, circuit boards or switchgear demonstrate this. Such damage can be prevented employing suitable overvoltage

Reliably protected by Siemens lightning and surge arresters!

protection means.

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Overvoltage Protection Devices

	All the information you need	
	5SD 5SD	074 lightning arresters, type 1 074 combination surge arresters, type 1 + type 2 074 combination surge arresters, type 1 / type 2
Maria Consession 1	5SC	074 surge arresters, type 2 074 surge arresters, type 2 074 surge arresters, type 3
A CONTRACTOR OF THE PARTY OF TH		

A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about overvoltage protection devices, please visit our website

www.siemens.com/overvoltage-protection



👤 Contact persons in your region

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The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

• Technology primer – Overvoltage protection devices (109756965)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

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... can be found in our online services

Commissioning + operation



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/lowvoltage/cax



Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

• Configuration manual Overvoltage protection devices (45315289)



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Protection concept (WT-LVBPC)



Technical overview of overvoltage protection devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on overvoltage protection devices www.siemens.com/lowvoltage/product-support (109769084)

System overview

Basic units



Lightning arresters, type 1



Combination surge arresters, Combination surge type 1 + type 2



arresters, type 1 / type 2



Surge arresters, type 2 (standard design)



Surge arresters, type 3

Replacement plugs







N-PE

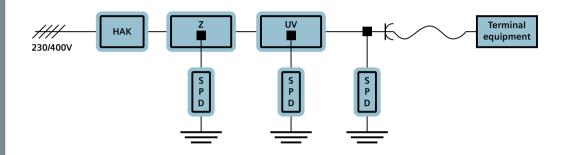
L-N, L-PEN (type 1)

L-PEN



Installation locations for surge protection devices (SPDs)

Installation Installation Installation location 1 location 2 location 3 type 1 and/or type 2 or type 2 type 3 location 3



HAK: Main terminal box

 $\ensuremath{\mathsf{Z/HV}}\xspace$ In or close to the central meter system / main distribution board

UV: Subdistribution board

Installation location 1 must be as close as possible to the supply point for the electrical system, so that the downstream installations are protected. The SPDs at installation locations 2 and 3 shall not be used without SPDs at installation location 1, and they must be coordinated with these SPDs (i.e. SPDs all from the same manufacturer).

5SD74 lightning arresters, type 1

 $\begin{array}{c} \text{Protection paths} \\ \text{Rated voltage U}_{n} \\ \text{Maximum continuous voltage U}_{c} \end{array}$

For TN-C and IT systems	For TN-C systems	For TN-S and TT systems	
L-PE	L-PEN	L-N, L-PE and N-PE	L-N, L-PE and N-PE
690 V AC	240/415 V AC	240 V AC	240/415 V AC
800 V AC	350 V AC	350 V AC	350 V AC
	036	616 616	

Circuit	Mounting width				
With remote signal	ing				
1 + 0	_1)	5SD7411-2	-	-	-
1 + 1	4 MW	-	-	5SD7412-1	-
3 + 0	6 MW	-	5SD7413-1	-	-
3 + 1	8 MW	-	-	_	5SD7414-1

¹⁾ No modular installation device.

Further technical specificat	tions	5SD7411-2	5SD7412-1	5SD7413-1	5SD7414-1
Standards					
Standards		IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11
Approvals		-	KEMA, UL/cUL	KEMA, UL/cUL	KEMA, UL/cUL
Voltage					
Protection level U _p	L-N and L-PEN	≤4.50 kV	≤1.50 kV	≤1.50 kV	≤1.50 kV
	L-PE	-	≤2.50 kV	_	≤2.50 kV
	N-PE	-	≤1.50 kV	_	≤1.50 kV
Current					
Lightning impulse current I _{imp}	L-N and L-PEN, 1P/3P	35 kA	25 kA	25/75 kA	25/75 kA
(10/350 μs)	N-PE	-	100 kA	_	100 kA
Rated discharge surge current I _n	L-N and L-PEN, 1P/3P	35 kA	25 kA	25/75 kA	25/75 kA
(8/20 µs)	N-PE	-	100 kA	_	100 kA
Follow current discharge capacity I _{fi}	L-N and L-PEN for 264/350 V	-	50/25 kA	50/25 kA	50/25 kA
(AC)	N-PE	-	100 A	_	100 A
Function					
Response time t _A	L-N and L-PEN	≤100 ns	≤100 ns	≤100 ns	≤100 ns
	L-N and N-PE	-	≤100 ns	_	≤100 ns
Connections					
Conductor cross-section	Finely stranded	16 50 mm ²	2.5 25 mm ²	2.5 25 mm ²	2.5 25 mm ²
	Solid	16 50 mm ²	2.5 35 mm ²	2.5 35 mm ²	2.5 35 mm ²
Protection devices					
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	400 A	315 A	315 A	315 A
	For V wiring (gL/gG)	125 A	125 A	125 A	125 A
Short-circuit withstand current	With max. back-up fuse	50 kA	50 kA	50 kA	50 kA
Environmental conditions					
Degree of protection		IP20, with conne	cted conductors		
Temperature range		−40 +80 °C			

Accessories

Replacement plugs					
	Protection paths	Basic units	Article No.		
Manage State of the State of th	N-PE	5SD7412-1 and 5SD7414-1	5SD7418-0		
Manage Ma	L-N and L-PEN	For 5SD7412-1, 5SD7413-1 and 5SD7414-1	5SD7418-1		

System overview, page 6/4 Siemens LV 10 · 10/2019 6/7

5SD74 combination surge arresters, type 1 + type 2

For TN-C systems
Protection paths
Rated voltage U_n

Maximum continuous voltage U_c

For TN-S and TT systems
L-P, L-PE and N-PE
L-N, L-PE and N-PE
240 V AC
240 V AC
350 V AC
350 V AC



Circuit	Mounting width			
With remote signali	ng			
1 + 1	4 MW	-	5SD7442-1	-
3+0	6 MW	5SD7443-1	-	-
3 + 1	8 MW	-	-	5SD7444-1

Further technical specificat	tions	5SD7442-1	5SD7443-1	5SD7444-1			
Standards							
Standards		IEC 61643-11; EN	IEC 61643-11; EN 61643-11				
Approvals		KEMA, UL/cUL					
Voltage							
Protection level U _p	L-N and L-PEN	≤1.50 kV	≤1.50 kV	≤1.50 kV			
	L-PE	≤2.20 kV	-	≤2.20 kV			
	N-PE	≤1.50 kV	-	≤1.50 kV			
Current							
Lightning impulse current I _{imp}	L-N and L-PEN	25 kA	25 kA	25 kA			
(10/350 μs)	N-PE	100 kA	_	100 kA			
Rated discharge surge current I _n	L-N and L-PEN	25 kA	25 kA	25 kA			
(8/20 μs)	N-PE	100 kA	_	100 kA			
Follow current discharge capacity I _{fi}	L-N and L-PEN	25 kA	25 kA	25 kA			
(AC)	N-PE	100 A	-	100 A			
Function							
Response time t _A	L-N and L-PEN	≤25 ns	≤25 ns	≤25 ns			
	L-N and N-PE	≤100 ns	-	≤100 ns			
Connections							
Conductor cross-section	Finely stranded	2.5 25 mm ²					
	Solid	2.5 35 mm ²					
Protection devices							
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	315 A					
	For V wiring (gL/gG)	125 A					
Short-circuit withstand current	With max. back-up fuse	25 kA					
Environmental conditions							
Degree of protection		IP20, with conne	cted conductors				
Temperature range		−40 +80 °C					
Display							
Visual function/fault indication		Yes					

Accessories

Replacement plugs										
	Protection paths	Туре	Basic units	Article No.						
To the state of th	N-PE	-	5SD7442-1 and 5SD7444-1	5SD7418-0						
Manage State of the State of th	L-N and L-PEN	1	5SD7442-1, 5SD7443-1 and 5SD7444-1	5SD7448-1						
The same of the sa		2	5SD7442-1, 5SD7443-1 and 5SD7444-1	5SD7428-1						

System overview, page 6/4 Siemens LV 10 · 10/2019 6/9

5SD74 combination surge arresters, type 1 / type 2

For TN-C and For TN-C systems For TN-S and TT systems For photovoltaic systems IT systems Protection paths L-PE L-PEN L-N, L-PE and N-PE L-N, L-PE and N-PE (L+) - (L-)Rated voltage U_n 690 V AC 240/415 V AC 240/415 V AC Maximum continuous voltage U_c 800 V AC 335 V AC 335 V AC 335 V AC 1000 V DC

Circuit	Mounting width					Plug-in				
With remote signali	With remote signaling									
1 + 0	_1)	5SD7411-2	-	-	-	-				
3 + 0	3 MW	-	5SD7413-3	-	-					
3 + 1	4 MW	-	-	-	5SD7414-3	-				
Without remote sig	naling									
1 + 1	2 MW	-	-	5SD7412-2	-	-				
3 + 0	3 MW	-	5SD7413-2	-	-	5SD7483-6				
3 + 1	4 MW	-	-	-	5SD7414-2	-				

¹⁾ No modular installation device.

Further technical specifica	tions	5SD7411-2	5SD7412-2	5SD7413-2 5SD7413-3	5SD7414-2 5SD7414-3	5SD7483-6
Standards						
Standards		IEC 61643-11	IEC 61643-11	IEC 61643-11	IEC 61643-11	EN 50539
Approvals		_	KEMA	KEMA	KEMA	KEMA
Voltage						
Protection level U _p	L-N and L-PEN	≤4.50 kV	≤1.20 kV	≤1.20 kV	≤1.20 kV	≤3.50 kV
	L-PE	_	_	-	≤2.0 kV	-
	N-PE	_	≤1.70 kV	_	≤1.70 kV	_
Current						
Lightning impulse current I _{imp}	L-N and L-PEN	35 kA	12.5 kA	12.5 kA	12.5 kA	≤5 kA
(10/350 µs)	N-PE	_	50 kA	-	50 kA	-
Rated discharge surge current I _n	L-N and L-PEN	35 kA	12.5 kA	12.5 kA	12.5 kA	15 kA
(8/20 μs)	N-PE	_	50 kA	_	_	_
Max. discharge surge current I _{max.}	L-N	100 kA	12.5 kA	50 kA	50 kA	40 kA
(8/20 μs)	N-PE	_	50 kA	-	50 kA	-
Function						
Response time t _A	L-N and L-PEN	<100 ns	≤25 ns	≤25 ns	≤25 ns	≤25 ns
	L-N and N-PE	_	≤100 ns	_	≤100 ns	≤25 ns
Connections						
Conductor cross-section	Finely stranded	16 50 mm ²	1.5 25 mm ²			
	Solid	16 50 mm ²	1.5 35 mm ²			
Protection devices						
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	400 A	160 A	160 A	160 A	-
	For V wiring (gL/gG)	125 A	80 A	80 A	80 A	-
Short-circuit withstand current	With max. back-up fuse	50 kA	25 kA	25 kA	25 kA	_
Environmental conditions						
Degree of protection		IP20, with conn	ected conductors			
Temperature range		-40 +80 °C				

Accessories

Replacement plugs									
	Protection paths	Туре	Basic units	Article No.					
200	N-PE	-	5SD7412-2, 5SD7412-3, 5SD7414-2 and 5SD7414-3	5SD7418-2					
Marines Marines To Marines To Marines	L-N and L-PEN	1	5SD7412-2, 5SD7412-3, 5SD7413-2, 5SD7413-3, 5SD7414-2 and 5SD7414-3	5SD7418-3					
To construct the construction of the construct	L-PE (PV)	2	5SD7483-6	5SD7498-3					

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5SD74 surge arresters, type 2

Standard design

	For TN and TT	systems	For TN-C and IT systems	For TN-C systems	For IT systems	;	For TN-S and TT systems
Protection paths	N-PE	L-PEN and L-N	L-PEN and L-N	L-PEN	L-PEN and L-PE	L-PEN and L-PE	L-N, L-PE and N-PE
Rated voltage U _n	240/415 V AC	240/415 V AC	400/690 V AC	240/415 V AC	400/690 V AC	554/960 V AC	240/415 V AC
Maximum continuous voltage U _c	260 V AC	350 V AC	800 V AC	350 V AC	580 V AC	760 V AC	350 V AC (L-N, L-PE) 260 V AC (N-PE)
		12					

Circuit	Mounting width							
With remote s	ignaling							
1 + 0	1 MW	-	5SD7461-1	_	_	-	-	-
	2 MW	-	_	5SD7481-1	-	-	-	-
3 + 0	3 MW	_	-	-	5SD7463-1	5SD7473-1	5SD7483-5	-
3 + 1	4 MW	-	_	-	-	-	-	5SD7464-1
Without remo	te signaling							
1 + 0	1 MW	5SD7481-0	5SD7461-0	_	_	-	-	-
3 + 0	3 MW	_	-	-	5SD7463-0	-	-	-
3 + 1	4 MW	_	_	-	_	_	_	5SD7464-0

Further technical specifi	cations	5SD7481-0	5SD7461-0 5SD7461-1	5SD7481-1		5SD7464-0 5SD7464-1	5SD7473-1	5SD7483-5
Standards								
Standards		IEC 61643-11; EN 61643-11						
Approvals		KEMA	KEMA	KEMA	KEMA	KEMA	-	KEMA, UL/cUL
Voltage								
Protection level U _p	L-N and L-PEN	-	≤1.50 kV	≤5 kV	≤1.50 kV	≤1.60 kV	≤2.50 kV	≤2.90 kV
	L-PE	-	-	-	_	≤1.90 kV	-	-
	N-PE	≤1.50 kV	_	-	-	≤1.50 kV	-	-
Current								
Rated discharge surge current I _n	L-N and L-PEN	-	20 kA	15 kA	20 kA	20 kA	15 kA	15 kA
(8/20 μs)	N-PE	20 kA	_	_	_	20 kA	_	_
Max. discharge surge current $I_{\text{max.}}$	L-N	-	40 kA	30 kA	40 kA	40 kA	30 kA	30 kA
(8/20 μs)	N-PE	40 kA	-	-	-	40 kA	_	-
Function								
Response time t _A	L-N and L-PEN	-	≤25 ns	≤100 ns	≤25 ns	≤25 ns	≤25 ns	≤25 ns
	L-N and N-PE	≤100 ns	-	-	-	≤100 ns	_	-
Connections								
Conductor cross-section	Finely stranded	1.5 25 mm	1 ²					
	Solid	1.5 35 mm	1 ²					
Protection devices								
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	-	125 A	100 A	125 A	125 A	125 A	100 A
	For V wiring (gL/gG)	-	_	80 A				
Short-circuit withstand current	With max. back-up fuse	25 kA						
Environmental conditions								
Degree of protection		IP20, with connected conductors						
Temperature range		-40 +80 °C						

Accessories

Replacement plug	s		
	Protection paths	Basic units	Article No.
27-	N-PE	5SD7481-0, 5SD7464-0 and 5SD7464-1	5SD7488-0
TO THE STATE OF TH	L-N and L-PEN	5SD7461-0, 5SD7461-1, 5SD7463-0, 5SD7463-1, 5SD7464-0 and 5SD7464-1	5SD7468-1
Manage State of State	L-PEN	5SD7481-1 and 5SD7483-5	5SD7488-2
Saturacy,		5SD7481-1	5SD7488-4

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5SD74 surge arresters, type 2

Narrow design

Protection paths Rated voltage U_n Rated arrester voltage U_c ; L-N, N-PE, L-(PE)N Rated arrester voltage U_c ; N-PE

	For TN-S and TT systems	
S	L-N and N-PE	L-N and N-PE
n	240 V AC	240/415 V AC
V	350 V AC	350 V AC
E	264 V AC	264 V AC

Circuit	Mounting width	Rated discharge (8/20 µs)	Rated discharge surge current I _n (8/20 µs)		
		L-N or L-(PE)N	N-PE		
With remote sig	gnaling				
1 + 1	24 mm (1 1/3 MW)	20 kA	20 kA	5SD7422-1	-
3 + 1	48 mm (2 2/3 MW)	20 kA	20 kA	-	5SD7424-1
		20 kA	40 kA	-	-
Without remote	e signaling				
1 + 1	24 mm (1 1/3 MW)	20 kA	20 kA	5SD7422-0	-
3 + 1	3 + 1 48 mm (2 2/3 MW)		20 kA	-	5SD7424-0
		20 kA	40 kA	-	-

Further technical specifications		5SD7422-0 5SD7422-1	5SD7424-0 5SD7424-1
Standards			
Standards		IEC 61643-11, EN 61643-11	IEC 61643-11, EN 61643-11
Approvals		KEMA/UL/cUL	KEMA/UL/cUL
Voltage			
Protection level U _p	L-N and L-PEN	≤1.50 kV	≤1.50 kV
	L-PE	≤1.90 kV	≤1.90 kV
	N-PE	≤1.50 kV	≤1.50 kV
Current			
Rated discharge surge current I_n (8/20 μ s)	L-N and L-PEN	20 kA	20 kA
	N-PE	20 kA	20 kA
Max. discharge surge current I _{max.} (8/20 μs)	L-N	40 kA	40 kA
	N-PE	40 kA	40 kA
Function			
Response time t _A	L-N and L-PEN	≤25 ns	
	L-N and N-PE	≤100 ns	
Connections			
Conductor cross-section	Finely stranded	1.5 25 mm ²	
	Solid	1.5 35 mm ²	
Protection devices			
Max. back-up fuse acc. to IEC 61643-1	For stub wiring (gL/gG)	315 A	
	For V wiring (gL/gG)	63 A	
Short-circuit withstand current	With max. back-up fuse	25 kA	
Environmental conditions			
Degree of protection		IP20, with connected conduct	ors
Temperature range		−40 +80 °C	

System overview, page 6/4

Accessories

Replacement plug	placement plugs		
	Protection paths	Basic units	Article No.
Mana Mana Mana Mana Mana Mana Mana Mana	N-PE	5SD7422-0, 5SD7422-1, 5SD7424-0 and 5SD7424-1	5SD7428-0
SCORE STATE OF THE	L-N and L-PEN	5SD7422-0, 5SD7422-1, 5SD7424-0 and 5SD7424-1	5SD7428-1

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5SD74 surge arresters, type 3

 For TN-S and TT systems

 Protection paths
 L-N, L-PE, N-PE, (L+) − (L−) and (L+/L−) − PE and (L+/L−) − PE and (L+/L−) − PE and (L+/L−) − PE
 L-N, L-PE, N-PE, (L+) − (L−) and (L+/L−) − PE and (L+/L−) − PE
 L-N, L-PE, N-PE, (L+) − (L−) and (L+/L−) − PE and (L+/L−) − PE

 Rated voltage U_n
 24 V AC
 120 V AC
 230 V AC

 Rated arrester voltage U_c
 34 V AC
 150 V AC
 264 V AC

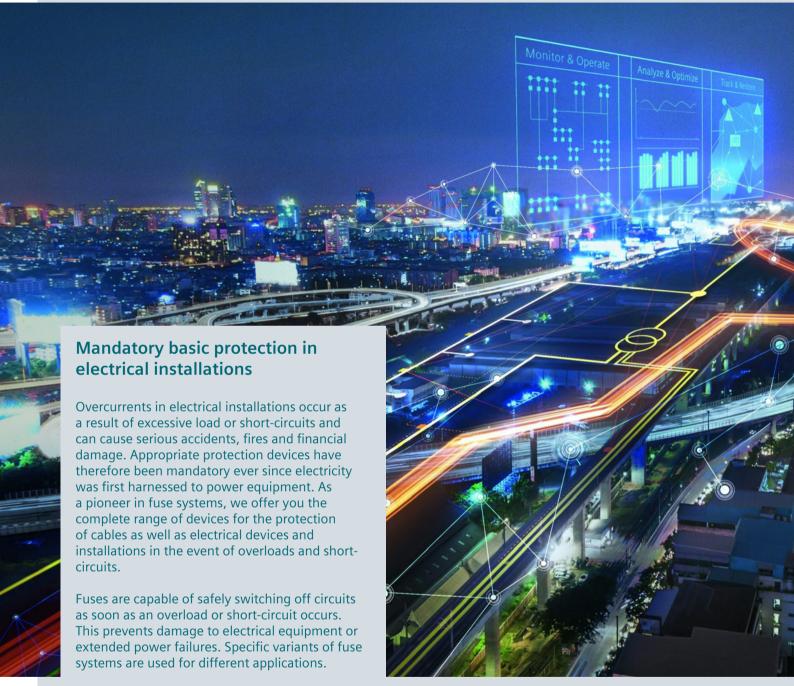
Circuit	Mounting width			
With remote signaling				
1 + 0	1 MW	5SD7432-4	5SD7432-2	5SD7432-1

Further technical spec	cifications	5SD7432-4	5SD7432-2	5SD7432-1
Standards				
Standards		IEC 61643-11; EN 61643-11	IEC 61643-11; EN 61643-11	IEC 61643-11; EN 61643-11
Approvals		KEMA/UL/cUL	KEMA/UL/cUL	KEMA/UL/cUL
Voltage				
Protection level U _p	L-N, L-PE and N-PE	≤250 <i>1</i> ≤650 V	≤850/≤950 V	≤1350/≤1500 V
Current				
Rated load current I _L (at 30 °C)		26 A	26 A	26 A
Rated discharge surge current I _n	(8/20 μs)	1 kA	3 kA	3 kA
Combined surge U _{open collector}		2 kV	6 kV	6 kV
Function				
Response time t _A		≤100 ns		
Connections				
Conductor cross-section	Finely stranded	0.2 2.5 mm ²		
	Solid	0.2 4 mm ²		
Protection devices				
Required back-up fuse, max.	(gG/B/C)	25 A		
Environmental conditions				
Degree of protection		IP20, with connected	conductors	
Temperature range		−40 +80 °C		
Display				
Visual function/fault indication		Yes		

System overview, page 6/4

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Signers LV 10 ⋅ 10/2019 6/17



Among other things, our fuses are used for protecting cables and lines, switching devices and semiconductors as well as in photovoltaics and wind power.

Fuse Systems



tem overview	
rview of fuse systems	
e holders and bases	
	Overview
	MINIZED fuse switch disconnectors
	MINIZED switch disconnectors
	NEOZED bus-mounting switch disconnectors
	NEOZED fuse bases
	DIAZED fuse bases
	Bus-mounting bases for 8US busbar systems
	Photovoltaic cumulative fuse bases
	LV HRC fuse bases
	Cylindrical fuse holders
	SITOR fuse bases and holders
	Photovoltaic cylindrical fuse holders
	Class J fuse holders
	Class CC fuse holders
e links	
	Overview of fuse links
	NEOZED fuse links
	DIAZED fuse links
	SILIZED fuse links
	Photovoltaic cumulative fuses
	LV HRC fuse links
	Cylindrical fuse links
	SITOR LV HRC semiconductor fuses
	SITOR cylindrical semiconductor fuses
	Photovoltaic cylindrical fuse links
	Class CC fuse links
essories	
	Busbars
	LV HRC signal detectors, electronic fuse monitoring

A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

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- Planning manual Planning with SIVACON 8PS (109478425)



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Technical overview of fuse systems



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System overview

Fuse holders and bases

IEC fuse holders and bases







DIAZED





MINIZED NEOZED

Bus-mounting bases for busbars

Photovoltaic cumulative fuses

IEC/UL fuse holders and bases











LV HRC fuses

Cylindrical

SITOR LV HRC fuses

SITOR cylindrical

Photovoltaic cylindrical

UL fuse holders and bases





Class CC

Class J

Accessories for fuse holders and bases



















Screw caps

Adapter sleeves

Isolating blades

LV HRC signal detectors

Busbars and accessories











can be cut

Terminals

Touch protection

End caps

Fuse links



IEC/UL fuse links



UL fuse links



Class CC

Overview of fuse systems according to IEC

Fuse links Standard IEC 2...100 A 2...100 A Rated current In 400 V 500...750 V Voltage U_n (AC) Voltage U_n (DC) 250 V 500...750 V Design / application NEOZED / SILIZED DIAZED/SILIZED Selection Cables and lines, general (gG) Motor protection (aM) according to Power semiconductor (aR, gR, gS) protection task Photovoltaic protection (gPV) Battery protection (aR, gR, gBAT) 5SA, 5SB, 5SC, 5SD 5SE More information See page 7/33 See page 7/32 See page 7/34 See page 7/34

Fuse holders and bases

i	_								•						
	Н	O	r	n	r).	te	Ct	10	OI	n	ta	S	ks	

Overview, see page 7/8

Fuse bases

Floor fixation	Standard mounting rail	Busbar	Туре	Stand- ard	More information		
_		•	5SG	IEC	See page 7/12	•	_
-			5SF	IEC	See page 7/18	_	•
	_	_	3NH	IEC/UL	See page 7/22	_	_
	_	_	3NH7	IEC	See page 7/22	_	_
-			3NW7	IEC/UL	See page 7/24	_	_
-		_	3NC	IEC/UL	See page 7/25	_	_
_		_	3NW74	IEC	See page 7/26	_	_

For protection and switching tasks

Overview, see page 8/62, 8/96

	Floor fixation	Standard mounting rail	Busbar	Туре	Stand- ard	More information		
Fuse switch disconnectors		•		3NP1	IEC/UL	See page 8/62	-	_
		_		3NP5	IEC/UL	See page 8/74	_	_
	_			5SG7	IEC	See page 8/90		_
	_	-	•	3NJ4	IEC	See page 8/78	_	-
Switch disconnector with fuse			-	3KF LV HRC	IEC	See page 8/96	_	_
			_	3KF SITOR	IEC/UL	See page 8/96	_	_
Maille Day	-	_		3NJ62	IEC	See page 8/112	_	-

Overview, see page 7/30 IEC IEC IEC/UL IEC/UL IEC UL 1...125 A 2...1250 A 0.5...100 A 2...2400 A 2...630 A 0.5 ...30 A 400...690 V 400...690 V 500...2500 V 600...1500 V 600 V 250...400 V 440...3000 V 250...1000 V 1000...1500 V 150 ... 300 V LV HRC Cylindrical SITOR LV HRC SITOR cylindrical Photovoltaic Class CC 3NA, 3ND 3NW6, 3NW8 3NE, 3NC 3NC10 3NE..., 3NW... 3NW1, 3NW2, 3NW3 See page 7/36 See page 7/41 See page 7/42 See page 7/59 See page 7/35 See page 7/65 See page 7/64 (■)

Overview of fuse holders, bases and D0 fuse switching devices

IEC

							IEC				
							90 a			000	
20.1.1.1			MINIZED switch discon- nectors	MINIZED fuse switch discon- nectors	NEOZ	ED fuse	bases	NEOZED comfort bases	NEOZED fuse bases	DIAZED fuse bases	
Basic data Size			D02	D01	D01	D02	D03	D01, D02	D01, D02	NDz, DII, DIII	
Variant			5SG71	5SG76		5SG16 5SG56	5SG18	5SG1301 5SG1701 5SG5301 5SG5701	5SG1302 5SG1702 5SG5302 5SG5702	5SF	
Standards											
Standards			DIN VDE 0638; EN 60947-3 (VDE 0660-107) EC/EN 60947-3	DIN VDE 0638; EN 60947-3 (VDE 0660-107) EC/EN 60947-3		C 60269 VDE 063		IEC 60269-3; DIN VDE 0636-3	IEC 60269-3; DIN VDE 0636-3	IEC 60269-3; DIN VDE 0635; DIN VDE 0636-3; CEE 16	
Approvals			-	-		-		-	-	-	
Approvals			-	-		-		-	-	-	
Technical specificatio											
Rated voltage	Un	V AC	230/400, 240/415	230/400, 240/415	400	400	400	-	_	500, 690, 750	
	U _n acc. to UL	V AC	-	-	_	_	_	_	_	-	
Rated insulation voltag	е	V AC	500	690	-	-	-	-	-	-	
Short-circuit strength	1	kA AC	50	50	50	50	50	50	50	50	
Rated current	I _n acc. to UL/CSA	A A	63	16 _	16 –	63	100	16/63 –	16/63	2 100	
Rated impulse withstar		kV AC	6	6		_	_	_	_	_	
Utilization category	Acc. to VDE 0638	A	AC-22	AC-22	_	_	_	_	_	_	
	Acc. to EN 60947-3	Α	AC-22 B, AC-23 B (35A)	AC-22 A	-	-	-	-	-	-	
Technical specificatio											
Rated voltage	U _n	V DC	65 (1P), 130 (2P)	48 (1P), 110 (2P)	250	250	250	-	-	500, 600, 750	
	U _n acc. to UL	V DC	-	-	-	-	-	-	-	-	
Short-circuit strength		kA DC	_	-	8	8	8	8	8	-	
Utilization category	Acc. to EN 60947-3	Α	DC-22 B	-	-	-	-	-	_	-	
Further technical sp	ecifications										
Overvoltage category			IV	IV		-		-	-	III; II (DIAZED fuse bases made of molded plastic for use at 690 V AC / 600 V DC)	
Max. power dissipation (conductor cross-section		W	-	-		-		=	-	-	
Pollution degree			-	-		-		-	-	-	

¹⁾ Extended rated voltage up to 1000 V (except LV HRC bus-mounting bases).





Overview of fuse holders, bases and D0 fuse switching devices

IEC/UL





			(a)*						• • •			
			ı			se base ounting	es, J bases		Су	lindrical fuse hold	ers	
Basic data												
Size			000/00	0	1	2	3	4	10 × 38 mm	14 × 51 mm	22 × 58 mm	
Variant			-	-	-	-	-	_	3NC10	3NC14	3NC22	
Standards												
Standards			IEC 60269-1, -2; EN 60269-1; DIN VDE 0636-2, UL 4248-1 (only downstream from the branch protection)						UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3	UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3	UL 4248-1; CSA C22.2; IEC 60269-2, IEC 60947-3	
Approvals			KEMA, UL File No. E171267-IZLT2				2	UL 4248-1; UL File No. E171267; CSA C22.2 No. 39-M				
Approvals					-	-			(l) , (S	4 , 6	₩, ®	
Technical specificati	ons AC											
Rated voltage	Un	V AC	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690 ¹⁾	690	690	690	690	
_	U _n acc. to UL	V AC	-	-	-	-	-	-	600	600	600	
Rated insulation volta	ige	V AC	-	-	-	-	-	-	-	-	-	
Short-circuit strength		kA AC	-	-	-	-	-	-	50	50 (100 at 400 V)	50 (100 at 500 V)	
Rated current	I _n	А	160	160	250	400	630	1250	32	50	100	
	I _n acc. to UL/CSA	Α	-	-	-	-	-	-	30	50 (UL), 40 (CSA)	80	
Rated impulse withsta	and voltage	kV AC	-	-	-	-	-	-	6	6	6	
Utilization category	Acc. to VDE 0638	Α	-	-	-	-	-	-	-	-	-	
	Acc. to EN 60947-3	Α	-	-	-	-	-	-	AC-22B (400 V)	AC-22B (400 V)	AC-20B (690 V)	
Technical specificati	ions DC											
Rated voltage	U _n	V DC	250	440	440	440	440	440		800		
	U _n acc. to UL	V DC	-	-	-	-	-	-	-	-	-	
Short-circuit strength		kA DC	25	25	25	25	25	25	-	-	-	
Utilization category	Acc. to EN 60947-3	Α	-	-	-	-	-	-	-	-	-	
Further technical s	pecifications											
Overvoltage category	,		-	-	-	-	-	-	-	-	-	
	Max. power dissipation of fuse links W (conductor cross-section used)			25	32	45	60	90	3 (6 mm²), 4.3 (10 mm²)	5 (10 mm²), 6.5 (25 mm²)	9.5 (35 mm²), 11 (50 mm²)	
Pollution degree			-	-	-	-	-	-	2	2	2	

¹⁾ Extended rated voltage up to 1000 V (except LV HRC bus-mounting bases).

IEC / UL



UL





14(1)	N.F	_								
Cylindrical	fuse holders	Photov cylindrical fu		Class CC fuse holders			Class J fu	se holders	3	
10×38 mm	14×51 mm	10 x 38 mm	10 x 85 mm	-				-		
3NW70 3NW7031	3NW71	3NW704	3NW764	3NW75.3-0HG 3NW7531HG				3NW75.3-6HG, 3NW75.3-7HG, 3NW7431-7HG, 3NW7431-8HG		
IEC 60269-1, -2, -3; NF C 60-200, NF C 63-210, -211; NBN C 63269-2-1; CEI 32-4, -12; UL 4248-1		IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18	IEC 60269, IEC 60269-2, IEC 60947, UL 4248-1, -18	UL 4248-1; CSA C22.2	UL 4248-1 Ed.1, UL			, UL 4248-8	3 Ed.1	
UL File No	. E171267	(File No. E469670, CCC) (variants without signal detector)	91 (E355487)	UL 4248-1; UL File No. E171267; CSA C22.2			CSA File N	. E171267; o. 233322; . 6225-01		
1R ® , 1R		-	-	-	₩, ®	®, ®	c 91 us	c Al us	®, © Busbar device: c 91 us	
690	690	-	-	-	-	-	-	-	-	
600	700	-	-	600	600	600	600	600	600	
_	-	-	-	-	-	-	-	-	-	
100	100	-	-	200	200	200	200	200	200	
32	50	30	32	30	30	60	100	200	400	
-	-	-	-	-	-			-	-	
-	-	6	-	6		No information as the devices are only tested and certified to UL/CSA and not to IEC				
_	-	-	-	-				_		
	20B vithout load)	-	-	AC-20B (switching without load)		(AC- switching v	20B vithout load	d)	
-	-	1000	1500	300	-	-	-	-	-	
-	-	-	-	-	600	600	600	600	600	
-	-	-	-	-	-	-	-	-	-	
AC-20B (switching without load)		-	-	DC-20B (switching without load)		(DC- (switching v	·20B vithout load	d)	
-		II	-	II			ation as the rtified to UL		e only tested ot to IEC	
-	-	4	6	3 (6 mm²), 4.3 (10 mm²)				-		
-		- 2 -		2	No information as the devices are only tested and certified to UL/CSA and not to IEC					

MINIZED fuse switch disconnectors

	Number of poles	1P	1P+N	2P	3P	3P+N
			D D			0 0 0 0
Size	Rated current					
D01	2 6 A	5SG7611-0KK06	-	-	5SG7631-0KK06	-
	10 A	5SG7611-0KK10	-	-	5SG7631-0KK10	_
	16 A	5SG7611-0KK16	5SG7651-0KK16	5SG7621-0KK16	5SG7631-0KK16	5SG7661-0KK16

MINIZED switch disconnectors

	Number of poles	1P	1P+N	2P	3P	3P+N
Size	Rated current					
D02	25 A	-	-	-	5SG7133-8BA25 1)	-
	35 A	-	-	-	5SG7133-8BA35 1)	-
	50 A	-		-	5SG7133-8BA50 ¹⁾	-
	63 A	5SG7113	5SG7153	5SG7123	5SG7133	5SG7163

¹⁾ Versions for Austria only, with permanently fitted adapter sleeves and incl. fuse link

Accessories

Reducers		
49 Zi	Use	Article No.
	For D01 fuse links in MINIZED D02 switch disconnectors	5SH5527
Auxiliary s	witches (AS)	
- 10	Version	Article No.
24	1 NO contact + 1 NC contact	5ST3010
-0.0	2 NO contacts	5ST3011
A	2 NC contacts	5ST3012
Auxiliary s	witches (AS) with TEST button	
	Version	Article No.
4	1 NO contact + 1 NC contact	5ST3010-2
2/3	2 NO contacts	5ST3011-2
L	2 NC contacts	5ST3012-2

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NEOZED bus-mounting switch disconnectors

For 8US 60 mm busbar systems



For flat copper	Rated current I _e		Rated volta	Rated voltage U _e			Without LED signal detector		With LED	
profiles	IEC	UL 508	IEC AC	IEC DC UL 508					signal detector	
Box terminals										
5 mm and 10 mm	63 A	-	400 V AC	-	-	IEC	5SG7234-1 ²⁾	_	5SG7234-2 ²⁾	
			400 V AC	110 V DC	-	IEC	-	5SG7230 1)	-	

¹⁾ In the case of permanent load over 35 A, we recommend the use of lateral module 5SH5526. Please observe EN 60439-1, Table 1.

Suitable accessories

Auxiliary switches					
	For signaling the swit	ching state for bus-mounting switch disconnectors			
	Contacts	Mounting width	Article No.	Article No.	Article No.
	1 CO contact	0.5 MW	-	5SH5525	-
Lateral modules					
al	For greater heat dissipation	pation for loads from 35 A			
23	Mounting width		Article No.	Article No.	Article No.
	0.5 MW		5SH5533	5SH5526	5SH5533
Reducers					
10 41	Use		Article No.	Article No.	Article No.
	For NEOZED D01 fuse lin	nks in SR60 bus-mounting switch disconnectors	5SH5527	5SH5527	5SH5527

Busbar systems, see page 13/1

²⁾ In the case of permanent load over 35 A, we recommend the use of lateral module 5SH5533. Please observe EN 60439-1, Table 1.

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Signers LV 10 ⋅ 10/2019 7/15

100 A

NEOZED fuse bases

		Comfort base	s made of molded plastic	Fuse bases made of molded plastic					
				Without LE	D signal detector	With LED signal detector			
	Number of poles	1P	3P	1P	3P	1P			
		0	000						
Size	Rated current								
D01	16 A	5SG1301	5SG5301	5SG1302	5SG5302	5SG1302-1			
D02	63 A	5SG1701	5SG5701	5SG1702	5SG5702	5SG1702-1			

D03

ssori				
DZED scr				
	Material	Version	Fuse size	Article No.
	Molded plastic	With inspection hole	D01	5SH4116
			D02	5SH4163
	Ceramic	Without inspection hole, sealable	D01	5SH4316
•			D02	5SH4363
		Without inspection hole	D03	5SH4100
		With inspection hole	D01	5SH4317
3			D02	5SH4362
EOZED ada	pter sleeves			
<u>a</u>	Fuse size	Rated current	Color	Article No.
	D01	2 A	Pink	5SH5002
		4 A	Brown	5SH5004
		6 A	Green	5SH5006
		10/13 A	Red	5SH5010
	D01 fuse links in D02 base	2 A	Pink	5SH5402
	and MINIZED D02 switch	4 A	Brown	5SH5404
	disconnectors	6 A	Green	5SH5406
		10/13 A	Red	5SH5410
		16 A	Gray	5SH5416
	D02	20 A	Blue	5SH5020
		25 A	Yellow	5SH5025
		32 A	Violet	5SH5032
		35/40 A	Black	5SH5035
		50 A	White	5SH5050
	D03	80 A	Silver	5SH5080



NEOZED covers						
	Fuse size	Article No.				
	D03	5SH5233				
NEOZED adapter	sleeve fitters					
		Article No.				
		5SH5100				
NEOZED retainin	NEOZED retaining springs					
KINA	Use	Article No.				
	For D01 fuse links in D02 screw caps, 2 16 A	5SH5400				

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DIAZED fuse bases

		Fuse bases made of molde With box terminal			
	Number of poles		3P	1P	1P
		0			
			<u>ééé!</u>		
Size	Rated current	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V
DII	25 A	5SF1060	5SF5068	5SF1005	_
DIII	63 A	5SF1260 1)	5SF5268 1)	-	5SF1205 ¹⁾

¹⁾ Can also be used for 690 V AC / 600 V DC.

Accessories

N	laterial	Version	Fuse size	Rated voltage AC / DC	Article No.
M	folded plastic	With inspection hole	NDz	500/500 V	5SH1112
			DII	500/500 V	5SH1221
			DIII	500/500 V	5SH1231
C	eramic	Without inspection hole	DII	500/500 V	5SH112
			DIII	500/500 V	5SH113
		With inspection hole,	DII	500/500 V	5SH122
		sealable	DIII	500/500 V	5SH123
)		Extended version	DIII	690/600 V	5SH1170
)		With fine thread	DIII	750/750 V	5SH1161
D screw adapte	e rs Also for 5SF230 up	2 to 750 V			_
	use size	Rated current			Article No
D		2 A			5SH310
J		4 A			5SH311
		6 A			5SH312
		10 A	5SH313		
		16 A			5SH314
		20 A	5SH315		
		25 A			5SH316
D	III	32 A			5SH327
		35 A			5SH317
		50 A			5SH318
		63 A			5SH320



DIAZED adapt	er sleeves for screw ca	ps	
	Use		Article No.
	For DII fuse links in	DIII base	5SH302
DIAZED adapt	er sleeve fitters		
	Use		Article No.
0	For DII/DIII screw	dapters	5SH3703
DIAZED cover	rings		
	Fuse size	Material	Article No.
	DII	Molded plastic	5SH3401
	DIII	Molded plastic	5SH3411
DIAZED caps			
	Fuse size	Material	Article No.
	DII	Molded plastic	5SH202
	DIII	Molded plastic	5SH222

System overview, page 7/4 Siemens LV 10 · 10/2019 7/19

Bus-mounting bases

For 8US busbar systems

			Compact busbar systems	60 mm busbar sys	stems		
			NEOZED design	NEOZED design		DIAZED design	
		Number of poles	3P	3P		3P	
			ا ا ا	ar ar ar			
Size	I _n	Mounting U _n AC/DC width	With touch protection	Standard	With touch protection	Standard	With touch protection
D02	63 A	1.5 MW	-	3NW7122	5SG6206	-	-

5SG6207

5SG6208

2 MW

Accessories

Covers for standard version for 60 mm busbar systems							
	Design	Fuse size	Version	Mounting width (1 MW = 18 mm)	Article No.		
	NEOZED	D02	Standard	1.5 MW	5SH5241		
			Extra wide	2 MW	5SH5242		
			Double width	3 MW	5SH5243		
	DIAZED	DII			5SH2042		
		DIII			5SH2242		

Busbar systems, see page 13/1

5SF6020

5SF6220

DII
 25 A
 500/500 V
 55F6015

 DIII
 63 A
 500/500 V¹⁾
 55F6215

 $^{^{\}mbox{\scriptsize 1)}}$ Can also be used for 690 V AC / 600 V DC.

Photovoltaic cumulative fuse bases

With flat terminals, ceramic	With swiveling mechanism	With swiveling mechanism and microswitch for tripped signaling

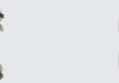
Size	Rated current	Rated voltage DC			
1	250 A	1000 V	3NH3230	-	-
1L	250 A	1000 V	-	3NH7260-4	3NH7262-4KK01
2L	400 A	1000 V	-	3NH7360-4	3NH7360-4KK01
3L	630 A	1000/1500 V	-	3NH7460-4	-
1XL	250 A	1500 V	-	3NH7261-4	-
2XL	400 A	1500 V	-	3NH7361-4	_

Accessories

Terminal covers for PV fuse bases with swiveling mechanism				
1	Fuse link size	Article No.		
	1, 1L, 1XL	3NX3121		
	2L, 2XL	3NX3122		
	3L	3NX3123		

LV HRC fuse bases

Number of poles 1P







Size	Rated current	Flat terminals	Plug-in terminal	Saddle-type terminal	Double busbar terminal	
000/00) 160 A	3NH3030	3NH3031	3NH3032	-	
0 1)	160 A	3NH3120	-	-	-	
1	250 A	3NH3230	-	-	3NH3220	
2	400 A	3NH3330	-	-	3NH3320	
3	630 A	3NH3430	-	_	3NH3420	
4	1250 A	3NH3530	-	-	_	
4a	1250 A	_	_	_	_	

¹⁾ No longer to be used for new installations!

Accessories

LV HRC	protective covers for LV HRC fuse base	es .	
40	As touch protection for contact pi	eces	
	Size		Article No.
	000/00		3NX3105
	0		3NX3114
	1		3NX3106
	2		3NX3107
	3		3NX3108
LV HRC	partitions for LV HRC fuse bases		
4	 As intermediate phase and end ba 	rrier	
	Size	Туре	Article No.
1/2	000/00	3NH30/3NH40	3NX2023
1	0	3NH31	3NX2030
	1	3NH32	3NX2024
	2	3NH33	3NX2025
	3	3NH34	3NX2026
LV HRC	protective covers		
	Size	Use	Article No.
	000/00	1P and 3P	3NX3115
		When using fuse links with non-insulated grip lugs	3NX3116





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Cylindrical fuse holders



Accessories

Auxiliary swi	tches for cylindrical fuse holders, s	tandard		
ruxiliary 3WI	 For retrofitting using the factory-fi 			
•	Display		Fuse link size	Article No.
11	Disconnection of fuse link, for striker	fuse links	14 mm × 51 mm	3NW7901
age.			22 mm × 58 mm	3NW7902
	Switching state of fuse holder		8 mm × 32 mm and 10 mm × 38 mm	3NW7903
Auxiliary swi	tches for cylindrical fuse holders, o	ompact		
2111	Rated operational current I _e /AC-12	Rated operational voltage U _e	Contacts	Article No.
	5 A	Max. 250 V	1 NO contact + 1 NC contact	3NW7903-1
	ylindrical fuse holders, compact			
ANAMAAA	Number of poles I _n	Pin spacing	Length	Article No.
	2× 3P 63 A	15 mm	45 mm	5ST2601
	3× 3P 63 A	15 mm	90 mm	5ST2602
	4× 3P 63 A	15 mm	135 mm	5ST2603
	5× 3P 63 A	15 mm	180 mm	5ST2604
erminals for	cylindrical fuse holders, compact			
y u u	Version			Article No.
100	For conductor cross-sections 2.5 mm	² 35 mm ²		5ST2600

Busbar systems, see page 13/1

SITOR fuse bases and holders

For SITOR fuses with bolt-on links or blade contacts



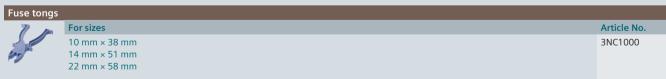
Rated current	Rated voltage AC/DC	For fuse series	Mounting dimensions		
50 A	690 V	3NC18	75 mm	3NH5723	-
315 A	690 V	3NE87, 3NC26	80 mm	3NH5023	-
400 A	690 V	3NE803MK	80 mm	3NH5323	-
630 A	1800 V	3NE53, 3NE56	170 mm	-	3NH5473
1250 A	1250 V	3NC24, 3NC331U, 3NC341U, 3NC84, 3NE13, NE32, 3NE33	110 mm	-	3NH5463
1600 A	690 V	3NE823MK	80 mm	-	3NH5423

For cylindrical fuses



Size	Rated voltage	Signaling swit	ch		Signaling switch								
	AC/DC	without	with										
10 mm × 38 mm	600/-V	_	_	_	_	3NC1038-1	3NC1038-2	3NC1038-3					
	690/800 V	3NC1091	-	3NC1092	3NC1093	-	-	-					
14 mm × 51 mm	690/800 V	3NC1491	3NC1491-5	3NC1492	3NC1493	-	_	-					
22 mm × 58 mm	690/800 V	3NC2291	3NC2291-5	3NC2292	3NC2293	-	-	-					
22 mm × 127 mm	1500/1000 V	3NC2391-0MK	-	3NC2392-0MK	3NC2393-0MK	-	-	-					

Accessories



Photovoltaic cylindrical fuse holders

		Without signal dete	ector		With signal detector		
	Number of poles	1P	1P	2P	1P	2P	
					A P		
Size	Rated current	U _n DC 1000 V	U _n DC 1500 V	U _n DC 1000 V	U _n DC 1000 V	U _n DC 1000 V	
10 mm × 38 mm	30 A	3NW7013-4	-	3NW7023-4	3NW7014-4	3NW7024-4	
10 mm × 85 mm	32 A	_	3NW7613-4	_	-	-	

Class J fuse holders

	For mounting on DIN mounting rail				Bus-mounting for 8US 60 mr	j fuse holders n busbar syster	ns
Number of poles	1P	2P	3P	3P	3P	3P	3P

Rated current	Rated voltage							
30 A	600 V	3NW7511-3HG	3NW7521-3HG	3NW7531-3HG	-	-	-	-
60 A	600 V	3NW7511-5HG	3NW7521-5HG	3NW7531-5HG	-	-	-	-
100 A	600 V	-	-	-	3NW7531-6HG	3NW7431-6HG	-	-
200 A	600 V	-	-	-	3NW7531-7HG	-	3NW7431-7HG	-
400 A	600 V	-	-	_	3NW7531-8HG	-	-	3NW7431-8HG

Busbar systems, see page 13/1

Class CC fuse holders

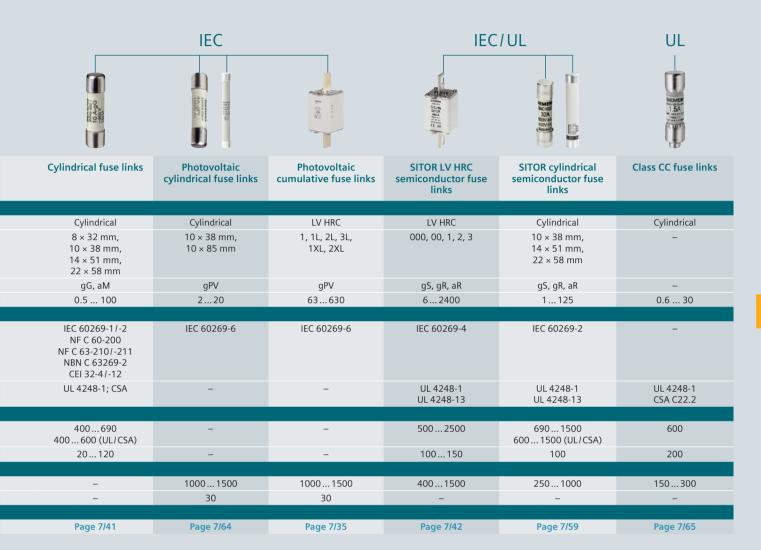


Busbar systems, see page 13/1

7

Overview of fuse links

		IEC							
		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	BEMENT STATE OF THE STATE OF TH	A CONTRACT OF THE STATE OF THE	100 mm m m m m m m m m m m m m m m m m m				
		NEOZED fuse links	DIAZED fuse links	SILIZED fuse links	LV HRC fuse links				
Basic data									
Design		NEOZED	DIAZED	NEOZED, DIAZED	LV HRC				
Size		D01, D02, D03	NDz, DII, DIII	D01, D02, DII, DIII, DIV	000/00, 0, 1, 2, 3, 4, 4a				
Operational class		gG	gG	gR	gG, aM				
Rated current	А	2100	2100	10100	21250				
Standards									
Standard		IEC 60269-3 DIN VDE 0636-3	IEC 60269-3 DIN VDE 0635 DIN VDE 0636-3 CEE 16	IEC 60269-3/-4 DIN VDE 0636-3 EN 60269-4 (VDE 0636-4)	IEC 60269-1 / -2 EN 60269-1 DIN VDE 0636				
Approvals		-	-	-	CSA 22.2				
Technical specifications AC Rated voltage AC	V	400	500750	400500	400690				
natea voitage ne	·	100	300730	100500	600 (CSA)				
Rated breaking capacity AC	kA	50	50	50	120				
Technical specifications DC									
Rated voltage DC	V	250	500750	250500	250440				
Rated breaking capacity DC	kA	8	8	8	25				
Further information									
Catalog LV 10		See page 7/33	See page 7/33	See page 7/34	Page 7/36				



NEOZED fuse links

Operational class gG



	Identification	Combonto			
	color	Contacts	U _n AC/DC	U _n AC/DC	U _n AC/DC
,	COIOI		400/250 V	400/250 V	400/250 V
2 A	Pink		5SE2302	-	-
4 A	Brown		5SE2304	-	-
6 A	Green		5SE2306	-	-
10 A	Red		5SE2310	-	-
13 A	Black		5SE2013-2A	-	-
16 A	Gray		5SE2316	-	-
20 A	Blue	Tin-coated	-	5SE2320	_
25 A	Yellow	Tin-coated	_	5SE2325	-
32 A	Violet	Tin-coated	_	5SE2332	-
35 A	Black	Tin-coated	-	5SE2335	-
40 A	Black	Silver-plated	-	5SE2340	-
50 A	White	Silver-plated	_	5SE2350	-
63 A	Copper	Silver-plated	-	5SE2363	-
80 A	Blue		-	-	5SE2280
100 A	Red		-	-	5SE2300

DIAZED fuse links

	Size DII	Size DIII 1)			Size DIV	Size TNDz
	E27	E33			R 11/4"	E16
Operational class	gG	gG		quick	gG	slow
		P				8
	S S S S S S S S S S S S S S S S S S S	\$ \$6	HEMENS	& Others DATE		al DIAT
	SHEM SESSES SHOWED WALL	MAZED BORNES	63A	25A750 Bahnan	10	lag (
		00 & a	OZ Trug	No. 510	The state of the s	

l _n	Identification color	U _n AC/DC 500/440 V	U _n AC/DC 500/440 V	690/600 V	750/750 V	U _n AC/DC 500/400 V	U _n AC/DC 500/440 V
2 A	Pink	5SB211	-	5SD8002	5SD601	_	5SA211
4 A	Brown	5SB221	_	5SD8004	5SD602	_	5SA221
6 A	Green	5SB231	-	5SD8006	5SD603	-	5SA231
10 A	Red	5SB251	-	5SD8010	5SD604	-	5SA251
16 A	Gray	5SB2611	-	5SD8016	5SD605	-	5SA2611
20 A	Blue	5SB2711	-	5SD8020	5SD606	_	5SA2711
25 A	Yellow	5SB2811	-	5SD8025	5SD607	_	5SA2811
32 A	Violet	-	5SB4011	-	-	-	-
35 A	Black	-	5SB4111	5SD8035	5SD608	-	-
50 A	White	-	5SB4211	5SD8050	5SD610	-	-
63 A	Copper	-	5SB4311	5SD8063	5SD611	-	_
80 A	Silver	-	-	-	-	5SC211	-
100 A	Red	-	-	-	-	5SC221	-

¹⁾ For 2 A ... 25 A use screw adaptor DII

SILIZED fuse links

Operational class gR



I _n	Operating value I²t	Power loss P _v	U _n AC/DC 400/250 V	U _n AC/DC 400/250 V	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V	U _n AC/DC 500/500 V
10 A	73 A ² s	6.9 W	5SE1310	-	-	-	-
16 A	60 A ² s	12.1 W	-	-	5SD420	-	-
	120 A ² s	6.2 W	5SE1316	-	-	-	-
20 A	139 A ² s	12.3 W	-	-	5SD430	-	-
	190 A ² s	8.1 W	-	5SE1320	-	-	-
25 A	205 A ² s	12.5 W	-	-	5SD440	-	-
	215 A ² s	8.2 W	-	5SE1325	-	-	-
30 A	310 A ² s	13.5 W	-	-	5SD480	-	-
35 A	470 A ² s	16.7 W	-	5SE1335	-	-	-
	539 A ² s	14.8 W	-	-	-	5SD450	-
50 A	1250 A ² s	18.5 W	-	-	-	5SD460	-
	1960 A ² s	12.0 W	-	5SE1350	-	-	-
63 A	1890 A ² s	28 W	-	-	-	5SD470	-
	4230 A ² s	15.5 W	_	5SE1363	-	-	-
80 A	4200 A ² s	34.3 W	-	-	-	-	5SD510
100 A	8450 A ² s	41.5 W	-	-	-	-	5SD520

Photovoltaic cumulative fuses

Operational class gPV

630 A

		Size 1	Size 1L	Size 2L	Size 3L	Size 1XL	Size 2XL
		1 000	n ode	H over	H ones	1.00	1.000
I _n DC	Power loss P _v	U _n DC 1000 V	U _n DC 1500 V	U _n DC 1500 V			
63 A	19 W	3NE1218-4	-	-	-	-	-
	20 W	-	-	_	-	3NE1218-5E	-
80 A	20 W	3NE1220-4	-	-	-	-	-
	25 W	-	-	_	-	3NE1220-5E	-
100 A	24 W	3NE1221-4	-	-	-	_	-
	30 W	_	-	_	-	3NE1221-5E	-
125 A	26 W	3NE1222-4	-	_	-	-	-
	29 W	-	-	_	-	3NE1222-5E	-
160 A	32 W	3NE1224-4	-	-	-	-	-
	34 W	-	-	_	-	3NE1224-5E	-
200 A	41 W	-	-	-	-	3NE1225-5E	-
	51 W	-	3NE1225-4D	_	-	-	-
250 A	53 W	-	-	-	-	-	3NE1327-5E
	54 W	-	3NE1227-4D	-	-	-	-
315 A	63 W	_	-	-	-	-	3NE1330-5E
	73 W	_	-	3NE1330-4D	-	-	-
400 A	82 W	-	-	3NE1332-4D	-	-	-
500 A	100 W	_	_	_	3NF1434-4F	_	_

3NE1436-4E

LV HRC fuse links

Operational class gG, with combination alarm

	Size 000	Size 00	Size 1
Mounting width	21 mm	30 mm	30 mm
	Hadron State of State	100 A	

				עו יוו יוו						
I _n	U _n AC/DC			U _n AC/DC			U _n AC/DC			
	400/- V	500/250 V	690 ¹⁾ /250 V	400/- V	500/250 V	690 ¹⁾ /250 V	400/- V	500/440 V	690 ¹⁾ /440 V	
Insulated g	ırip lugs									
2 A	-	3NA6802	3NA6802-6	-	-	-	-	-	-	
4 A	_	3NA6804	3NA6804-6	-	_	-	_	-	-	
6 A	-	3NA6801	3NA6801-6	-	_	-	_	-	-	
10 A	3NA6803-4	3NA6803	3NA6803-6	-	_	-	_	-	-	
16 A	3NA6805-4	3NA6805	3NA6805-6	-	_	-	-	3NA6105	-	
20 A	3NA6807-4	3NA6807	3NA6807-6	-	_	-	_	3NA6107	-	
25 A	3NA6810-4	3NA6810	3NA6810-6	_	_	_	_	3NA6110	-	
32 A	3NA6812-4	3NA6812	3NA6812-6	-	_	-	_	-	_	
35 A	3NA6814-4	3NA6814	3NA6814-6	-	_	-	3NA6114-4	3NA6114	-	
40 A	3NA6817-4	3NA6817	3NA6817-6KJ	-	_	3NA6817-6	3NA6117-4	3NA6117	-	
50 A	3NA6820-4	3NA6820	3NA6820-6KJ	-	_	3NA6820-6	3NA6120-4	3NA6120	3NA6120-6	
63 A	3NA6822-4	3NA6822	_	_	_	3NA6822-6	3NA6122-4	3NA6122	3NA6122-6	
80 A	3NA6824-4	3NA6824	-	3NA6824-4KK	3NA6824-7	3NA6824-6	3NA6124-4	3NA6124	3NA6124-6	
100 A	3NA6830-4	3NA6830	_	3NA6830-4KK	3NA6830-7	3NA6830-6	3NA6130-4	3NA6130	3NA6130-6	
125 A	_	_	_	3NA6832-4	3NA6832	_	3NA6132-4	3NA6132	3NA6132-6	
160 A	_	_	_	3NA6836-4	3NA6836	_	3NA6136-4	3NA6136	3NA6136-6	
200 A	_	_	_	_	_	_	_	_	_	
224 A	_	_	_	_	_	_	_	_	_	
250 A	_	_	_	_	_	_	_	_	_	
300 A	_	_	_	_	_	_	_	_	_	
315 A	_	_	_	_	_	_	_	_	_	
355 A	_	_	_	_	_	_	_	_	_	
400 A	_	_	_	_	_	_	_	_	_	
Non-insula	ted grip lugs						_			
2 A	_	3NA7802	3NA7802-6	_	_	_	_	_	_	
4 A	_	3NA7804	3NA7804-6	_	_	_	_	_	_	
6 A	_	3NA7801	3NA7801-6	_	_	_	_	_	_	
10 A	_	3NA7803	3NA7803-6	_	_	_	_	_	_	
16 A	_	3NA7805	3NA7805-6	_	_	_	_	3NA7105	_	
20 A	_	3NA7807	3NA7807-6	_	_	_	_	3NA7107	_	
25 A	_	3NA7810	3NA7810-6	_	_	_	_	3NA7110	_	
32 A	_	3NA7812	3NA7812-6	_	_	_	_	-	_	
35 A	_	3NA7814	3NA7814-6	_	_	_	_	3NA7114	_	
40 A	_	3NA7817	3NA7817-6KJ	_	_	3NA7817-6	_	3NA7117	_	
50 A	_	3NA7820	3NA7820-6KJ	_	_	3NA7820-6	_	3NA7120	3NA7120-6	
63 A	_	3NA7822	-	_	_	3NA7822-6	_	3NA7122	3NA7122-6	
80 A	_	3NA7824	_	_	3NA7824-7	3NA7824-6	_	3NA7124	3NA7124-6	
100 A	_	3NA7830	_	_	3NA7830-7	3NA7830-6	_	3NA7130	3NA7130-6	
125 A	_	-	_	_	3NA7832	-	_	3NA7132	3NA7132-6	
160 A	_	_	_	_	3NA7836	_	_	3NA7136	3NA7136-6	
200 A	_			_	-		_	-	-	
224 A	_	_	_	_	_		_	_	_	
250 A		_	_					_	_	
300 A	_	_	_	_	_		_		_	
315 A	_		_				_		_	
355 A	_	_	_	_	_	_	_		_	
400 A		_	_			_	_		-	
400 A	_	_	_	-	_	_	-	_	_	

 $^{^{1)}\,\}mbox{Manufacturer's confirmation for 690 V +10\% rated voltage available on request.}$



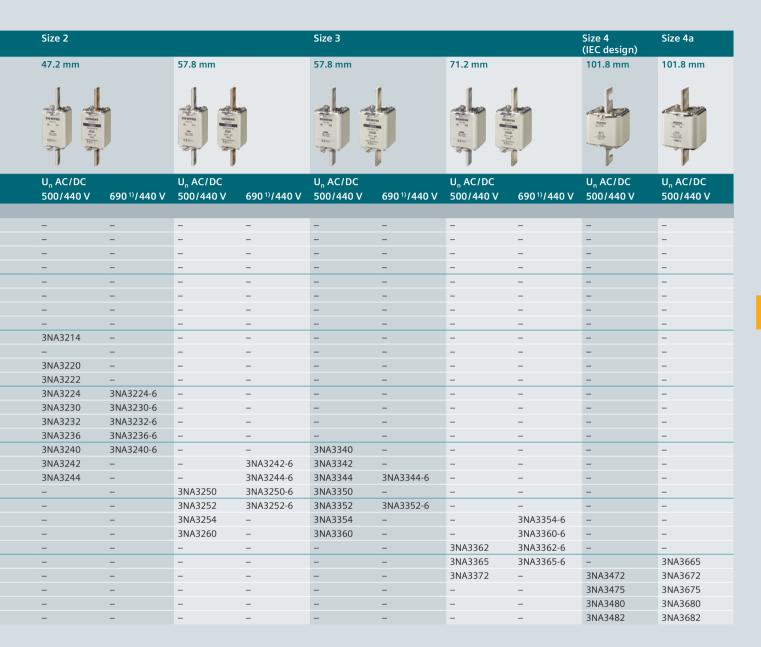
ıı ıı	U .		, , ,			, , , , , , , , , , , , , , , , , , ,		
U _n AC/DC			U _n AC/DC		U _n AC/DC			
 400/– V	500/440 V	690 ¹⁾ /440 V	400/- V	500/440 V	690 ¹⁾ /440 V	 400/– V	500/440 V	690 ¹)/440 V
_	_	_	-	-	-	_	_	_
_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_
_	_	_	-	_	_	_	_	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
_	_	-	_	_	_	-	_	-
-	-	-	_	_	_	-	-	-
-	-	-	-	3NA6214	-	-	_	-
-	_	-	-	-	-	-	-	-
_	_	_	3NA6220-4	3NA6220	_	-	_	_
-	-	-	3NA6222-4	3NA6222	-	-	-	-
-	-	-	3NA6224-4	3NA6224	3NA6224-6	-	-	-
-	_	-	3NA6230-4	3NA6230	3NA6230-6	-	-	_
			3NA6232-4	3NA6232	3NA6232-6	-		_
_	_	_	3NA6236-4	3NA6236	3NA6236-6	-	_	-
3NA6140-4	3NA6140	3NA6140-6	3NA6240-4	3NA6240	3NA6240-6	-	-	-
3NA6142-4	3NA6142	-	3NA6242-4	3NA6242	_	-	_	3NA6242-6
3NA6144-4	3NA6144	_	3NA6244-4	3NA6244	_	-	-	3NA6244-6
_	_	_	-	-	_	3NA6250-4	3NA6250	3NA6250-6
_	-	-	-	_	_	3NA6252-4	3NA6252	3NA6252-6
_	-	_	-	_	_	3NA6254-4	3NA6254	-
-	-	-	-	_	_	3NA6260-4	3NA6260	-
_	_	_	-	-	_	-	_	_
_	_	_	-	-	_	_	_	_
_	_	_	_	_	_	_	_	_
			_			_		
	_	_	-	_	_	_		_
_	_	_	_	_	_	_	_	
_		_	-	_	_	_	_	_
			_	3NA7214		_		
-	_	_	-	-	-	_	_	_
_	_	_	_	3NA7220	-	_	_	_
_	_	_	-	3NA7222	_	_	_	_
-	_	_	_	3NA7224	3NA7224-6	_	_	_
_	_	_	_	3NA7230	3NA7230-6	_	_	_
-	_	_	-	3NA7232	3NA7232-6	_	_	_
-	_	_	-	3NA7236	3NA7236-6	_	_	_
-	3NA7140	3NA7140-6	-	3NA7240	3NA7240-6	-	-	-
-	3NA7142	_	-	3NA7242	-	_	_	3NA7242-6
-	3NA7144	-	-	3NA7244	-	-	-	3NA7244-6
-	-	_	-	-	-	-	-	3NA7250-6
-	_	_	-	-	-	_	3NA7252	3NA7252-6
-	-	_	-	-	-	-	_	-
-	-	_	-	-	-	-	3NA7260	-

LV HRC fuse links

Operational class gG, with front indicator

	Size 000		Size 00		Size 0	Size 1				
Mounting	21 mm			30 mm		30 mm	30 mm		47.2 mm	
width	nt .	ıı		JiT	J ill	1	4 4		4 4	
	SIEMENS SIEMES	5		SIEMENS SIE	MENS O NO.	4.0	4	1	47 47	1
	2A SECON - 15 AND SEC	2		V00.0	SOV MARIC 200 SOA	SA CONTRACTOR CONTRACT	18 A		10 A	
	2A 2A			25A Marie Stage Colorador	SQA On-pa Pana Secono	35	100 mm		100 TO	
	W ~~!	יוד ייד			1	J.	U U		U U	
I _n	U _n AC/DC	F00/2F0\/	6001)/2501/	U _n AC/DC	COO 1) (250) (U _n AC/DC	U _n AC/DC	COO 1) / 4 4 O) /	U _n AC/DC	6001)/440.)/
Noninculate	400/250 V	500/250 V	690 ¹⁾ /250 V	500/250 V	690 ¹⁾ /250 V	500/440 V	500/440 V	690 ¹⁾ /440 V	500/440 V	690 ¹⁾ /440 V
Non-insulate 2 A	a grip lugs	3NA3802	3NA3802-6	_	_	_	-		-	
4 A		3NA3802 3NA3804	3NA3802-6	_	_	_	_			
6 A	_	3NA3804	3NA3801-6	_	_	3NA3001	_	_	_	_
10 A	_	3NA3803	3NA3803-6	_	_	3NA3003	_	_	_	_
16 A	_	3NA3805	3NA3805-6	_	_	3NA3005	3NA3105	_	_	_
20 A	_	3NA3807	3NA3807-6	_	_	3NA3007	3NA3107	_	_	_
25 A	_	3NA3810	3NA3810-6	_	_	3NA3010	3NA3110	_	_	_
32 A	_	3NA3812	3NA3812-6	_	_	3NA3012	_	_	_	_
35 A	_	3NA3814	3NA3814-6	3NA3814-7	_	3NA3014	3NA3114	_	_	_
40 A	_	3NA3817	3NA3817-6KJ	-	3NA3817-6	3NA3017	3NA3117	-	_	-
50 A	-	3NA3820	3NA3820-6KJ	3NA3820-7	3NA3820-6	3NA3020	3NA3120	3NA3120-6	-	-
63 A	-	3NA3822	-	3NA3822-7	3NA3822-6	3NA3022	3NA3122	3NA3122-6	-	-
80 A	_	3NA3824	-	3NA3824-7	3NA3824-6	3NA3024	3NA3124	3NA3124-6	-	-
100 A	-	3NA3830	-	3NA3830-7	3NA3830-6	3NA3030	3NA3130	3NA3130-6	-	-
125 A	3NA3832-8	-	-	3NA3832	-	3NA3032	3NA3132	3NA3132-6	-	-
160 A	3NA3836-8	-	-	3NA3836	-	3NA3036	3NA3136	3NA3136-6	-	-
200 A	-	-	-	-	-	-	-	-	3NA3140	3NA3140-6
224 A	-	-	-	-	-	-	-	-	3NA3142	-
250 A	-	-	-	-	_	-	-	-	3NA3144	3NA3144-6
300 A	_	_	_	_	_	_	-	_	_	_
315 A	-	-	-	-	-	-	-	_	-	-
355 A	-	-	-	_	_	-	-	_	-	-
400 A	-	-	_	-	-	-	-	_	-	-
425 A	_		_	_	_	-	-	_	-	_
500 A	-	-	_	-	-	-	-	_	-	-
630 A	-	_	_	-	-	-	-	_	-	_
800 A	-	_	_	-	-	-	-	-	_	_
1000 A 1250 A	_	_	_	-	-	-	-	-	_	_
1250 A		_	_	_	_	_	-	_	_	_

 $^{^{1)}}$ Manufacturer's confirmation for 690 V +10% rated voltage available on request.



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LV HRC fuse links

Operational class aM, with front indicator

	Size 000	Size 00	Size 1		Size 2		Size 3	
Mounting width		30 mm	30 mm	47.2 mm	47.2 mm	57.8 mm	57.8 mm	71.2 mm
	STEMPLYS STEMPLY STEMPLYS STEMPLY STEMPLYS STEMPLY S	TO THE STATE OF TH		To the state of th	Walter State of the State of th	Salar	A Company of the Comp	Control of the contro

	II ACIDO	II ACIDO	II. ACIDO	II ACIDO	II. ACIDO	II. ACIDO	II ACIDO	II ACIDO			
I _n	U _n AC/DC										
	500/-V	500/- V	690/- V	690/- V	690/-V	690/- V	690/- V	690/-V			
Non-insulated grip lugs											
6 A	3ND1801	-	-	-	-	-	-	-			
10 A	3ND1803	-	-	-	-	-	-	-			
16 A	3ND1805	-	-	-	-	-	-	-			
20 A	3ND1807	-	-	-	-	-	-	-			
25 A	3ND1810	-	-	-	-	-	-	-			
32 A	3ND1812	-	-	-	-	-	-	-			
35 A	3ND1814	-	_	-	_	_	_	-			
40 A	3ND1817	-	_	-	_	-	_	-			
50 A	3ND1820	-	-	-	-	-	-	-			
63 A	3ND1822	-	3ND2122	-	-	-	-	-			
80 A	3ND1824	-	3ND2124	-	-	-	-	-			
100 A	3ND1830-8	3ND1830	3ND2130	-	_	-	_	-			
125 A	-	3ND1832	-	3ND2132	3ND2232	-	-	-			
160 A	-	3ND1836	-	3ND2136	3ND2236	-	-	-			
200 A	-	_	_	3ND2140	3ND2240	-	-	-			
250 A	_	-	_	3ND2144	3ND2244	-	_	-			
315 A	-	-	_	-	_	3ND2252	3ND2352	-			
355 A	-	-	_	-	-	3ND2254	3ND2354	-			
400 A	-	-	_	-	_	3ND2260	3ND2360	-			
500 A	_	-	_	-	_	-	-	3ND1365			
630 A	-	-	_	-	-	-	_	3ND1372			

Cylindrical fuse links

Operational class gG

	Size 8 × 32 mm	Size 10 × 38 mr	n	Size 14 × 51 mm		Size 22 × 58 mm	
				III			
	алеметич 2016.	10 A-9 G		STAND TO !		200 - 200 -	
I _n	U _n AC	U _n AC		U _n AC		U _n AC	
	400 V	400 V	500 V	500 V	690 V	500 V	690 V
0.5 A	-	-	3NW6000-1	_	_	-	-
1 A	-	-	3NW6011-1	_	_	-	-
2 A	3NW6302-1	-	3NW6002-1	-	-	-	-
4 A	3NW6304-1	-	3NW6004-1	_	3NW6104-1	-	-
6 A	3NW6301-1	-	3NW6001-1	_	3NW6101-1	-	_
8 A	-	-	3NW6008-1	_	3NW6108-1	-	-
10 A	3NW6303-1	-	3NW6003-1	-	3NW6103-1	-	-
12 A	-	-	3NW6006-1	_	3NW6106-1	-	-
16 A	3NW6305-1	-	3NW6005-1	_	3NW6105-1	-	3NW6205-1
20 A	3NW6307-1	-	3NW6007-1	_	3NW6107-1	-	3NW6207-1
25 A	_	-	3NW6010-1	-	3NW6110-1	-	3NW6210-1
32 A	-	3NW6012-1	-	_	3NW6112-1	-	3NW6212-1
40 A	-	-	-	3NW6117-1	-	-	3NW6217-1
50 A	_	-	-	3NW6120-1	_	-	3NW6220-1
63 A	-	-	-	-	-	3NW6222-1	-
80 A	-	-	-	-	-	3NW6224-1	-
100 A	-	-	-	-	-	3NW6230-1	-

Operational class aM



SITOR LV HRC semiconductor fuses

Operational class gS, with blade contacts without slots



I _n	Operating value I²t	Power loss P _v	Varying load factor WL	U _n AC/DC 690/- V ¹⁾				
16 A	200 A ² s	4 W	1.0	3NE1813-0	-	_	-	-
20 A	430 A ² s	5 W	1.0	3NE1814-0	-	-	-	-
25 A	780 A ² s	5 W	1.0	3NE1815-0	-	-	-	-
35 A	1700 A ² s	3.5 W	1.0	3NE1803-0	-	_	-	-
40 A	3000 A ² s	3 W	1.0	3NE1802-0	-	_	-	-
50 A	4400 A ² s	6 W	1.0	3NE1817-0	-	_	-	-
63 A	9000 A ² s	7 W	1.0	3NE1818-0	-	-	-	-
80 A	18000 A ² s	8 W	1.0	3NE1820-0	-	-	-	-
100 A	33000 A ² s	10 W	1.0	_	3NE1021-0	_	-	-
125 A	63000 A ² s	11 W	1.0	_	3NE1022-0	-	-	-
160 A	60000 A ² s	24 W	1.0	-	-	3NE1224-0	-	-
200 A	100000 A ² s	27 W	1.0	_	_	3NE1225-0	_	-
250 A	200000 A ² s	30 W	1.0	_	-	3NE1227-0	-	-
315 A	310000 A ² s	38 W	1.0	_	-	3NE1230-0	-	-
350 A	430000 A ² s	42 W	1.0	_	-	_	3NE1331-0	-
400 A	590000 A ² s	45 W	1.0	_	_	_	3NE1332-0	-
450 A	750000 A ² s	53 W	1.0	_	-	_	3NE1333-0	-
500 A	950000 A ² s	56 W	1.0	_	-	_	3NE1334-0	_
560 A	1700000 A ² s	50 W	1.0	_	-	_	-	3NE1435-0
630 A	2350000 A ² s	55 W	1.0	_	-	_	-	3NE1436-0
710 A	3400000 A ² s	58 W	1.0	-	-	-	-	3NE1437-0
800 A	5000000 A ² s	58 W	1.0	_	-	_	-	3NE1438-0

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

Operational class gR, with bolt-on links

	Size 000	Size 00
Screw fixing, mounting dimension	M8, 80 mm	M10, 80 mm
		Marie Control of the

I _n	Operating	Power loss P _v	Varying load	U _n AC/DC	U _n AC/DC
	value I²t		factor WL	690/700 V	690/440 V
20 A	83 A ² s	7 W	0.9	3NE8714-1	-
25 A	140 A ² s	9 W	0.9	3NE8715-1	-
32 A	285 A ² s	10 W	0.9	3NE8701-1	-
40 A	490 A ² s	12 W	0.9	3NE8702-1	-
50 A	815 A ² s	15 W	0.9	3NE8717-1	-
80 A	3200 A ² s	23 W	On req.	-	3NE8020-3MK
100 A	5200 A ² s	29 W	On req.	-	3NE8021-3MK
Further	information				
Catalog LV 10		For further currents for operational class aR, see page 7/48	For further currents for operational class aR, see page 7/48		

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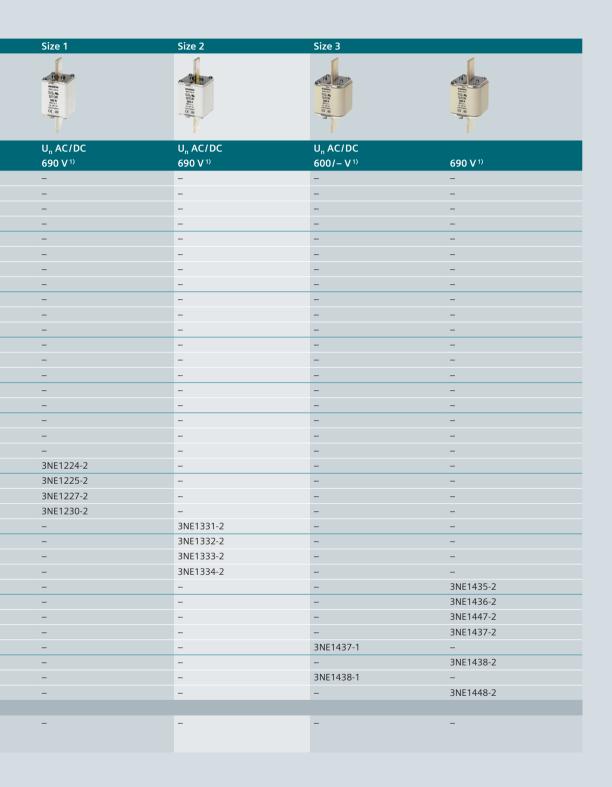
SITOR LV HRC semiconductor fuses

Operational class gR, with blade contacts without slots

Size 000	Size 00	Size 0	
STATE STATE OF THE	SHAMES IN ALL STATES IN ALL ST	Manual Ma Manual Manual Manual Manual Ma Manual Ma Ma Manual Ma Ma Ma Ma	
II AC/DC	II AC/DC	II AC/DC	

				CC and	1	7
I _n	Operating value l²t	Power loss P _v	Varying load factor WL	U _n AC/DC 690/400 V	U _n AC/DC 690 V ¹⁾	U _n AC/DC 1000 V ¹⁾
6 A	37 A ² s	2.7 W	On req.	3NE8810-0MK	-	-
10 A	50 A ² s	4.5 W	On req.	3NE8812-0MK	-	-
16 A	73 A ² s	6.7 W	On req.	3NE8813-0MK	-	-
20 A	90 A ² s	8 W	On req.	3NE8814-0MK	-	-
25 A	150 A ² s	8.1 W	On req.	3NE8815-0MK	-	-
	180 A ² s	7 W	0.95	-	3NE8015-1	-
32 A	280 A ² s	12 W	0.9	-	-	3NE4101
	350 A ² s	10.5 W	On req.	3NE8801-0MK	-	-
35 A	400 A ² s	9 W	0.95	-	3NE8003-1	-
40 A	480 A ² s	12 W	On req.	3NE8802-0MK	-	-
	500 A ² s	13 W	0.9	-	-	3NE4102
50 A	700 A ² s	14 W	0.90	-	3NE8017-1	-
	800 A ² s	16 W	0.9	-	-	3NE4117
	1050 A ² s	14.5 W	On req.	3NE8817-0MK	-	-
63 A	1400 A ² s	16 W	0.95	-	3NE8018-1	-
	1960 A ² s	23 W	On req.	3NE8818-0MK	-	-
80 A	5800 A ² s	10.5 W	1.0	-	3NE1020-2	-
100 A	11000 A ² s	12 W	1.0	-	3NE1021-2	_
125 A	23000 A ² s	13.5 W	1.0	-	3NE1022-2	-
160 A	18600 A ² s	32 W	1.0	-	-	-
200 A	51800 A ² s	35 W	1.0	-	-	-
250 A	80900 A ² s	37 W	1.0	-	-	-
315 A	168000 A ² s	40 W	1.0	-	-	-
350 A	177000 A ² s	43 W	1.0	-	-	-
400 A	224000 A ² s	50 W	1.0	-	-	-
450 A	276500 A ² s	58 W	1.0	-	-	-
500 A	398000 A ² s	64 W	1.0	-	-	-
560 A	890000 A ² s	60 W	1.0	-	-	-
630 A	1390000 A ² s	60 W	1.0	-	-	-
670 A	1640000 A ² s	64 W	1.0	-	-	-
710 A	1818000 A ² s	72 W	1.0	-	-	-
	2460000 A ² s	65 W	1.0	-	-	-
800 A	2475000 A ² s	84 W	1.0	-	-	-
	3350000 A ² s	72 W	1.0	-	-	-
850 A	3640000 A ² s	76 W	1.0	-	-	-
Further	information					
Catalog I	LV 10			For further currents for operational class aR, see page 7/49	-	For further currents for operational class aR, see page 7/49

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"



System overview, page 7/4

With 2 oblong slots

SITOR LV HRC semiconductor fuses

Operational class gR, with slotted blade contacts

Screw fixing, mounting dimension (lateral) M10, 110 mm

Size 3

With oblong and transverse slots Size 1

M10, 110 mm





				•	,			
I _n	Operating value I²t	Power loss P _v	Varying load factor WL	U _n AC/DC 500 V ¹⁾	690 V ¹)	U _n AC/DC 690 V ¹⁾	1000/600 V	
32 A	4500 A ² s	9 W	On reg.	-	_	-	3NE3201-0MK	
40 A	900 A ² s	26 W	On req.	_	_	_	-	
	6000 A ² s	13 W	On req.	_	_	_	3NE3202-0MK	
50 A	1800 A ² s	27 W	On req.	_	_	-	_	
	8000 A ² s	18 W	On req.	_	_	_	3NE3217-0MK	
63 A	3100 A ² s	34 W	On req.	_	_	_	_	
	9000 A ² s	25 W	On req.	-	-	-	3NE3218-0MK	
150 A	17600 A ² s	40 W	0.85	-	3NC8423-0C	-	_	
	33000 A ² s	35 W	0.85	3NC2423-0C	-	-	-	
160 A	18600 A ² s	32 W	1.0	-	_	3NE1224-3	-	
200 A	38400 A ² s	55 W	0.85	-	3NC8425-0C	-	-	
	51800 A ² s	35 W	1.0	-	-	3NE1225-3	-	
	64000 A ² s	40 W	0.85	3NC2425-0C	_	_	_	
250 A	70400 A ² s	72 W	0.85	-	3NC8427-0C	-	-	
	80900 A ² s	37 W	1.0	-	-	3NE1227-3	-	
	99000 A ² s	50 W	0.85	3NC2427-0C	_	-	_	
300 A	132000 A ² s	65 W	0.85	3NC2428-0C	-	-	-	
315 A	168000 A ² s	40 W	1.0	-	_	3NE1230-3	_	
350 A	176000 A ² s	95 W	0.85	-	3NC8431-0C	-	-	
	177000 A ² s	43 W	1.0	-	-	-	-	
	249000 A ² s	60 W	0.85	3NC2431-0C	-	-	-	
400 A	224000 A ² s	50 W	1.0	-	-	-	-	
450 A	276500 A ² s	58 W	1.0	-	-	-	-	
500 A	398000 A ² s	64 W	1.0	-	-	-	-	
	448000 A ² s	130 W	0.85	-	3NC8434-0C	-	-	
560 A	890000 A ² s	60 W	1.0	-	-	-	-	
630 A	1390000 A ² s	60 W	1.0	-	-	-	-	
670 A	1640000 A ² s	64 W	1.0	-	-	-	-	
710 A	1818000 A ² s	72 W	1.0	-	_	-	-	
800 A	2475000 A ² s	84 W	1.0	-	-	-	-	
850 A	3640000 A ² s	76 W	1.0	-	-	-	_	
1000 A	1400000 A ² s	138 W	1.0	-	-	-		
1100 A	3000000 A ² s	110 W	1.0	-		-		
1250 A	4100000 A ² s	104 W	1.0	-	-	-		
1350 A	4800000 A ² s	126 W	1.0	-	-	-		
1400 A	5200000 A ² s	127 W	1.0	-	_	-	-	
1600 A	6900000 A ² s	152 W	1.0	-	-	-	-	
1700 A	6400000 A ² s	179 W	1.0	-	-	-	-	
1700 A	10000000 A ² s	143 W	1.0	-	_	-	-	
1900 A	8200000 A ² s	196 W	1.0	-	-	-	-	
	nformation							
Catalog L	.V 10			For further currents for operational class aR, see page 7/52	-	-	-	

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current" ²⁾ Minimum clearance 90 mm

Size 2		Size 3		Size 3	Size 2×3	Size 3×3
M10, 110 (90) mm	M10, 170 mm	M10, 110 mm		M12, 110 mm	M12, 110 mm ²⁾	M12, 110 mm ²⁾
The state of the s	Se de la constant de			and the second	Hamilton Maria	
U _n AC/DC	U _n AC/DC	U _n AC/DC		U _n AC/DC	U _n AC/DC	U _n AC/DC
690 V 1)	1500/1000 V	500 V 1)	690 V 1)	690 V 1)	690 V 1)	690 V 1)
-	-	-	-	-	-	-
-	3NE5302-0MK06	-	-	-	-	-
	-	-	_	-	_	-
-	3NE5317-0MK06	-	-	-	-	-
-	-	-	-	-	-	-
-	3NE5318-0MK06	-	-	-	-	-
	-	-	_	-	-	-
-	-	-	3NC8423-3C	-	-	-
-	-	3NC2423-3C	-	-	-	-
	-	-	_	-	-	-
-	-	-	3NC8425-3C	-	-	-
-	-	-	-	-	-	-
-	-	3NC2425-3C	-	-	-	-
-	-	-	3NC8427-3C	-	-	-
-	-	-	-	-	-	-
	-	3NC2427-3C	_	-	_	-
-	-	3NC2428-3C	-	-	-	-
	-	_	_	-	-	_
_	-	-	3NC8431-3C	-	-	-
3NE1331-3	-	-	_	-	-	-
-	-	3NC2431-3C	_	-	_	-
3NE1332-3	-	-	-	-	-	-
3NE1333-3	-	-	-	-	-	-
3NE1334-3	-	-	-	-	-	-
	-	-	3NC8434-3C	-	_	-
-	-	-	-	3NE1435-3	-	-
-	-	-	-	3NE1436-3	-	-
_	_	_	_	3NE1447-3	-	-
_	-	-		3NE1437-3 3NE1438-3	_	-
-	-	-	-		-	-
_	_	_	_	3NE1448-3	- 2ND22E0 18826	-
_	_	_	_	-	3NB3350-1KK26	-
			_		3NB3351-1KK26	
_	_	-	_	_	3NB3352-1KK26	-
_	_	_	_	_	3NB3354-1KK26	-
_		_	_	_	3NB3355-1KK26 3NB3357-1KK26	-
	_	_	_		- NB3357-1KK26	3NB3358-1KK27
_			_	_	- 3NB3358-1KK26	- SINB3338-1KK2/
_				_	- SNB3358-1KK26	- 3NB3362-1KK27
						JINDJJUZ-TKKZ/
-	-	For further currents for operational class aR, see page 7/52	For further currents for operational class aR, see page 7/52	For further currents for operational class aR, see page 7/52	-	-

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SITOR LV HRC semiconductor fuses

Operational class aR, with bolt-on links

Screw fixing, mounting dimension M8, 80 mm M10, 80 mm

see page 7/43

Operational class aR, with blade contacts without slots

Size 000	Size 00	Size 0	Size 1	Size 2
Binates Binate	HEMENS HEMENS HEMENS HEMENS HEMENS 120 A A HEMENS HEM HEMENS HEME	STATE OF THE STATE		In the second se

				19	19		3		P
I _n	Operating value l²t	Power loss P _v	Varying load factor WL	U _n AC/DC 500/440 V	690/440 V	U _n AC/DC 690 V ¹⁾	U _n AC/DC 1000 V ¹⁾	U _n AC/DC 690/440 V	U _n AC/DC 690/440 V
63 A	1500 A ² s	20 W	0.9	-	-	-	3NE4118	-	-
80 A	2200 A ² s	23.3 W	On req.	_	3NE8820-0MK	_	-	-	-
	2400 A ² s	19 W	0.95	_	_	3NE8020-1	_	-	_
	3000 A ² s	22 W	0.9	_	-	_	3NE4120	-	_
100 A	3650 A ² s	27 W	On req.	_	3NE8821-0MK	-	-	-	_
	4200 A ² s	22 W	0.95	_	_	3NE8021-1	_	-	_
	6000 A ² s	24 W	0.9	_	-	-	3NE4121	-	_
	6050 A ² s	25.5 W	On req.	_	-	_	_	3NE8221-0MK	_
125 A	6500 A ² s	28 W	0.95	_	_	3NE8022-1	-	-	_
	7800 A ² s	30 W	On req.	_	3NE8822-0MK	-	_	-	_
	8900 A ² s	28.5 W	On req.	_	-	-	_	3NE8222-0MK	_
	14000 A ² s	30 W	0.9	_	-	-	3NE4122	-	_
160 A	13000 A ² s	38 W	0.95	-	_	3NE8024-1	-	-	-
	14000 A ² s	34 W	On req.	3NE8824-0MK	-	-	_	-	-
	16200 A ² s	37 W	On req.	_	_	_	_	3NE8224-0MK	_
	29000 A ² s	35 W	0.9	_	-	-	3NE4124	-	_
200 A	26000 A ² s	49 W	On req.	_	_	-	-	3NE8225-0MK	-
250 A	59000 A ² s	52 W	On req.	-	-	-	-	3NE8227-0MK	-
315 A	120000 A ² s	68 W	On req.	_	-	-	_	3NE8230-0MK	_
350 A	83500 A ² s	68.6 W	On req.	_	_	-	-	-	3NE8331-0MK
400 A	136000 A ² s	72.8 W	On req.	_	-	-	_	-	3NE8332-0MK
450 A	207000 A ² s	80.1 W	On req.	-	-	-	-	-	3NE8333-0MK
500 A	318000 A ² s	77.5 W	On req.	_	-	-	-	-	3NE8334-0MK
550 A	399000 A ² s	86.4 W	On req.	_	_	-	-	-	3NE8335-0MK
630 A	740000 A ² s	90.7 W	On req.	_	-	-	_	-	3NE8336-0MK
Further	information								
Catalog LV 10		For further cur for operationa see page 7/44		-	For further currents for operational class gR, see page 7/44	-	-		

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

System overview, page 7/4

With 2 oblong slots

SITOR LV HRC semiconductor fuses

Operational class aR, with slotted blade contacts

Screw fixing, mounting dimension M10, 110 mm

Size 3

With oblong and transverse slots Size 1

M8, 80 mm M10, 110 mm

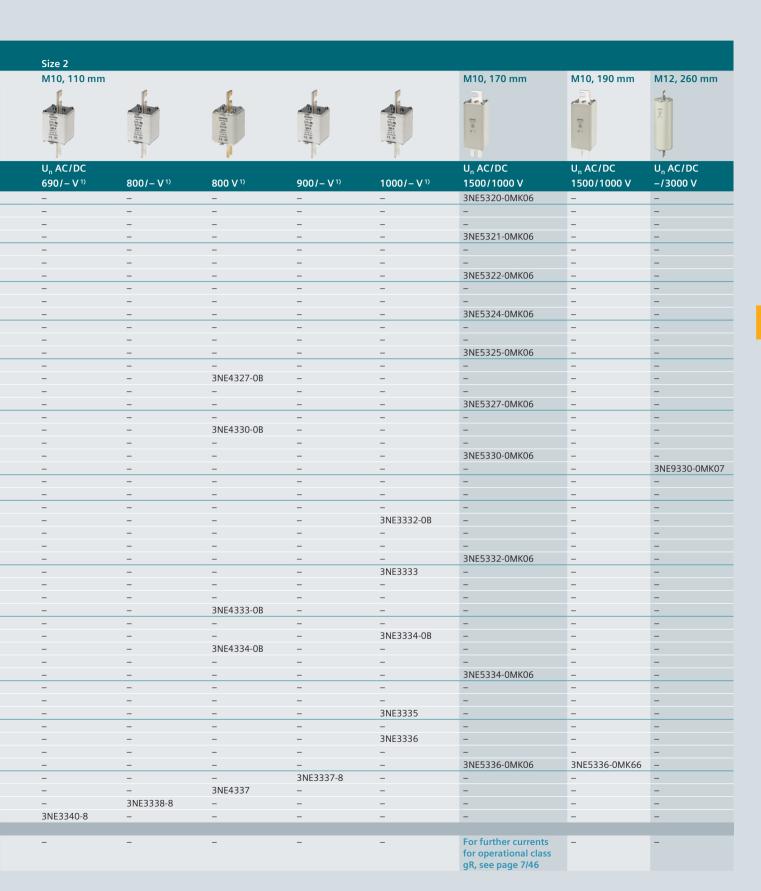






				The state of the s	JJ			
I _n	Operating value	Power loss P _v	Varying load	U _n AC/DC	U _n AC/DC	U _n AC/DC		
	l²t		factor WL	500 V ¹⁾	690/440 V	1000/- V ¹⁾	1000/600 V	
80 A	3900 A ² s	42 W	On req.	-	-	-	-	
100 A	3200 A ² s	25 W	On req.	-	3NE8221-3MK	-	-	
	4800 A ² s	28 W	0.95	_	-	3NE3221	-	
	8700 A ² s	45 W	On req.	_	-	_	-	
125 A	6000 A ² s	28 W	On req.	-	3NE8222-3MK	-	-	
	7200 A ² s	36 W	0.95	_	-	3NE3222	-	
	11800 A ² s	59 W	On req.	_	-	_	_	
160 A	10500 A ² s	35 W	On req.	-	3NE8224-3MK	-	-	
	13000 A ² s	42 W	1.0	_	-	3NE3224	-	
	37000 A ² s	54 W	On req.	_	-	_	_	
200 A	17500 A ² s	42 W	On req.	_	3NE8225-3MK	_	_	
	30000 A ² s	42 W	1.0	_	_	3NE3225	_	
	70000 A ² s	56 W	On req.	_	-	_	-	
250 A	28500 A ² s	53.5 W	On req.	_	3NE8227-3MK	_	_	
	29700 A ² s	105 W	0.85	-	-	-	-	
	48000 A ² s	50 W	1.0	-	_	3NE3227	_	
	165000 A ² s	59 W	On req.	_	_	_	_	
315 A	53500 A ² s	61 W	On req.	_	3NE8230-3MK	_	_	
	60700 A ² s	120 W	0.85	_	_	_	_	
	80000 A ² s	60 W	0.95	_	_	3NE3230-0B	_	
	250000 A ² s	76 W	On req.	_	_	_	_	
	300000 A ² s	245 W	On req.	_	_	_	_	
350 A	66000 A ² s	69 W	On req.	_	3NE8231-3MK	_	_	
	100000 A ² s	75 W	0.95	_	_	3NE3231	_	
400 A	110000 A ² s	70.5 W	On req.	_	3NE8232-3MK	_	_	
	135000 A ² s	80 W	1.0	_	_	_	_	
		85 W	0.9	_	_	3NE3232-0B	_	
	390000 A ² s	50 W	0.85	3NC2432-0C	_	_	_	
	470000 A ² s	89 W	On req.	_	_	_	_	
450 A	175000 A ² s	90 W	1.0	_	_	_	_	
		95 W	0.9	_	_	3NE3233	_	
	180000 A ² s	71 W	On req.	_	3NE8233-3MK	_	_	
	191000 A ² s	140 W	0.85	_	_	_	_	
500 A	215000 A ² s	84 W	On req.	_	3NE8234-3MK	_	_	
5007.	260000 A ² s	90 W	1.0	_	-	_	_	
	276000 A ² s	155 W	0.85	_	_	_	_	
	500000 A ² s	105 W	On reg.	_	_	_	3NE3234-0MK08	
	800000 A ² s	109 W	On req.	_	_	_	-	
550 A	290000 A ² s	87 W	On req.	_	3NE8235-3MK	_		
55071	700000 A ² s	110 W	On req.	_	-	_	3NE3235-0MK08	
560 A	360000 A ² s	95 W	1.0	_	_	_		
630 A	440000 A ² s	96 W	On req.	_	3NE8236-3MK			
03071	600000 A ² s	100 W	1.0	_	- SINEO230 SIVIK	_		
	850000 A ² s	127 W	On req.	_	_	_	3NE3236-0MK08	
	1100000 A ² s	163 W	On req.	_	_		-	
710 A	800000 A s	105 W	1.0	_	_			
710 A	923000 A ² s	155 W	0.95		_	_	_	
800 A	850000 A ² s	130 W	0.95		_	_	_	
900 A	920000 A ² s	165 W	0.95		_		_	
	information	103 W	0.93					
Catalog				For further currents for operational class gR, see page 7/46	-	-	-	

1) For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"



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SITOR LV HRC semiconductor fuses

Operational class aR, with slotted blade contacts

With oblong and transverse slots Size 3

Screw fixing, mounting dimension M10, 110 mm











				The state of the s		1	7	7	7
I _n	Operating	Power	Varying load	U _n AC/DC		U _n AC/DC	U _n AC/DC	U _n AC/DC	
-n	value l²t	loss P _v	factor WL	500 V ¹⁾	600 V 1)	1000 V ¹⁾	1500 V 1)	1500 V ¹⁾	2000 V 1)
100 A	13500 A ² s	25 W	1.0	-	-	3NE3421-0C	-	-	-
125 A	34500 A ² s	78 W	1.0	-	-	-	_	_	-
160 A	54000 A ² s	56 W	1.0	-	-	-	_	3NE5424-0C	-
200 A	138000 A ² s	75 W	1.0	-	-	-	_	_	3NE7425-0U
224 A	54000 A ² s	85 W	1.0	-	_	3NE3626-0C	_	_	_
	138000 A ² s	80 W	1.0	-	_	_	_	3NE5426-0C	-
250 A	84000 A ² s	130 W	1.0	-	_	_	3NE5627-0C	_	-
	218000 A ² s	110 W	1.0	-	_	_	_	_	3NE7427-0U
315 A	72500 A ² s	80 W	0.95	_	_	-	_	_	_
	218000 A ² s	80 W	1.0	-	_	3NE3430-0C	_	_	_
	311000 A ² s	115 W	1.0	-	_	-	_	3NE5430-0C	-
350 A	428000 A ² s	135 W	1.0	-	_	-	_	3NE5431-0C	_
	555000 A ² s	120 W	1.0	-	_	-	_	_	3NE7431-0U
400 A	163000 A ² s	95 W	0.95	_	_	_	_	_	_
	364000 A ² s	110 W	1.0	_	_	3NE3432-0C	_	_	_
	390000 A ² s	50 W	0.85	3NC2432-3C	_	_	_	_	_
	620000 A ² s	205 W	1.0	_	_	_	_	_	_
	870000 A ² s	150 W	1.0	_	_	_	_	_	3NE7432-0U
450 A	488000 A ² s	110 W	1.0	_	_	3NE3635-0C	_	_	-
13071	590000 A ² s	160 W	1.0	_	_	-	3NE5633-0C	_	_
	870000 A ² s	145 W	0.95	_		_	-	3NE5433-0C	
	960000 A's	160 W	1.0	_		-	_	- 3NE3433-0C	3NE7633-0U
500 A	290000 A's	115 W	0.90	_					3NE7033-00
300 A	870000 A ² s	95 W	1.0	_	_	3NE3434-0C	_	_	_
				-	_	3NE3434-UC	-	-	-
E2E 4	1270000 A ² s	235 W	1.0	-	_	-	_	_	_
525 A	1120000 A ² s	210 W	1.0	-		-	- 2NIEE (42, 00	_	_
600 A	1950000 A ² s	145 W	1.0	-		-	3NE5643-0C	_	
630 A	244000 A ² s	120 W	0.85	-	_	-	-	-	-
	418000 A ² s	145 W	0.85	-	_	-	-	_	-
	650000 A ² s	120 W	0.95	-	_	_	-	_	-
	1280000 A ² s	132 W	1.0	-	_	3NE3636-0C	-	_	_
	1950000 A ² s	220 W	1.0	-	-	-	-	_	3NE7636-0U
	2800000 A ² s	275 W	1.0	-	-	-	-	-	_
710 A	346000 A ² s	130 W	0.85	-	-	-	-	-	-
	569000 A ² s	150 W	0.85	-	-	-	-	_	-
	1950000 A ² s	145 W	1.0	-	-	3NE3637-0C	-	-	-
	3110000 A ² s	275 W	1.0	-	_	_	-	_	_
800 A	498000 A ² s	135 W	0.9	-	-	-	-	_	-
	819000 A ² s	155 W	0.85	-	-	-	-	-	-
	985000 A ² s	145 W	0.90	-	-	-	_	_	-
900 A	677000 A ² s	145 W	0.9	-	-	-	_	_	-
	1160000 A ² s	165 W	0.9	-	_	_	_	_	-
1000 A	975000 A ² s	155 W	0.95	-	_	-	_	_	_
	1670000 A ² s	170 W	0.9	_	_	_	_	_	_
	2480000 A ² s	140 W	0.85	_	3NC8444-3C	_	_	_	_
1100 A	1382000 A ² s	165 W	0.95	_	_	_	_	_	_
	1910000 A ² s	185 W	0.9	_	_	_	_	_	_
1250 A	1990000 A ² s	175 W	0.95	_	_	_	_	_	_
	2600000 A ² s	210 W	0.9	-	_	_	_	-	_
1400 A	2100000 A ² s	200 W	0.95	_	_	_	_	_	_
1600 A	2860000 A ³ s	240 W	0.9	_	_		_	_	_
	information	Z-10 VV	0.5						
				F 6 0	F 6 4				
Catalog	LV 10			For further	For further	_	_	_	-
				currents for	currents for				
				operational class	operational class				
				gR, see page 7/46	gR, see page 7/46				

¹⁾ For the max. DC voltage, see the Configuration Manual "Fuse Systems", chapter "Configuration", "Use with direct current"

3NE9632-1C

3NE9634-1C

3NE9636-1C

3NE5433-1C

3NE7633-1U

3NE7648-1U

3NE7636-1U

3NE7637-1U



3NC3434-1U

3NC3436-1U

3NE3637-1C

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3NC3236-1U

3NC3237-1U

3NC3238-1U

3NC3240-1U

3NC3241-1U

3NC3242-1U

3NC3243-1U

3NC3244-1U 3NC3245-1U 3NC3342-1U

3NC3343-1U

3NC3336-1U

3NC3337-1U

3NC3338-1U

3NC3340-1U

3NC3341-1U

3NC3438-1U

SITOR LV HRC semiconductor fuses

Operational class aR, with female thread at both ends

Screw fixing, flange dimension M10, 109 mm



Size 3

M12, 52 mm



I _n	Operating	Power loss P _v	Varying load	U _n AC/DC	U _n AC/DC		
	value I ² t		factor WL	1000/- V	500/- V	690/-V	
315 A	72500 A ² s	80 W	0.95	-	-	-	
400 A	163000 A ² s	95 W	0.95	_	-	-	
450 A	488000 A ² s	110 W	1.0	3NE3635-6	-	-	
500 A	290000 A ² s	115 W	0.90	-	-	-	
630 A	244000 A ² s	125 W	0.9	-	-	3NC3236-6U	
	418000 A ² s	130 W	0.90	-	-	-	
	650000 A ² s	120 W	0.95	-	-	-	
710 A	346000 A ² s	130 W	0.9	-	-	3NC3237-6U	
	569000 A ² s	140 W	0.90	-	-	-	
800 A	498000 A ² s	135 W	0.95	-	-	3NC3238-6U	
	819000 A ² s	150 W	0.90	-	-	-	
	985000 A ² s	145 W	0.95	-	-	-	
900 A	677000 A ² s	140 W	0.95	-	-	3NC3240-6U	
	1160000 A ² s	160 W	0.95	-	-	-	
1000 A	975000 A ² s	145 W	1.0	-	-	3NC3241-6U	
	1670000 A ² s	165 W	0.95	-	-	-	
1100 A	1382000 A ² s	150 W	1.0	-	-	3NC3242-6U	
	1910000 A ² s	175 W	0.95	-	-	-	
1250 A	1990000 A ² s	155 W	1.0	-	-	3NC3243-6U	
	2600000 A ² s	185 W	0.95	-	-	-	
1400 A	2100000 A ² s	175 W	1.0	-	3NC3244-6U	-	
1600 A	2860000 A ² s	195 W	0.95	-	3NC3245-6U	-	

M12, 73 mm

M12, 73 mm





U _n AC/DC		U _n AC/DC	
800/-V	1000/- V	1100/- V	1250/– V
-	-	-	3NC3430-6U
-	-	-	3NC3432-6U
-	-	-	-
-	-	-	3NC3434-6U
-	-	-	-
-	3NC3336-6U	-	-
-	-	-	3NC3436-6U
-	-	-	-
-	3NC3337-6U	-	-
-	-	-	-
-	3NC3338-6U	-	-
-	-	3NC3438-6U	-
-	-	-	-
-	3NC3340-6U	-	-
-	-	-	-
-	3NC3341-6U	-	-
-	-	-	-
3NC3342-6U	-	-	-
-	-	-	-
3NC3343-6U	-	-	-
-	-	-	-
-	-	-	-

System overview, page 7/4

SITOR LV HRC semiconductor fuses

Operational class gR, special designs

Screw fixing, flange dimension M10, 89 mm

Without installation bracket
For SITOR 6QG11 thyristor sets

M10, 89 mm

I _n	Operating value I ² t	Power loss P _v	Varying load factor WL	U _n AC 600 V	Ս _ո AC 1000 V
50 A	1100 A ² s	20 W	0.85	-	3NE4117-5
850 A	2480000 A ² s	85 W	1.0	3NE9440-6	_

Operational class aR, special designs

Without installation bracket
For screwing onto water-cooled busbars

Flange dimension 83 mm









Operating value I ² t	Power loss P _v	Varying load factor WL	U _n AC 600 V	900 V	U _n AC 800 V	1000 V	
7400 A ² s	35 W	0.85	-	-	-	-	
60500 A ² s	43 W	0.85	_	-	-	-	
44000 A ² s	50 W	0.85	-	-	-	-	
29700 A ² s	105 W	0.85	-	-	-	-	
635000 A ² s	25 W	0.9	-	-	-	-	
60700 A ² s	120 W	0.85	_	-	-	-	
260000 A ² s	80 W	0.9	_	-	3NC5531	-	
1430000 A ² s	32 W	0.9	-	-	-	-	
191000 A ² s	140 W	0.85	-	-	-	-	
395000 A ² s	90 W	0.85	_	-	-	-	
276000 A ² s	155 W	0.85	_	-	-	-	
888000 A ² s	150 W	0.9	-	-	-	3NC5840	
888000 A ² s	145 W	0.9	-	-	3NC5841	-	
620000 A ² s	150 W	0.9	_	3NE6437-7	_	-	
923000 A ² s	155 W	0.95	_	_	_	-	
1728000 A ² s	170 W	0.9	-	-	-	3NC5838	
1920000 A ² s	170 W	0.9	-	-	-	-	
2480000 A ² s	210 W	0.9	3NE9450-7	_	_	_	
	74t 7400 A²s 60500 A²s 44000 A²s 29700 A²s 635000 A²s 635000 A²s 260000 A²s 1430000 A²s 191000 A²s 395000 A²s 276000 A²s 888000 A²s 888000 A²s 620000 A²s 923000 A²s 1728000 A²s	7400 A²s 35 W 60500 A²s 43 W 44000 A²s 50 W 29700 A²s 105 W 635000 A²s 25 W 60700 A²s 120 W 260000 A²s 32 W 1430000 A²s 32 W 191000 A²s 140 W 395000 A²s 90 W 276000 A²s 155 W 888000 A²s 155 W 888000 A²s 155 W 888000 A²s 155 W 923000 A²s 155 W 1728000 A²s 170 W 1920000 A²s 170 W	I²t factor WL 7400 A²s 35 W 0.85 60500 A²s 43 W 0.85 44000 A²s 50 W 0.85 29700 A²s 105 W 0.85 635000 A²s 25 W 0.9 60700 A²s 120 W 0.85 260000 A²s 80 W 0.9 1430000 A²s 32 W 0.9 191000 A²s 140 W 0.85 395000 A²s 90 W 0.85 276000 A²s 155 W 0.85 888000 A²s 150 W 0.9 888000 A²s 145 W 0.9 923000 A²s 150 W 0.9 923000 A²s 155 W 0.95 1728000 A²s 170 W 0.9 1920000 A²s 170 W 0.9	I²t factor WL 600 V 7400 A²s 35 W 0.85 - 60500 A²s 43 W 0.85 - 44000 A²s 50 W 0.85 - 29700 A²s 105 W 0.85 - 635000 A²s 25 W 0.9 - 60700 A²s 120 W 0.85 - 260000 A²s 80 W 0.9 - 1430000 A²s 32 W 0.9 - 191000 A²s 140 W 0.85 - 395000 A²s 90 W 0.85 - 276000 A²s 155 W 0.85 - 888000 A²s 150 W 0.9 - 888000 A²s 145 W 0.9 - 888000 A²s 150 W 0.9 - 923000 A²s 155 W 0.95 - 1728000 A²s 170 W 0.9 - 1920000 A²s 170 W 0.9 -	I²t factor WL 600 V 900 V 7400 A²s 35 W 0.85 - - 60500 A²s 43 W 0.85 - - 44000 A²s 50 W 0.85 - - 29700 A²s 105 W 0.85 - - 635000 A²s 25 W 0.9 - - 60700 A²s 120 W 0.85 - - 260000 A²s 80 W 0.9 - - 1430000 A²s 32 W 0.9 - - 191000 A²s 140 W 0.85 - - 395000 A²s 90 W 0.85 - - 276000 A²s 155 W 0.85 - - 888000 A²s 145 W 0.9 - - 888000 A²s 145 W 0.9 - - 888000 A²s 150 W 0.9 - - 1728000 A²s 150 W 0.9 - -	I²t factor WL 600 V 900 V 800 V 7400 A²s 35 W 0.85 - - - 60500 A²s 43 W 0.85 - - - 44000 A²s 50 W 0.85 - - - 29700 A²s 105 W 0.85 - - - 635000 A²s 25 W 0.9 - - - 60700 A²s 120 W 0.85 - - - 260000 A²s 80 W 0.9 - - - 260000 A²s 80 W 0.9 - - - 1430000 A²s 32 W 0.9 - - - 191000 A²s 140 W 0.85 - - - 395000 A²s 150 W 0.85 - - - 276000 A²s 150 W 0.9 - - - 888000 A²s 145 W 0.9 - - -	I²t factor WL 600 V 900 V 800 V 1000 V 7400 A²s 35 W 0.85 - - - - - 60500 A²s 43 W 0.85 - - - - - 44000 A²s 50 W 0.85 - - - - - 29700 A²s 105 W 0.85 - - - - - 635000 A²s 25 W 0.9 - - - - - 60700 A²s 120 W 0.85 - - - - - 260000 A²s 80 W 0.9 - - - - - 191000 A²s 32 W 0.9 - - - - - 191000 A²s 140 W 0.85 - - - - - 276000 A²s 155 W 0.85 - - - - - 888000 A

For air-cooled rectif in electrolysis syste		For mounting directly in the railway supply rectifier	For SITOR 6QG12 thyristor sets	For SITOR 6QG10 thyristor sets	For SITOR 6QG11 thyristor sets	
89 mm			77 mm			
Name of the state	Indian and a second and a secon	Name of the state	William State of the Control of the	The state of the s	Anna Maria	
U _n AC		U _n AC	U _n AC	U _n AC	U _n AC	
600 V	900 V	680 V	800 V	1000 V	1000 V	
-	-	-	-	-	3NE4121-5	
-	-	-	-	-	3NE4146-5	
-	-	-	-	3NE3525-5	-	
-	-	-	3NE4327-6B	-	-	
-	-	3NC7327-2	-	-	-	
-	-	-	3NE4330-6B	-	-	
-	-	-	-	-	-	
-	-	3NC7331-2	-	_	-	
-	-	-	3NE4333-6B	-	-	
-	-	-	-	3NE3535-5	-	
-	-	-	3NE4334-6B	-	-	
-	-	-	-	-	-	
-	-	-	-	-	-	
=	3NE6437	-	-	_	-	
-	-	-	3NE4337-6	-	-	
-	-	-	-	-	-	
-	3NE6444	-	-	-	-	
3NE9450	-	_	-	_	-	

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With installation bracket

SITOR LV HRC semiconductor fuses

DC fuses, operational class gR, with slotted blade contacts



 $^{^{1)}\,}I^2t$ at $U_{VSI}\,\,1400\,\,V$ is 240000 A^2s

DC fuses, operational class aR, with slotted blade contacts

				Size 1L	Size 2L	Size 3L	Size 2×3L	Size 3×3L
			Screw fixing	M12	M12	M12	M12	M12
				- 3 - 2	- 3			111
				Market 1		Fall		100 may 100 ma
I _n	Operating value	Power loss	Varying load	U _n DC	U _n DC	U _n DC	U _n DC	U _n DC
	I ² t at U _{VSI} 1500 V ²⁾	P_{v}	factor WL	1250 V	1250 V	1250 V	1250 V	1250 V
200 A	39000 A ² s	50 W		20101126 41/1/11				
		30 W	_	3NB1126-4KK11	-	-	-	-
250 A	80500 A ² s	50 W	_	3NB1126-4KK11	-	-	-	-
250 A 315 A			- -				- -	
	80500 A ² s	51 W	- - -	3NB1128-4KK11	-	-	- - -	-
315 A	80500 A ² s 129000 A ² s	51 W 63 W	- - - -	3NB1128-4KK11 -	- 3NB1231-4KK11	-	- - - -	-
315 A 400 A	80500 A ² s 129000 A ² s 290000 A ² s	51 W 63 W 68 W	-	3NB1128-4KK11 - -	- 3NB1231-4KK11	- - -	- - - -	- - -
315 A 400 A 500 A	80500 A ² s 129000 A ² s 290000 A ² s 600000 A ² s	51 W 63 W 68 W 89 W	-	3NB1128-4KK11 - -	- 3NB1231-4KK11	- - - 3NB1337-4KK11	- - - - - 3NB2345-4KK16	- - -

250 W

275 W

365 W

5100000 A²s

7450000 A²s

2400 A 18100000 A²s

1195000 A²s

3NB2355-4KK16

3NB2357-4KK16 -

3NB2364-4KK17

3NB2366-4KK17

1400 A

1600 A

2100 A

 $^{^{2)}}$ I²t at U_n 1250 V is reduced by the factor k=0.79.

SITOR cylindrical semiconductor fuses

Cylindrical fuses, operational class gS



I _n	Operating value I ² t	Power loss P _v	U _n AC/DC 1500/1000 V
1 A	2 A ² s	2 W	3NC2301-0MK
2 A	4.4 A ² s	2.5 W	3NC2302-0MK
4 A	55 A ² s	5.3 W	3NC2304-0MK
6 A	150 A ² s	6.4 W	3NC2306-0MK
10 A	540 A ² s	3.1 W	3NC2310-0MK
16 A	1120 A ² s	4.7 W	3NC2316-0MK
20 A	2850 A ² s	5.4 W	3NC2320-0MK
25 A	3300 A ² s	6.9 W	3NC2325-0MK
32 A	9050 A ² s	6.7 W	3NC2332-0MK
Further inform	ation		

Catalog LV 10

For further currents for operational class gR, see page 7/60 Operational class aR, see page 7/62

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SITOR semiconductor fuses

Cylindrical fuses, operational class gR

Size 10 × 38 mm	Size 14 × 51 mm
SON SERVICE STORE STORE SERVICE SERVIC	TORNER BOTS BOOK BOOK BOOK BOK BOK BOK BOK

I _n	Operating value I²t	Power loss P _v	U _n AC/DC 690/440 V	690/250 V	U _n AC/DC 690/700 V ¹⁾	690/600 V	690/440 V	690/250 V
6 A	3.5 A ² s	3.1 W	-	-	3NC1406-0MK	-	-	-
	6.5 A ² s	2.5 W	3NC1006-0MK	_	_	_	_	_
10 A	15 A ² s	4.6 W	_	_	3NC1410-0MK	_	_	_
	17 A ² s	4.3 W	_	_	_	_	_	_
	18 A ² s	3.3 W	3NC1010-0MK	_	_	_	_	_
12 A	35 A ² s	4 W	3NC1012-0MK	_	_	_	_	_
16 A	32 A ² s	6.7 W	_	_	_	3NC1416-0MK	_	_
	45 A ² s	6 W	3NC1016-0MK	_	_	_	_	_
	52 A ² s	4.4 W	_	_	_	_	_	_
20 A	68 A ² s	7.4 W	_	_	_	3NC1420-0MK	_	_
	90 A ² s	6.5 W	_	_	_	_	_	_
	110 A ² s	7.8 W	_	3NC1020-0MK	_	_	_	_
25 A	108 A ² s	8.4 W	_	-	_	3NC1425-0MK	_	_
	120 A ² s	9.5 W	_	_	_	-	_	_
	140 A ² s	8.7 W	_	3NC1025-0MK	_	_	_	_
	160 A ² s	8.5 W	_	_	_	_	_	_
	180 A ² s	8.1 W	_	_	_	_	_	_
32 A	175 A ² s	12.3 W	_	_	_	3NC1432-0MK	_	_
327	220 A ² s	12.3 W	_	_	_	-	_	_
	400 A ² s	8.9 W	_	_	-	_	_	_
	420 A ² s	9 W	_	_	_	_	_	_
	450 A ² s	12 W	_	3NC1032-0MK	_	_	_	_
40 A	400 A ² s	14.8 W	_	-	_	_	_	_
	470 A ² s	11.7 W	_	_	_	_	3NC1440-0MK	_
	600 A ² s	11 W	_	_	-	_	-	_
	700 A ² s	12.5 W	_	_	_	_	_	_
	18500 A ² s	9.4 W	_	_	_	_	_	_
50 A	830 A ² s	16.3 W	_		-	_	_	3NC1450-0MK
507.	980 A ² s	17.5 W	_	_	_	_	_	-
	1250 A ² s	13.8 W	_	_	_	_	_	_
	1250 A ² s	15.2 W	_	_	_	_	_	_
63 A	2050 A ² s	18.8 W	_	_	_			_
3370	2400 A ² s	17.5 W	_	_	-	_	_	_
80 A	4400 A ² s	23 W	_	_	_	_	_	_
100 A	11500 A ² s	28.7 W	_	_	_	_	_	_
	information	25.7 **						
Catalog			_	_	_	_	_	_
catalog	2. 10							

¹⁾ DC voltage according to UL



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SITOR semiconductor fuses

Cylindrical fuses, operational class aR

Size 10 × 38 mm ¹⁾	Size 14 × 51 mm	
	Standard	With striking pin
Proof Story	TOTAL COMPANY OF THE PARTY OF T	The state of the s

l _n	Operating	Power loss P _v			U _n AC/DC			U _n AC/DC
	value l²t		600/700 V ²⁾	600/-V	660/- V	690/700 V ²⁾	690/250 V	690/600 V ¹⁾
1 A	1.2 A ² s	5 W	-	-	3NC1401	-	_	-
2 A	10 A ² s	3 W	-	-	3NC1402	-	-	-
3 A	8 A ² s	1.2 W	3NC1003	-	-	-	_	-
	15 A ² s	2.5 W	_	_	3NC1403	_	_	_
4 A	25 A ² s	3 W	-	-	3NC1404	-	-	-
5 A	11 A ² s	1.5 W	_	-	-	3NC1405	-	-
6 A	11 A ² s	1.5 W	_	-	-	3NC1406	-	-
	20 A ² s	1.5 W	3NC1006	_	-	_	_	-
8 A	30 A ² s	2 W	3NC1008	_	_	_	_	-
10 A	22 A ² s	4 W	_	_	_	3NC1410	_	_
	32 A ² s	4 W	_	_	_	_	_	3NC1410-5
	60 A ² s	2.5 W	3NC1010	_	_	_	_	_
12 A	110 A ² s	3 W	3NC1012		_	_		_
15 A	63 A ² s	5.5 W	-	_	_	_	_	3NC1415-5
137	70 A ² s	5.5 W		_	_	3NC1415		-
1 <i>C</i> A			2NC1016		_	-		
16 A 20 A	150 A ² s 100 A ² s	3.5 W 6 W	3NC1016	_		3NC1420		
20 A			- 2NG1020	-	-			-
	200 A ² s	4.8 W	3NC1020	-	-	-	-	-
	220 A ² s	4.6 W	-	-	-	_	_	-
	234 A ² s	6 W	-	-	-	-	_	3NC1420-5
	240 A ² s	5 W	-		_			_
25 A	250 A ² s	6 W	3NC1025	-	-	-	-	-
	300 A ² s	5.6 W	-	-	-	-	_	-
	320 A ² s	7 W	-	-	-	3NC1425	-	-
	350 A ² s	6 W	-	-	-	-	-	-
	378 A ² s	7 W	-	_	-	-	-	3NC1425-5
30 A	400 A ² s	9 W	-	_	-	3NC1430	-	-
	466 A ² s	9 W	_	-	-	-	_	3NC1430-5
32 A	450 A ² s	7 W	-	-	-	-	-	-
	500 A ² s	7.5 W	-	3NC1032	_	_	_	-
	500 A ² s	8 W	_	_	_	_	_	_
	600 A ² s	7.6 W	_	_	_	3NC1432	_	3NC1432-5
40 A	700 A ² s	8.5 W	_	_	-	_	_	_
	750 A ² s	8 W	_	_	_	3NC1440	_	3NC1440-5
	800 A ² s	9 W	_	_	_	-	_	-
50 A	1350 A ² s	9.5 W	_		-			_
JU A	1500 A ² s	9.5 W			_			
	1800 A s	9.5 W	_			3NC1450		3NC1450-5
			_	_	-		_	- SINC 1450-5
C2 A	26000 A ² s	11.6 W	_		-	_	- 2NG1462 0NK	
53 A	2100 A ² s	16.7 W	_	_	-	-	3NC1463-0MK	-
	2600 A ² s	11 W	_	_	-	-	-	-
20.4	3000 A ² s	11 W	_	-	-	-		-
80 A	3500 A ² s	22.5 W	-	-	-	-	_	-
	5500 A ² s	13.5 W	-	-	-	-	-	-
	6000 A ² s	13.5 W	_	_	-	-		-
100 A	5400 A ² s	31.5 W	-	-	-	-	-	-
	8000 A ² s	16 W	-	-	-	-	-	-
	8500 A ² s	16 W	-	_	-	-	-	-
125 A	11800 A ² s	39 W	-	-	-	-	-	-
	29000 A ² s	35.3 W	-	-	-	-	-	-
urther	information							
Catalog			_	_	_	_	_	_
zatalog	10							

 $^{^{\}rm D}$ Observe DC voltage acc. to UL, time constant and minimum breaking current MBC $^{\rm D}$ CCC approval

c' 22 TC				6' 22 427	Si 25 402
Size 22 × 58 mm		With attility will		Size 22 × 127 mm	Size 26 × 103 mm
Standard		With striking pin			With M8 bolt-on links
				Dr.	
		STOR STOR STOR STOR STOR STOR STOR STOR			ANNESS STATE OF THE PARTY OF TH
ACRES STOR STOR STORE SOURCE STORE SOURCE SO		SCORE STORE STORE STORE SOON STOR		85He	
U _n AC/DC	600/2501/	U _n AC/DC	COO (500) (1)	U _n AC/DC	U _n AC/DC
690/700 V ²⁾	690/250 V -	600/500 V ¹⁾	690/500 V ¹⁾	1500/1000 V -	690/440 V -
_	_	_	_	-	_
-	-	_	-	-	-
 	_	_	_	_	-
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-	_	_	_	-	-
-	-	-	-	-	-
-	-	-	-	-	-
- 2NC2220	-	_	-	-	-
3NC2220 -	-	_	_	- -	_
-	-	-	3NC2220-5	-	-
- 2NC222E	-	-	-	-	_
3NC2225 -		_	_		-
-	_	-	3NC2225-5	-	-
-	-	_	-	-	-
<u>-</u>	_	_	_	_	
3NC2232	-	_	-		-
-	-	_	-	-	-
-	-	-	3NC2232-5	-	-
3NC2240	_	_		<u>-</u>	_
-	_	_	_	-	-
-	-	-	3NC2240-5	-	-
3NC2250	-	-	– 3NC2250-5	-	-
<u>-</u>	_	_	- JNCZZ3U-3	-	_
-	-	_	-	3NC2350-0MK	-
-	-	-	-	-	-
3NC2263	_	_	– 3NC2263-5	_	-
<u>-</u>	-	_	- -	-	3NC2680-0MK
3NC2280	-	-	-	-	-
_	-	_	3NC2280-5	_	- 2NC2C00 0MK
- 3NC2200	_	_	_	-	3NC2600-0MK _
-	-	3NC2200-5	_	-	_
-	-	-	-	-	3NC2611-0MK
-	3NC2211-0MK	-	-	-	-
-	-	_	_	For further currents	-
				for operational class qR, see page 7/60	
				Operational class gS see page 7/59	

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Photovoltaic cylindrical fuse links

Operational class gPV



Power loss P _v	Power loss P _v	U _n DC	U _n DC	
	at 70% ¹⁾	1000 V	1200 V	1500 V
1.4 W	0.6 W	3NW6002-4	-	-
2.7 W	1.1 W	-	-	3NW6604-4
1.6 W	0.7 W	3NW6004-4	-	-
3.0 W	1.2 W	-	-	3NW6601-4
1.7 W	0.7 W	3NW6001-4	-	-
3.6 W	1.5 W	-	-	3NW6608-4
1.9 W	0.8 W	3NW6008-4	-	-
3.7 W	1.6 W	-	-	3NW6603-4
2.3 W	1.0 W	3NW6003-4	-	-
3.3 W	1.4 W	-	-	3NW6606-4
2.7 W	1.1 W	3NW6006-4	-	-
3.7 W	1.6 W	-	-	3NW6605-4
3.2 W	1.3 W	3NW6005-4	-	-
4.0 W	1.7 W	-	3NW6607-4	-
3.4 W	1.4 W	3NW6007-4	-	-
	1.4 W 2.7 W 1.6 W 3.0 W 1.7 W 3.6 W 1.9 W 3.7 W 2.3 W 3.3 W 2.7 W 3.7 W 4.0 W	at 70% 1) 1.4 W 0.6 W 2.7 W 1.1 W 1.6 W 0.7 W 3.0 W 1.2 W 1.7 W 0.7 W 3.6 W 1.5 W 1.9 W 0.8 W 3.7 W 1.6 W 2.3 W 1.0 W 3.3 W 1.4 W 2.7 W 1.1 W 3.7 W 1.6 W 3.2 W 1.3 W 4.0 W 1.7 W	at 70% 1) 1000 V 1.4 W 0.6 W 3NW6002-4 2.7 W 1.1 W - 1.6 W 0.7 W 3NW6004-4 3.0 W 1.2 W - 1.7 W 0.7 W 3NW6001-4 3.6 W 1.5 W - 1.9 W 0.8 W 3NW6008-4 3.7 W 1.6 W - 2.3 W 1.0 W 3NW6003-4 3.3 W 1.4 W - 2.7 W 1.1 W 3NW6006-4 3.7 W 1.6 W - 3.2 W 1.3 W 3NW6005-4 4.0 W 1.7 W -	at 70% 1) 1000 V 1200 V 1.4 W 0.6 W 3NW6002-4 — 2.7 W 1.1 W — — 1.6 W 0.7 W 3NW6004-4 — 3.0 W 1.2 W — — 1.7 W 0.7 W 3NW6001-4 — 3.6 W 1.5 W — — 1.9 W 0.8 W 3NW6008-4 — — 3.7 W 1.6 W — — — 2.3 W 1.0 W 3NW6003-4 — — 2.7 W 1.1 W 3NW6006-4 — — 3.7 W 1.6 W — — — 3.2 W 1.3 W 3NW6005-4 — — 4.0 W 1.7 W — 3NW6607-4 —

¹⁾ Tested in fuse holders 3NW7013-4 and 3NW7613-4.

Class CC fuse links

Acc. to UL

		Characteristic: Slow	Characteristic: Slow, current-limiting	Characteristic: Quick
		MEMBER 1.5A 1.5A 1.5A 1.5A 1.5A 1.5A	Manuel Ma	NEMES 1 1 5A
I _n	_n 1)			
0.6 A	6/10 A	3NW1006-0HG	-	-
0.8 A	8/10 A	3NW1008-0HG	-	-
1 A	-	3NW1010-0HG	3NW3010-0HG	3NW2010-0HG
1.5 A	1 ½ A	3NW1015-0HG	-	-
2 A	-	3NW1020-0HG	3NW3020-0HG	3NW2020-0HG
2.5 A	-	3NW1025-0HG	-	-
3 A	-	3NW1030-0HG	3NW3030-0HG	3NW2030-0HG
4 A	_	3NW1040-0HG	3NW3040-0HG	3NW2040-0HG
5 A	_	3NW1050-0HG	3NW3050-0HG	3NW2050-0HG
6 A	-	3NW1060-0HG	3NW3060-0HG	3NW2060-0HG
7.5 A	-	3NW1075-0HG	-	-
8 A	_	3NW1080-0HG	3NW3080-0HG	3NW2080-0HG
10 A	_	3NW1100-0HG	3NW3100-0HG	3NW2100-0HG
12 A	-	-	3NW3120-0HG	3NW2120-0HG
15 A	_	3NW1150-0HG	3NW3150-0HG	3NW2150-0HG
20 A	_	3NW1200-0HG	3NW3200-0HG	3NW2200-0HG
25 A	-	3NW1250-0HG	3NW3250-0HG	3NW2250-0HG
30 A	-	3NW1300-0HG	3NW3300-0HG	3NW2300-0HG

¹⁾ American English wording

System overview, page 7/4

Busbars

According to IEC and UL, can be cut

Pin spacing 1 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	n
Single-phase					Article No.
- 1-	For MINIZED D01 fuse switch disconnectors	220 mm	With end caps	16 mm ²	5ST2186
L1 L1		1000 mm	Without end caps	16 mm ²	5ST2190
Single-phase, angled	1				Article No.
+ 1+	For cylindrical fuse holders 8 × 32 mm and 10 × 38 mm	214 mm	With end caps	16 mm ²	5ST3700
L1 L1	For SITOR cylindrical fuse holders 10 × 38 mm For Class CC fuse holders	1016 mm	Without end caps	16 mm ²	5ST3701
Two-phase					Article No.
- 1	For cylindrical fuse holders 8×32 mm and 10×38 mm For SITOR cylindrical fuse holders 10×38 mm For Class CC fuse holders	214 mm	With end caps	16 mm ²	5ST3704
		1016 mm	Without end caps	16 mm ²	5ST3705
L1 L2	For MINIZED D01 fuse switch disconnectors	220 mm	With end caps	16 mm ²	5ST2187
		1000 mm	Without end caps	16 mm ²	5ST2191
Three-phase					Article No.
- 1 - - 1 - 	For cylindrical fuse holders 8×32 mm and 10×38 mm	214 mm	With end caps	16 mm ²	5ST3708
L1 L2 L3 \	For SITOR cylindrical fuse holders 10 × 38 mm For Class CC fuse holders	1016 mm	Without end caps	16 mm ²	5ST3710
[11 12 13]	For MINIZED D01 fuse switch disconnectors	220 mm	With end caps	16 mm ²	5ST2188
		1000 mm	Without end caps	16 mm ²	5ST2192

According to UL 508, can be cut

Pin spacing 1 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	
Single-phase					Article No.
L1 L1	For Class CC fuse holders 10 × 38 mm (3NC1091, 3NW7513-0HG)	1000 mm	Without end caps	18 mm ²	5ST3701-0HG
Two-phase					Article No.
L1 L2	For Class CC fuse holders 10 × 38 mm (3NC1092, 3NW7523-0HG)	1000 mm	Without end caps	18 mm ²	5ST3705-0HG
Three-phase					Article No.
L1 L2 L3	For Class CC fuse holders 10 × 38 mm (3NC1093, 3NW7533-0HG)	1000 mm	Without end caps	18 mm ²	5ST3710-0HG

According to IEC and UL, can be cut

Pin spacing 1.5 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	
Single-phase					Article No.
-1,5 -	For NEOZED D01/D02 fuse bases made of molded plastic 5SG1.30, 5SG1.31, 5SG5.30	1000 mm	Without end caps, non-insulated	36 mm ²	5SH5322
L1 L1	For NEOZED D01/D02 fuse bases made of ceramic with clamp-type terminals and screw head contacts		Without end caps	24 mm ²	5SH5517
Single-phase, angled					Article No.
L1 L1	For MINIZED D02 switch disconnectors 5SG71.3 For NEOZED D01/D02 fuse bases made of molded plastic 5SG1301, 5SG1701, 5SG5301, 5SG5701, 5SG1302, 5SG1702, 5SG5302, 5SG5702 For NEOZED D01/D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm For SITOR cylindrical fuse holders 14 × 51 mm	1016 mm	Without end caps	16 mm ²	5ST3703

Three-phase					Article No.
L1 L2 L3	For MINIZED D02 switch disconnectors 5SG71.3 For NEOZED D01/D02 fuse bases made of molded plastic 5SG1301, 5SG1701, 5SG5301, 5SG5701, 5SG1302, 5SG1702, 5SG5302, 5SG5702 For NEOZED D01/D02 fuse bases made of ceramic with saddle terminals For cylindrical fuse holders 14 × 51 mm For SITOR cylindrical fuse holders 14 × 51 mm	1016 mm	Without end caps	16 mm ²	5ST3714
	For NEOZED D01/D02 fuse bases made of molded plastic 5SG1.30, 5SG1.31, 5SG5.30 For NEOZED D01/D02 fuse bases made of ceramic with clamp-type terminals and screw head contacts	1000 mm	Without end caps	16 mm ²	5SH5320

According to UL 508, can be cut

Pin spacing 1.5 MW

Pin spacing in MW (1 MW = 18 mm)	Application	Length	Version	Conductor cross-section	
1-phase					Article No.
 1,5 	For fuse holders 14 × 51 mm (3NC1491, 3NW7111)	1000 mm	Without end caps	18 mm ²	5ST3703-0HG
L1 L1				25 mm ²	5ST3701-2HG
Two-phase					
L1 L2	For fuse holders 14 × 51 mm (3NC1492, 3NW7121)	1000 mm	Without end caps	25 mm ²	5ST3705-2HG
3-phase					Article No.
1,5 -1,5 -	For fuse holders 14 × 51 mm (3NC1493, 3NW7131)	1000 mm	Without end caps	18 mm²	5ST3714-0HG
L1 L2 L3				25 mm ²	5ST3710-2HG

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Busbars

Accessories

For busbars according to IEC

rminals						
	For NEOZED D01/D02 fuse bases madFor DIAZED DII/DIII fuse bases made o					
	Terminal version	Conductor cross-section	Article No.			
	Terminal version S	2 25 mm²	5SH5327			
	Terminal versions B and K	6 25 mm²	5SH5328			
	For the infeed of fork-type or pin busbars	6 35 mm²	5ST2157			
s-mounting te	erminal					
3	For DIAZED EZR bus-mounting basesNon-insulated					
	Conductor cross-section		Article No.			
	1.5 16 mm ²		8JH4122			
•	10 35 mm ²		8JH4124			
uch protection						
ΔΙΛΙΔΙ	• For free connections, yellow (RAL 1004) 5 × 1 pin					
00			Article No.			
			5ST3655			
d caps						
	Version	For bar type	Article No.			
	For single-phase busbars	5ST2190	5ST2196			
		5ST37 and 5SH55	5ST3748			
	For two-phase and three-phase busbars	5ST2191 and 5ST2192	5ST2197			
		5ST37 and 5SH5320	5ST3750			

For busbars according to UL 508

Terminals according	g to UL 508				
	Version	Infeed	Article No.		
	For busbars 35 mm ²	Device	5ST3770-0HG		
	For busbars 30 mm ²	Busbar	5ST3770-1HG		
Busbar touch prote	ction according to UL 508				
AAAAA	• For free connections, yellow (RAL 1004) 5 x 1 pin				
			Article No.		
			5ST3655-0HG		
End caps for 5ST37.	HG				
	Version		Article No.		
	For single-phase busbars		5ST3748-0HG		
CE	For two- and three-phase busbars		5ST3750-0HG		

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LV HRC signal detectors, electronic fuse monitoring

LV HRC signal detectors



- Only for SIEMENS LV HRC fuse links 3NA3, 3NA7, 3ND with non-insulated grip lugs
- Rated voltage of up to 690 V AC / 600 V DC
- Contact: Microswitches 250 V AC, 6 A
- Connection: Flat termination 2.3 mm

Fuse size	Article No.
000 4	3NX1021

Signal detector links



• Rated voltage of up to 690 V AC / 600 V DC

Fuse size	Response value	Application	Article No.
000 4	>9 V/2.5 A	For standard applications	3NX1022
	>2 V/7 A	Only for meshed networks	3NX1023

Signal detector tops



- Only for SIEMENS LV HRC fuse links 3NA3, 3NA7, 3ND with non-insulated grip lugs
- Rated voltage of up to 690 V AC / 600 V DC
- Contact: Microswitch 230 V AC, 5 A, 1 CO
- Connection: Flat termination 2.3 mm

Fuse size	Article No.
000, 00, 1, 2	3NX1024

Electronic fuse monitor



- For all low-voltage fuse systems
- · For monitoring all types and versions of melting fuses that cannot be equipped with a fault signal contact
- Can be used in asymmetric systems afflicted with harmonics and regenerative feedback motors
- · Signal also for disconnected loads

U _e AC	I _n	U _c	Article No.
230 V	4 A	3 AC 380 415 V	5TT3170

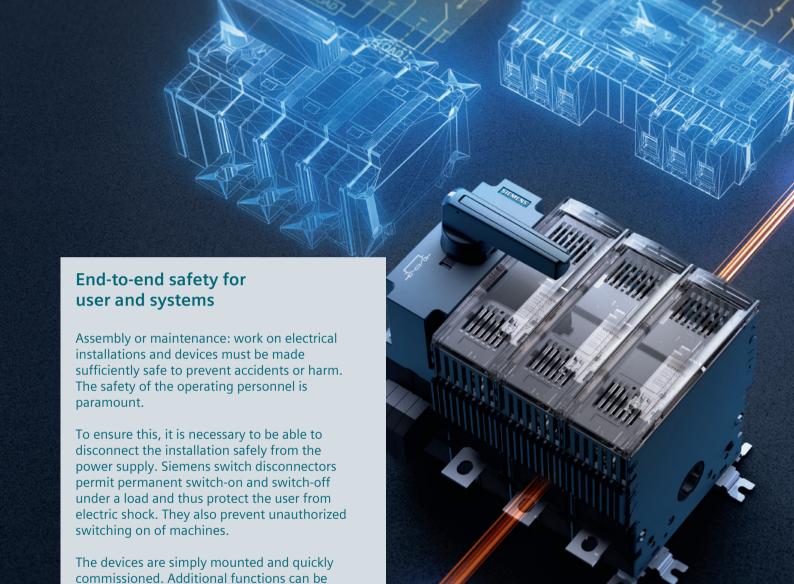
Electronic fuse monitoring for remote display of tripped fuses



- Remote display by auxiliary contact (1 CO)
- Local detection by integrated LED
- For all sizes
- For 3KF LV HRC and 3KF SITOR

U _e AC	I _n	U _c	Article No.
230 V	1.5 A	3 AC 690 V	3KF9010-1AA00

7



Convenient ordering processes and fast delivery optimize stock management and reduce the time and money expended. You can also make use of our CAx data for automated, simplified planning and configuring.

retrofitted at any time – thanks to the modular design of the devices and a comprehensive range

of accessories.

Switch Disconnectors

20 /20			
3	All the information you nee	od	8/2
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A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about switch disconnectors, please visit our website

www.siemens.com/switching-devices



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

• Technical basic information – Switch disconnectors and transfer switching equipment (109763354)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Configurators

Exactly the right switch disconnector for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your 3NJ62 switch disconnector at

www.siemens.com/lowvoltage/3nj62-configurator

Choose the right SITOR semiconductor fuse for your application

www.siemens.com/lowvoltage/sitor-configurator



Contact persons in your region

We are there when you need us

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Everything you need for your order

Refer to the Industry Mall for an overview of your products

 Switching devices sie.ag/2mryctm

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

You will find order support for the electrical wholesale trade carrying fast-selling items in the Siemens Industry Online Support at

www.siemens.com/lowvoltage/catalogs

- Order support 3KD switch disconnectors End-to-end safety for user and systems (109750228)
- Order support 3LD2 main control and EMERGENCY-STOP-switching equipment -End-to-end safety for user and systems (109755626)
- Order support 3NP1 fuse switch disconnectors -End-to-end safety for user and systems (109755624)
- Order support 3KF switch disconnectors with fuses End-to-end safety for user and systems (109750229)
- Order support 3NJ6 switch disconnectors with fuses End-to-end safety for user and systems (109755619)

... can be found in our online services

Commissioning + operation



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax



Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual Switch disconnectors (109769744)
- Configuration manual Fuse systems (45314810)
- Configuration manual Transfer switching equipment and load transfer switches (109769745)
- Configuration manual Busbar systems (109769746)
- System manual SENTRON 3NJ62 In-Line Plug-In switch disconnectors with fuses (31753460)
- Equipment manual 3KD switch disconnector (109758120)
- · System manual SENTRON 3NP1 fuse switch disconnector (33515690)

The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog



Technical overview of switch disconnectors



The fast way to get you to our online services

This page provides you with comprehensive information and links on switch disconnectors www.siemens.com/lowvoltage/product-support (109764946)

Quick selection guide

Load switching devices for all applications



Fuseless switch disconnectors 3)

Functional switching 1)











	Туре	3LD3	3LD2	3KD	3VA	5TE
	Rated current I _n	16 63 A	16 250 A	16 1600 A	63 630 A	100 200 A
	Short-circuit current max.	6 kA	50 kA	100 kA	110 kA 5)	33 kA
Selection acc. to	AC max.	AC-3	AC-3	AC-23A	AC-23A	AC-23A
utilization category	DC max.	-	DC-22A	DC-23A	DC-23A (up to 250 A)	DC-23A
	Suitable fuses					
		-	-	-	-	-
Types of mounting	Floor mounting	•	•	•	•	-
	Mounting on a standard mounting rail	•	•	(up to 200 A)	(up to 160 A)	•
	Front mounting (e.g. in panel door)	•	•	_	_	-
	Mounting on busbar systems (spacing of the busbars)	_	_	-	•	-
	Draw-out technology	-	-	-	•	-
Methods of	Manual from the front					
operation	Manual from the side	-	-	•	•	-
	Remote-controllable	-	-	-	•	-
Number of poles	1-pole	_	_	_	_	_
Number of poles	2-pole	_	_	_	_	•
	3-pole	•	•	•	•	
	4-pole	•	•	•	•	
	6-pole	-	•	•	-	-
Switching	All poles					
function	Individual poles switchable	<u>-</u>				

More information

- According to DIN VDE 0100-200, functional switching is an operation intended to switch on or off or vary the supply of electric energy to an electrical installation or parts of it for normal operating purposes.
 Devices for occasional switching usually have a substantially lower electrical endurance
 - and are switched no more than 1x per minute in the tests.
- Pure switching without protection function
 The suitable fuses protect persons, motors, installations and generators against short circuit and overload

See page 8/6

5) With a line-side fuse for 415 V



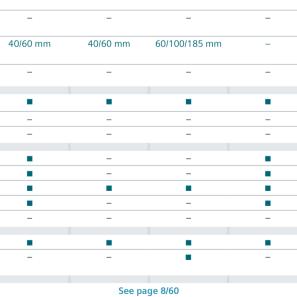
Fuse switch disconnectors 4)

Occasional switching 2)





3NP1	3NP5	3NJ4	5SG76
160 630 A	160 630 A	160 1600 A	16 A
120 kA	100 kA	120 kA	50 kA
AC-23B	AC-23B	AC-23B	AC-22A
DC-23B	DC-23B	-	-
IEC LV HRC	IEC LV HRC	IEC LV HRC	Neozed
•	•	_	_
•	_	_	•
_	_	_	_





Switch disconnectors with fuse 4)

Functional switching 1)

Occasional switching 2)



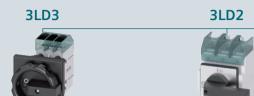
	M M M	MA	
3KF LV HRC	3KF SITOR	3NJ62	5SG71/72
32 800 A	32 800 A	63 630 A	63 A
100 kA	100 kA	100 kA	50 kA
AC-23A	AC-23A	AC-23B	AC-23A
DC-23A	DC-23A	DC-23B	DC-22B
IEC LV HRC	IEC LV HRC, optimized for semiconductor protection	IEC LV HRC/BS	Neozed
•	•	-	-
•	•	-	•
-	-	-	-
-	-	185 mm	60 mm
-	-	•	-
•	•	•	
•	•	-	-
-	-	•	-
_	_	_	

See page 8/92

Fuseless switch disconnectors

Quick selection guide





						_						,,				
Туре			3LD 30	3LD 31	3LD 32	3LD 33	3LD 34	3LD 20	3LD 21	3LD 22	3LD 25	3LD 27	3LD 28	3LD 23	3LD 24	
General technical specifications	acc. to IEC 60947-3		50	31	JE	33	31	20			23		20	23	21	
General technical specifications																
Rated uninterrupted current I _{II}		Α	16	25	32	40	63	16	25	32	63	100	125	160	250	
Rated operational voltage U _e	At 50/60 Hz AC	V			690						6	90				
, , ,	At DC – 2 conducting paths in series	V			-			-								
	At DC – 3 conducting paths in series	V			-			-								
	At DC – 4 conducting paths in series	V			-							-				
Operating and short-circuit behavio																
Rated operational current I _p ¹⁾	At AC-21A AC-21B at 400 V	Α	16	25	32	40	63	16	25	32	63	100	125	160	250	
,e	At AC-21A AC-21B at 690 V	Α	16	25	32	40	63	16	25	32	63	100	125	160	250	
	At AC-22A AC-22B at 400 V	A	16	20	22	36	43	16	25	32	63	100	125	140	230	
	At AC-22A AC-22B at 690 V	A	9	11	13	17	22	16	25	32	63	100	125	140	230	
	At AC-23A AC-23B at 400 V	A	16	20	22	36	43	16	20	22	43	70	80	132	224	
	At AC-23A AC-23B at 690 V	A	9	11	13	17	22	9	11	13	22	34	39	47	58	
	At DC-21A DC-21B at 110 V	A	_	_	-	_	_	_	_	-	_	_			_	
	At DC-21A DC-21B at 220 V	A	_	_	_	_	_	_	_	_	_	_	_	_	_	
	At DC-21A DC-21B at 440 V	A		_												
	At DC-22A DC-22B at 220 V	A		_												
	At DC-22A DC-22B at 440 V	A	_	_	_	_	_		_	_			_		_	
	At DC-23A DC-23B at 220 V			_		_	_			_			_	_	_	_
		A	_		_	_	_	_	_	_	_	_	_	_	_	
Mataravitahing appains	At DC-23A DC-23B at 440 V	A		_ 				_		11 5	22					_
Motor switching capacity	At AC-23A AC-23B at 400 V	kW	7.5	9.5	11.5	18.5	22	7.5	9.5	11.5		37	45	75	132	
	At AC-23A AC-23B at 690 V	kW	7.5	9	11.5	15	18.5	7.5	9.5	11.5	18.5	30	37	45	55	_
	At AC-3 at 400 V	kW	5.5	7.5	9.5	11.5	18.5	5.5	7.5	9.5	18.5	30	37	50	110	
	At AC-3 at 690 V	kW	5.5	7.5	9.5	11.5	15	5.5	7.5	9.5	15	22	30	37	45	_
Rated short-time withstand current I_{cw}	At 690 V AC (t=1 s)	kA	0.5	0.5	0.5	1	1	0.34	0.64	0.64	1.26	2	2	4	4	
Rated conditional short-circuit	At 400/500 V AC	kA	6	6	6	6	6	50	50	50	50	50	25	50	50	
current with upstream fuse	At 690 V AC	kA	6	6	6	6	6	50	50	50	50	50	25	50	50	
Degree of protection																
Maximum achievable IP degree of pro (with a rotary operating mechanism)					IP65						IP	65				
General technical specifications	acc. to UL															
General technical specifications																
Certification according to UL standard	d				UL 508	3					UL	508				
I _n acc. to UL 508		Α	16	25	32	40	63	16	25	32	63	100	125	160	250	
U _e acc. to UL 508		V AC			600						6	00				
Operating and short-circuit behavio	or															
Operational power, three-phase	At 480 V	hp	7.5	10	20	20	25	7.5	10	20	40	60	75	75	100	
	At 600 V	hp	10	15	20	20	30	10	15	20	50	75	100	50	75	
Short circuit current rating (SCCR)	At 480 V at 600 V	kA			5 5			5 5	5 5	5 5	5 5	10 10	10 10	10 10	10 10	
use type				RK5							K5					
More information																
Catalog LV 10 10/2019				See	e page	8/8					See pa	ge 8/1	8			
Catalog LV 10 04/2019			S		jes 7/6		.0				pages 7	_				
				1-25							, , ,					

3LD3 main control and EMERGENCY-STOP switches

System overview

Basic units for front mounting





3P rotary operating 3P knob-operated mechanisms mechanisms



3P+N rotary operating mechanisms



mechanisms

Basic units for floor mounting







3P rotary operating 3P knob-operated mechanisms mechanisms



3P+N rotary operating 3P+N knob-operated mechanisms



mechanisms

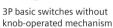
Basic units for installation in distribution boards



3P knob-operated mechanisms









3P+N knob-operated mechanisms



3P+N basic switches without knob-operated mechanism

Additional poles and auxiliary switches







N switching N/PE terminals contacts

Auxiliary switches

Operating mechanisms









Knob-operated mechanisms for front or floor mounting (center hole)





Door-coupling rotary operating mechanisms operated mechanisms

Door-coupling knob-

Other accessories





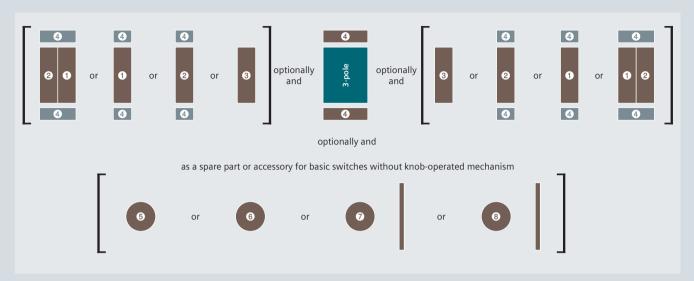




Terminal covers, 1 and 3-pole

Inscription labels

Mounting concept and accessories



Legend

- N switching contact 1)
- N/PE terminal
- 3 Auxiliary switch
- 4 Terminal cover
- Rotary operating mechanism, center-hole mounting Door-coupling knob-operated mechanism, center-hole mounting
- 6 Knob-operated mechanism, center-hole mounting

¹⁾ The N switching contact **1** first has to be mounted on the basic unit



Mounting types

Front mounting



The switches for front mounting are mounted on the inside of the panel door via the operating mechanism. The switches are mounted via the 22.5 mm diameter center hole.

You will find further information under:

Floor mounting



The switches for floor mounting are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

Opportunity operating mechanism, center-hole mounting

Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. They have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers. The selector switches can be locked in their OFF position with no more than one padlock with a hasp thickness of 4 to 6 mm.

Basic switches without knob-operated mechanism



For the basic switch variant without knob-operated mechanism, the appropriate door-coupling rotary operating mechanism can be ordered separately.



3LD3 main control and EMERGENCY-STOP switches

Front mounting, 6 kA_{rms}



Operating mechanisms, black

Number of poles 3P





Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3, 380 440 V	Without auxiliary switch	1 NO + 1 NC
Rotary operating mechanisms				
16 A	7.5 kW	5.5 kW	3LD3054-0TK51	3LD3054-1TK51
25 A	9 kW	7.5 kW	3LD3154-0TK51	3LD3154-1TK51
32 A	11.5 kW	9.5 kW	3LD3254-0TK51	3LD3254-1TK51
40 A	18.5 kW	11.5 kW	3LD3354-0TK51	3LD3354-1TK51
63 A	22 kW	18.5 kW	3LD3454-0TK51	3LD3454-1TK51
Knob-operated mechanisms				
16 A	7.5 kW	5.5 kW	3LD3050-0TK11	3LD3050-1TK11
25 A	9 kW	7.5 kW	3LD3150-0TK11	3LD3150-1TK11
32 A	11.5 kW	9.5 kW	3LD3250-0TK11	3LD3250-1TK11
40 A	18.5 kW	11.5 kW	3LD3350-0TK11	3LD3350-1TK11
63 A	22 kW	18.5 kW	3LD3450-0TK11	3LD3450-1TK11

Scope of supply:
• Including terminal covers for the infeed side

Accessories	5			3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Additional pol	es							
-	Variant	Contacts	Article No.					
1	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0B	•	•	•	•	•
15	N terminal	Through-type	3LD9340-2B		-		-	
	PE terminal	Through-type	3LD9340-3B					
Auxiliary swite	ches							
6		Contacts	Article No.					
*		1 NO + 1 NC	3LD9340-6B	•	•	•	•	•
Rotary operati	ing mechanisms							
		Color	Article No.					
		Black	3LD9344-4C		•		•	
SI.		Red/yellow	3LD9344-5C	•	•	•	•	•
Knob-operate	d mechanisms							
lou		Color	Article No.					
		Black	3LD9343-6C				•	-
NAMES OF THE PARTY		Red/yellow	3LD9343-7C	•	•	•	•	•













		operating internation	Jilis, reary ellow		
3P+N		3P		3P+N	
7-7-7				7777	
Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD3054-0TL51	3LD3054-1TL51	3LD3054-0TK53	3LD3054-1TK53	3LD3054-0TL53	3LD3054-1TL53
3I D3154-0TI 51	3I D3154-1TI 51	3LD3154-0TK53	3I D3154-1TK53	3I D3154-0TI 53	3I D3154-1TI 53

Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD3054-0TL51	3LD3054-1TL51	3LD3054-0TK53	3LD3054-1TK53	3LD3054-0TL53	3LD3054-1TL53
3LD3154-0TL51	3LD3154-1TL51	3LD3154-0TK53	3LD3154-1TK53	3LD3154-0TL53	3LD3154-1TL53
3LD3254-0TL51	3LD3254-1TL51	3LD3254-0TK53	3LD3254-1TK53	3LD3254-0TL53	3LD3254-1TL53
3LD3354-0TL51	3LD3354-1TL51	3LD3354-0TK53	3LD3354-1TK53	3LD3354-0TL53	3LD3354-1TL53
3LD3454-0TL51	3LD3454-1TL51	3LD3454-0TK53	3LD3454-1TK53	3LD3454-0TL53	3LD3454-1TL53
3LD3050-0TL11	3LD3050-1TL11	3LD3050-0TK13	3LD3050-1TK13	3LD3050-0TL13	3LD3050-1TL13
3LD3150-0TL11	3LD3150-1TL11	3LD3150-0TK13	3LD3150-1TK13	3LD3150-0TL13	3LD3150-1TL13
3LD3250-0TL11	3LD3250-1TL11	3LD3250-0TK13	3LD3250-1TK13	3LD3250-0TL13	3LD3250-1TL13
3LD3350-0TL11	3LD3350-1TL11	3LD3350-0TK13	3LD3350-1TK13	3LD3350-0TL13	3LD3350-1TL13
3LD3450-0TL11	3LD3450-1TL11	3LD3450-0TK13	3LD3450-1TK13	3LD3450-0TL13	3LD3450-1TL13

			3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Terminal cove	ers						
	Pack of 4 units						
	Version	Article No.					
4	For N switching contacts, N terminals or PE terminals	3LD9341-2A	•	•	•	•	•
+ 4	For 3-pole 3LD3 switch disconnectors	3LD9341-0A	•	•	•	•	•
Inscription lak	pels						
MAIN Sure	Pack of 10 units						
MAIN SWITCH HAUPTSCHALTER	Inscription	Article No.					
	German / English (Hauptschalter / Main Switch)	3LD9346-1A					
	French / Spanish (Interrupteur Principal / Interruptor Principal)	3LD9346-2A		-		-	
	Without inscription	3LD9346-3A					

3LD3 main control and EMERGENCY-STOP switches

Floor mounting, 6 kA_{rms}



Operating mechanisms, black

Number of poles 3P



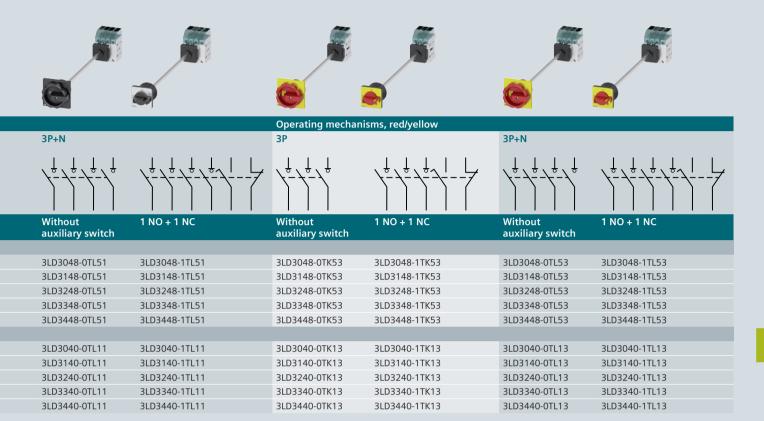


Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V			1 NO + 1 NC
Rotary operating mechanisms				
16 A	7.5 kW	5.5 kW	3LD3048-0TK51	3LD3048-1TK51
25 A	9 kW	7.5 kW	3LD3148-0TK51	3LD3148-1TK51
32 A	11.5 kW	9.5 kW	3LD3248-0TK51	3LD3248-1TK51
40 A	18.5 kW	11.5 kW	3LD3348-0TK51	3LD3348-1TK51
63 A	22 kW	18.5 kW	3LD3448-0TK51	3LD3448-1TK51
Knob-operated mechanisms				
16 A	7.5 kW	5.5 kW	3LD3040-0TK11	3LD3040-1TK11
25 A	9 kW	7.5 kW	3LD3140-0TK11	3LD3140-1TK11
32 A	11.5 kW	9.5 kW	3LD3240-0TK11	3LD3240-1TK11
40 A	18.5 kW	11.5 kW	3LD3340-0TK11	3LD3340-1TK11
63 A	22 kW	18.5 kW	3LD3440-0TK11	3LD3440-1TK11

Scope of supply:
• Including terminal covers for the infeed side

• Using screws or snap-on mounting on 35 mm mounting rails

Accessorie	es			3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Additional p	oles							
3	Variant	Contacts	Article No.					
1	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	•	•	•	•	•
	N terminal	Through-type	3LD9340-2C		-			
	PE terminal	Through-type	3LD9340-3C	-	•		•	-
Auxiliary sw	itches							
ē		Contacts	Article No.					
		1 NO + 1 NC	3LD9340-6C	•	•	•	•	•
Rotary opera	iting mechanisms							
ALA	Version	Color	Article No.					
	Incl. funnel	Black	3LD9344-2C			•		
SHE .		Red/yellow	3LD9344-3C	•	•	•	•	•
Knob-operat	ed mechanisms							
	Version	Color	Article No.					
IN.	Incl. funnel	Black	3LD9343-4C	-				
No.		Red/yellow	3LD9343-5C	•	•	•	•	•



				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Dani asunlin				(10 A)	(23 A)	(32 A)	(40 A)	(03 A)
Door-coupling	y rotary operating mechanisms Variant	Color	Article No.					
	Rotary operating mechanisms	Black	3LD9344-2CA		-			
0	66 × 66 mm	Red/yellow	3LD9344-3CA	•	•	•	•	•
N	Knob-operated mechanisms	Black	3LD9343-4CA	-	•		•	•
	48 × 48 mm	Red/yellow	3LD9343-5CA	•	•	•	•	•
Terminal cove	• Pack of 4 units		_	_				
11	Version		Article No.					
4	For N switching contacts, N termi	nals or PE terminals	3LD9341-2A	•	-	•	•	•
44	For 3LD3 3-pole switch disconnec	tors	3LD9341-0A	•	•	•	•	•
Inscription lab	pels							
MAIN SWITCH	Pack of 10 units							
MAIN SWITCH HAUPTSCHALTER	Inscription		Article No.					
11	German / English (Hauptschalter	Main Switch)	3LD9346-1A	-	-			-
	French / Spanish (Interrupteur Pri	ncipal / Interruptor Principal)	3LD9346-2A					-
	Without inscription		3LD9346-3A					

3LD3 main control and EMERGENCY-STOP switches

Installation in distribution boards, 6kA_{rms}



Operating mechanisms, black

Number of poles 3P





Uninterrupted current I _u At AC-21A, 380 440 V	1A, 380 440 V At AC-23A, 380 440 V At AC-3, 380 440 V		Without auxiliary switch	1 NO + 1 NC
Basic switch with masking plate an	d selector knob, standard rail moun	ting		
16 A	7.5 kW	5.5 kW	3LD3030-0TK11	3LD3030-1TK11
25 A	9 kW	7.5 kW	3LD3130-0TK11	3LD3130-1TK11
32 A	11.5 kW	9.5 kW	3LD3230-0TK11	3LD3230-1TK11
40 A	18.5 kW	11.5 kW	3LD3330-0TK11	3LD3330-1TK11
63 A	22 kW	18.5 kW	3LD3430-0TK11	3LD3430-1TK11
Basic switches without knob-opera	ted mechanism			
16 A	7.5 kW	5.5 kW	3LD3010-0TK05	3LD3010-1TK05
25 A	9 kW	7.5 kW	3LD3110-0TK05	3LD3110-1TK05
32 A	11.5 kW	9.5 kW	3LD3210-0TK05	3LD3210-1TK05
40 A	18.5 kW	11.5 kW	3LD3310-0TK05	3LD3310-1TK05
63 A	22 kW	18.5 kW	3LD3410-0TK05	3LD3410-1TK05

- Scope of supply:

 Basic switches without direct operating mechanism, incl. terminal covers for the infeed side
- Using screws or snap-on mounting on 35 mm mounting rails

d basic s	witches without knob-op	erated mechanism		(16 A)	(25 A)	(32 A)	(40 A)	(63 A)
ditional po	les							
7	Variant	Contacts	Article No.					
, r , r	Switching contact for N conductor (4th contact)	Leading switch-on, lagging switch-off	3LD9340-0C	•	•	•	•	•
1	N terminal	Through-type	3LD9340-2C		-			-
	PE terminal	Through-type	3LD9340-3C					
xiliary swit	ches							
7		Contacts	Article No.					
r L		1 NO + 1 NC	3LD9340-6C	•	•	•	•	•
minal cove								
	Pack of 4 units		A - 11 - 14					
	Version		Article No.					
	For N switching contacts, N termina	ls or PE terminals	3LD9341-2A	•	•	•	•	•
	For 3LD3 3-pole switch disconnected	rs	3LD9341-0A	•	•	•	•	•







		Operating mechanis	ms, red/yellow		
3P+N		3P		3P+N	
7-7-7		1-1-1		7-7-7	
Without	1 NO + 1 NC	Without	1 NO + 1 NC	Without	1 NO + 1 NC

Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD3030-0TL11	3LD3030-1TL11	3LD3030-0TK13	3LD3030-1TK13	3LD3030-0TL13	3LD3030-1TL13
3LD3130-0TL11	3LD3130-1TL11	3LD3130-0TK13	3LD3130-1TK13	3LD3130-0TL13	3LD3130-1TL13
3LD3230-0TL11	3LD3230-1TL11	3LD3230-0TK13	3LD3230-1TK13	3LD3230-0TL13	3LD3230-1TL13
3LD3330-0TL11	3LD3330-1TL11	3LD3330-0TK13	3LD3330-1TK13	3LD3330-0TL13	3LD3330-1TL13
3LD3430-0TL11	3LD3430-1TL11	3LD3430-0TK13	3LD3430-1TK13	3LD3430-0TL13	3LD3430-1TL13
3LD3010-0TL05	3LD3010-1TL05	-	-	-	_
3LD3110-0TL05	3LD3110-1TL05	_	-	-	_
3LD3210-0TL05	3LD3210-1TL05	-	-	-	_
3LD3310-0TL05	3LD3310-1TL05	-	-	-	-
3LD3410-0TL05	3LD3410-1TL05	_	_	-	_

Accessorie	es for basic switches without op	erating mechan	ism	3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Rotary opera	ting mechanisms							
	Version	Color	Article No.					
	Incl. funnel	Black	3LD9344-2C					
		Red/yellow	3LD9344-3C	•	•	•	•	•
Knob-operate	ed mechanisms							
-	Version	Color	Article No.					
In.	Incl. funnel	Black	3LD9343-4C		-			
		Red/yellow	3LD9343-5C	•	•	•	•	•
Door-couplin	g rotary operating mechanisms							
Ŋ	Variant	Color	Article No.					
	Rotary operating mechanisms 66 × 66 mm	Black	3LD9344-2CA					
3		Red/yellow	3LD9344-3CA	•	•	•	•	•
ø	Knob-operated mechanisms 48 × 48 mm	Black	3LD9343-4CA					-
a		Red/yellow	3LD9343-5CA	•	•	•	•	•
nscription la	bels							
MAIN SMEAN	Pack of 10 units							
MAIN SWITCH HAUPTSCHALTER	Inscription		Article No.					
7	German / English (Hauptschalter / Main Swit	ch)	3LD9346-1A		•		•	•
	French / Spanish (Interrupteur Principal / Inte	erruptor Principal)	3LD9346-2A		•		•	
	Without inscription		3LD9346-3A					

System overview, page 8/8

3LD3 main control and EMERGENCY-STOP switches

Accessories

				3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Switching	contacts for N conducto	or (4th contact)		(1019	(2014)	(0214)	(1014)	(co v y
.47) ₁	Version	Contacts	Article No.					
C	For front mounting	Leading switch-on, lagging switch-off	3LD9340-0B		•		•	•
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Leading switch-on, lagging switch-off	3LD9340-0C	•	•	•	•	•
N terminal	s							
-	Version	Contacts	Article No.					
	For front mounting	Through-type	3LD9340-2B	•	•	•	•	•
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Through-type	3LD9340-2C	•	•	•	•	•
PE termina	ıls							
2	Version	Contacts	Article No.					
1	For front mounting	Through-type	3LD9340-3B	•	•	•	•	•
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	Through-type	3LD9340-3C	•	•	•	•	•
Auxiliary s	witches							
ē	Version	Contacts	Article No.					
4	For front mounting	1 NO + 1 NC	3LD9340-6B		-		•	-
	For floor mounting, installation in distribution boards and basic switches without knob-operated mechanism	1 NO + 1 NC	3LD9340-6C	•	•	•	•	•

					3LD30 (16 A)	3LD31 (25 A)	3LD32 (32 A)	3LD33 (40 A)	3LD34 (63 A)
Rotary opera	ating mechanisms								
	Version		Color	Article No.					
	For front mounting, with	hout funnel	Black	3LD9344-4C				•	
1			Red/yellow	3LD9344-5C					
9			, .						
	For floor mounting and	hasic switches	Black	3LD9344-2C					
1		mechanism, with funnel	Red/yellow	3LD9344-3C				_	
			, .						
Knob-opera	ted mechanisms								
la l	Version		Color	Article No.					
	For front mounting, with	hout funnel	Black	3LD9343-6C	-		-	-	
. 13			Red/yellow	3LD9343-7C					
acasta;									
~	For floor mounting and	basic switches	Black	3LD9343-4C				•	
LN	without knob-operated	mechanism, with funnel	Red/yellow	3LD9343-5C			-		
Door-coupli	ng rotary operating me	echanisms							
19	Version	Variant	Color	Article No.					
	For floor mounting	Rotary operating mechanisms	Black	3LD9344-2CA	-		-	-	
3	and basic switches	66 × 66 mm	Red/yellow	3LD9344-3CA					
	without knob-operated mechanism								
ø	mechanism	Knob-operated mechanisms	Black	3LD9343-4CA				•	
		48 × 48 mm	Red/yellow	3LD9343-5CA			-	-	
Terminal co									
		floor mounting, installation in distribu ithout knob-operated mechanism	ition boards						
	Pack of 4 units	ithout knob-operated mechanism							
11	Number of poles			Article No.					
	1-pole			3LD9341-2A		•		-	
16/									
4									
6111	3-pole			3LD9341-0A				-	
491									
Inscription I	ahels								
	Pack of 10 units								
MAIN SWITCH HALPTSCHALTER	Not for installation in	distribution boards							
1	Inscription			Article No.					
	German / English (Haup	tschalter / Main Switch)		3LD9346-1A				-	
	French / Spanish (Interru	upteur Principal / Interruptor Principal)	3LD9346-2A					
	Without inscription			3LD9346-3A				-	

System overview, page 8/8

3LD2 main control and EMERGENCY-STOP switches

System overview

Basic units for front mounting



3P rotary operating 3P knob-operated mechanisms



mechanisms (3LD23/3LD24)



3P knob-operated mechanisms



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms (3LD23/3LD24)



3P+N knob-operated mechanisms



6P rotary operating mechanisms

Basic units for floor mounting



3P rotary operating 3P knob-operated mechanisms



mechanisms (3LD23/3LD24)



3P knob-operated mechanisms, defeatable



3P+N rotary operating mechanisms



3P+N knob-operated mechanisms (3LD23/3LD24)



3P+N knob-operated mechanisms, defeatable



6P rotary operating mechanisms

Basic units for installation in distribution boards/enclosures, DC



3P knob-operated mechanisms



3P+N knoboperated mechanisms



3P/3P+N molded-plastic enclosures



6P molded-plastic enclosures



DC isolators



DC isolators in a molded-plastic enclosure

Additional poles and auxiliary switches



N switching contacts



N/PE terminals (through-type)



switches

Operating mechanisms



Rotary operating mechanisms for 4-hole and center-hole mounting



Knob-operated mechanisms (3LD23/3LD24)



Switching shafts



Coupling pieces without ON-lock



Assembly tools for center-hole mounting

Other accessories



Terminal covers, 1-pole

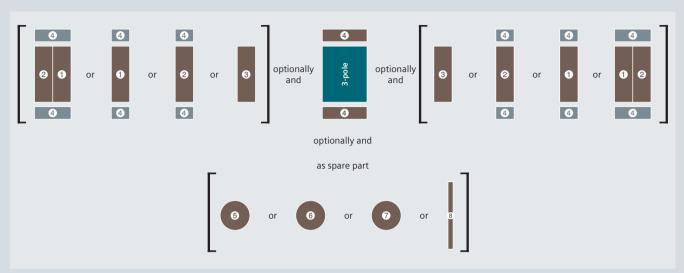


Terminal covers, 3 and 4-pole



Inscription labels (with and without inscription)

Mounting concept and accessories



Legend

- N switching contact 1)
- N/PE terminal
- 3 Auxiliary switch
- 4 Terminal cover
- 6 Rotary operating mechanism, center-hole mounting 3 Switching shaft (300 or 600)
- 6 Rotary operating mechanism, four-hole mounting
- 7 Knob-operated mechanism, four-hole mounting

1) The N switching contact 1 first has to be mounted on the basic unit



Mounting types

Front mounting



The switches for front mounting are mounted on the inside of the panel door via the operating mechanism. In addition to the 4-hole fastening of the handle, up to 63 A (3LD25) fastening with the 22.5 mm diameter center hole can also be chosen.

You will find further information under:

Floor mounting



The switches for floor mounting up to 125 A (3LD28) are snapped onto 35 mm standard mounting rails according to EN 60715 or screw-mounted on mounting panels. The switches for 160 and 250 A (3LD23/3LD24) are exclusively screwed onto mounting panels. The actuators are connected to the lower section of the switch through a door coupling, which can be released in its zero position, and a 300 mm long switch shaft. When the control cabinet door is open, the switch can be protected against inadvertent operation by removing the switch shaft from the lower section of the switch. The overall depth can be adapted to individual requirements by adjusting the switch shaft length.

Distribution board mounting



The switches for distribution board mounting are suited for operation in distribution boards and for switching inside control cabinets or distributors. Up to 125 A (3LD28), they have cap and mounting dimensions acc. to DIN 43880 and can be fitted under the same cover together with miniature circuit breakers.

Molded-plastic enclosures



For surface mounting of individual main control and EMERGENCY-STOP switches, molded plastic-enclosed switches with degree of protection IP65 are used. The molded-plastic enclosures each contain an N and/or a PE terminal.



3LD2 main control switches

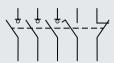
Front mounting, 25 ... 50 kA_{rms}



Operating mechanisms, black

Number of poles 3P





Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC
Rotary operating mechanis	m, four-hole mounting			
16 A	7.5 kW	5.5 kW	3LD2003-0TK51	3LD2003-1TP51
25 A	9.5 kW	7.5 kW	3LD2103-0TK51	3LD2103-1TP51
32 A	11.5 kW	9.5 kW	3LD2203-0TK51	3LD2203-1TP51
63 A	22 kW	18.5 kW	3LD2504-0TK51	3LD2504-1TP51
100 A	37 kW	30 kW	3LD2704-0TK51	3LD2704-1TP51
125 A	45 kW	37 kW	3LD2804-0TK51	3LD2804-1TP51
160 A	75 kW	50 kW	3LD2305-0TK11	3LD2305-0TK11 + 3LD9200-5B
250 A	132 kW	110 kW	3LD2405-0TK11	3LD2405-0TK11 + 3LD9200-5B
Rotary operating mechanis	m, center-hole mounting Ø 22.	.5 mm		
16 A	7.5 kW	5.5 kW	3LD2054-0TK51	3LD2054-1TP51
25 A	9.5 kW	7.5 kW	3LD2154-0TK51	3LD2154-1TP51
32 A	11.5 kW	9.5 kW	3LD2254-0TK51	3LD2254-0TK51 + 3LD9200-5B
63 A	22 kW	18.5 kW	3LD2555-0TK51	3LD2555-0TK51 + 3LD9200-5B
Knob-operated mechanism	, four-hole mounting			
16 A	7.5 kW	5.5 kW	3LD2022-0TK11	3LD2022-0TK11 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2122-0TK11	3LD2122-0TK11 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2222-0TK11	3LD2222-0TK11 + 3LD9200-5B
Knob-operated mechanism	, center-hole mounting Ø 22.5	mm		
16 A	7.5 kW	5.5 kW	3LD2050-0TK11	3LD2050-0TK11 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2150-0TK11	3LD2150-0TK11 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2250-0TK11	3LD2250-0TK11 + 3LD9200-5B

Scope of supply:
• Including terminal covers for the infeed side

Accessories, see page 8/24













3P+N



6P	
7-7-7-7-7	

Without auxiliary switch	1 NO + 1 NC		Without auxiliary switch	1 NO + 1 NC
3LD2003-1TL51	3LD2003-2EP51		-	-
3LD2103-1TL51	3LD2103-2EP51		3LD2103-3VK51	3LD2103-4VP51
3LD2203-1TL51	3LD2203-1TL51	+ 3LD9200-5B	3LD2203-3VK51	3LD2203-3VK51 + 3LD9200-5B
3LD2504-1TL51	3LD2504-1TP51 + 3LD9250-0BA		3LD2504-3VK51	3LD2504-3VK51 + 3LD9200-5B
3LD2704-0TK51 + 3LD9280-0B	3LD2704-0TK51 + 3LD9280-0B	+ 3LD9200-5B	-	-
3LD2804-0TK51 + 3LD9280-0B	3LD2804-0TK51 + 3LD9280-0B	+ 3LD9200-5B	-	-
3LD2305-1TL11	3LD2305-1TL11	+ 3LD9200-5B	3LD2305-3VK11	3LD2305-3VK11 + 3LD9200-5B
3LD2405-1TL11	3LD2405-1TL11	+ 3LD9200-5B	3LD2405-3VK11	3LD2405-3VK11 + 3LD9200-5B
3LD2054-1TL51	3LD2054-2EP51		_	-
3LD2154-1TL51	3LD2154-2EP51		-	-
3LD2254-1TL51	3LD2254-1TL51	+ 3LD9200-5B	_	-
3LD2555-0TK51 + 3LD9250-0BA	3LD2555-0TK51 + 3LD9250-0BA	+ 3LD9200-5B	_	-
3LD2022-1TL11	3LD2022-1TL11	+ 3LD9200-5B	-	-
3LD2122-1TL11	3LD2122-1TL11	+ 3LD9200-5B	-	-
3LD2222-0TK11 + 3LD9220-0B	3LD2222-0TK11 + 3LD9220-0B	+ 3LD9200-5B	_	-
3LD2050-1TL11	3LD2050-1TL11	+ 3LD9200-5B	-	-
3LD2150-0TK11 + 3LD9220-0B	3LD2150-0TK11 + 3LD9220-0B	+ 3LD9200-5B	_	-
3LD2250-0TK11 + 3LD9220-0B	3LD2250-0TK11 + 3LD9220-0B	+ 3LD9200-5B	-	-

3LD2 EMERGENCY-STOP switches

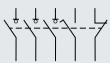
Front mounting, 25 ... 50 kA_{rms}



Operating mechanisms, red/yellow

Number of poles 3P





Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC
Rotary operating mechanis	m, four-hole mounting			
16 A	7.5 kW	5.5 kW	3LD2003-0TK53	3LD2003-1TP53
25 A	9.5 kW	7.5 kW	3LD2103-0TK53	3LD2103-1TP53
32 A	11.5 kW	9.5 kW	3LD2203-0TK53	3LD2203-1TP53
63 A	22 kW	18.5 kW	3LD2504-0TK53	3LD2504-1TP53
100 A	37 kW	30 kW	3LD2704-0TK53	3LD2704-1TP53
125 A	45 kW	37 kW	3LD2804-0TK53	3LD2804-1TP53
160 A	75 kW	50 kW	3LD2305-0TK13	3LD2305-0TK13 + 3LD9200-5B
250 A	132 kW	110 kW	3LD2405-0TK13	3LD2405-0TK13 + 3LD9200-5B
Rotary operating mechanis	m, center-hole mounting Ø 22	2.5 mm		
16 A	7.5 kW	5.5 kW	3LD2054-0TK53	3LD2054-1TP53
25 A	9.5 kW	7.5 kW	3LD2154-0TK53	3LD2154-1TP53
32 A	11.5 kW	9.5 kW	3LD2254-0TK53	3LD2254-0TK53 + 3LD9200-5B
63 A	22 kW	18.5 kW	3LD2555-0TK53	3LD2555-0TK53 + 3LD9200-5B
Knob-operated mechanism	, four-hole mounting			
16 A	7.5 kW	5.5 kW	3LD2022-0TK13	3LD2022-0TK13 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2122-0TK13	3LD2122-0TK13 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2222-0TK13	3LD2222-0TK13 + 3LD9200-5B
Knob-operated mechanism	, center-hole mounting Ø 22.!	5 mm		
16 A	7.5 kW	5.5 kW	3LD2050-0TK13	3LD2050-0TK13 + 3LD9200-5B
25 A	9.5 kW	7.5 kW	3LD2150-0TK13	3LD2150-0TK13 + 3LD9200-5B
32 A	11.5 kW	9.5 kW	3LD2250-0TK13	3LD2250-0TK13 + 3LD9200-5B

Scope of supply:
• Including terminal covers for the infeed side

Accessories, see page 8/24













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7	_/	/))	



6P	
7-7-7-7-7	

1 NO + 1 NC	Without auxiliary switch	1 NO + 1 NC
3LD2003-2EP53	-	-
3LD2103-2EP53	3LD2103-3VK53	3LD2103-4VP53
3LD2203-1TL53 + 3LD9	9200-5B 3LD2203-3VK53	3LD2203-3VK53 + 3LD9200-5B
3LD2504-1TP53 + 3LD9250-0BA	3LD2504-3VK53	3LD2504-3VK53 + 3LD9200-5B
3LD2704-0TK53 + 3LD9280-0B + 3LD	9200-5B –	-
3LD2804-0TK53 + 3LD9280-0B + 3LD	9200-5B –	-
3LD2305-1TL13 + 3LD	9200-5B 3LD2305-3VK13	3LD2305-3VK13 + 3LD9200-5B
3LD2405-1TL13 + 3LD9	9200-5B 3LD2405-3VK13	3LD2405-3VK13 + 3LD9200-5B
3LD2054-2EP53	-	-
3LD2154-2EP53	-	-
3LD2254-1TL53 + 3LD	9200-5B –	-
3LD2555-0TK53 + 3LD9250-0BA + 3LD9	9200-5B –	-
3LD2022-1TL13 + 3LD	9200-5B –	-
3LD2122-1TL13 + 3LD	9200-5B –	-
3LD2222-0TK13 + 3LD9220-0B + 3LD9	9200-5B –	-
3LD2050-1TL13 + 3LD	9200-5B –	-
3LD2150-0TK13 + 3LD9220-0B + 3LD9	9200-5B –	-
3LD2250-0TK13 + 3LD9220-0B + 3LD	9200-5B –	-
	3LD2003-2EP53 3LD2103-2EP53 3LD2203-1TL53	3LD2003-2EP53

3LD3 main control and EMERGENCY-STOP switches

Accessories for front mounting

						3LD22 (32 A)		3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Switching con	tacts for N conductor (4th contact)									
43	Contacts		Article No.								
	Leading switch-on,		3LD9220-0B		•	•					
	lagging switch-off		3LD9250-0BA								
			3LD9280-0B						•		
			3LD9240-0B							•	-
N/PE terminal	5										
64	Contacts		Article No.								
	Through-type		3LD9200-2B								
: 19			3LD9220-2B		•	•					
			3LD9250-2BA								
			3LD9280-2B					•	•		
			3LD9240-2B								-
Auxiliary swit	ches										
	For mounting on theLagging switch-on, leading switch-off	e left and/or right									
EIE O	Contacts	Contact surface	Article No.								
	1 NO + 1 NC	Standard	3LD9200-5B		-		-		-		
		Gold-plated	3LD9200-5BF				-				
Rotary operat	ing mechanisms										
	 Lockable in 0 positio with up to 3 padlock 										
	Version	Mounting	Article No.								
	For main control	Center-hole mounting	3LD9224-1D		-						
	switches		3LD9284-1D								
		Four-hole mounting	3LD9224-1B								
			3LD9284-1B				-	•	•		
	For EMERGENCY-STOP	Center-hole mounting	3LD9224-3D		_						
	switches	g	3LD9284-3D	_	_						
18		Four-hole mounting	3LD9224-3B				_				
			3LD9284-3B								
Knob-operate	d mechanisms										
-111	 Lockable in 0 positio with up to 3 padlock 										
	Version	Mounting	Article No.								
	For main control switches	Four-hole mounting	3LD9243-1B							•	•
	For EMERGENCY-STOP switches	Four-hole mounting	3LD9243-3B							•	•

							3LD27 (100 A)	3LD28 (125 A)	3LD23 (160 A)	3LD24 (250 A)
Terminal cove	rs									
	Pack of 4 units									
	Number of poles	Article No.								
	1-pole	3LD9201-2A								
		3LD9221-2A		•						
100		3LD9251-2A				•				
0		3LD9281-2A								
		3LD9241-2A							-	•
MARIA	3-pole	3LD9221-0A		-						
		3LD9251-0A				•				
	4-pole	3LD9201-1A	•							
Inscription lab	els									
*	Pack of 10 units									
MAIN SWITCH HAUPTSCHALTER	Inscription	Article No.								
HAUPTSCHALT	German / English (Hauptschalter / Main Switch)	3LD9286-1A		•		•		•		
	Without inscription	3LD9286-4A		•		•		•		
Assembly tool	s									
	For center-hole mounting with nutPack of 5 units									
	Version	Article No.								
	For main control switches and EMERGENCY-STOP switches	3LD9256-0A	•	•	•	•				

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3LD2 main control switches

Floor mounting, 25 ... 50 kA_{rms}



Operating mechanisms, black

Number of poles 3P



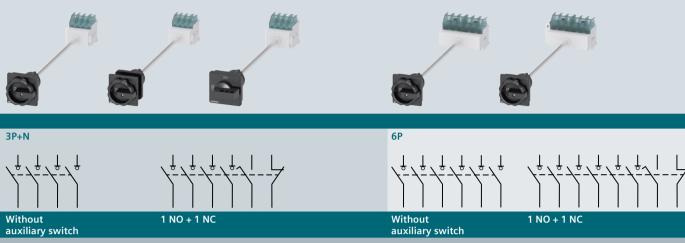


At AC-21A, 380 440 V	At AC-23A, 380 440 V	At AC-3A, 380 440 V	without auxiliary switch	1 NO + 1 NC
Door-coupling rotary operat	ting mechanism, four-hole mou	unting		
16 A	7.5 kW	5.5 kW	3LD2013-0TK51	3LD2013-0TK51 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2113-0TK51	3LD2113-0TK51 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2213-0TK51	3LD2213-0TK51 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2514-0TK51	3LD2514-0TK51 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2714-0TK51	3LD2714-0TK51 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2814-0TK51	3LD2814-0TK51 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2318-0TK11	3LD2318-0TK11 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2418-0TK11	3LD2418-0TK11 + 3LD9200-5C
Door-coupling rotary operat	ting mechanism, center-hole m	ounting Ø 22.5 mm		
16 A	7.5 kW	5.5 kW	3LD2044-0TK51	3LD2044-0TK51 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2144-0TK51	3LD2144-0TK51 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2244-0TK51	3LD2244-0TK51 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2545-0TK51	3LD2545-0TK51 + 3LD9200-5C
Defeatable door-coupling ki	nob-operated mechanism, four	r-hole mounting		
16 A	7.5 kW	5.5 kW	3LD2017-0TK11	3LD2017-0TK11 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2217-0TK11	3LD2217-0TK11 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2517-0TK11	3LD2517-0TK11 + 3LD9200-5C

- Including terminal covers for the infeed side
 Up to 125 A with integrated tolerance compensation

Mounting:
• Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

Accessories, see page 8/30



Without auxiliary switch	1 NO + 1 NC		Without auxiliary switch	1 NO + 1 NC
3LD2013-1TL51	3LD2013-1TL51	+ 3LD9200-5C	_	-
3LD2113-1TL51	3LD2113-1TL51	+ 3LD9200-5C	3LD2113-3VK51	3LD2113-4VP51
3LD2213-1TL51	3LD2213-1TL51	+ 3LD9200-5C	-	-
3LD2514-1TL51	3LD2514-1TL51	+ 3LD9200-5C	-	-
3LD2714-0TK51 + 3LD9280-0C	3LD2714-0TK51 + 3LD9280-0C	+ 3LD9200-5C	-	-
3LD2814-0TK51 + 3LD9280-0C	3LD2814-0TK51 + 3LD9280-0C	+ 3LD9200-5C	-	-
3LD2318-1TL11	3LD2318-1TL11	+ 3LD9200-5C	3LD2318-3VK11	3LD2318-3VK11 + 3LD9200-5C
3LD2418-1TL11	3LD2418-1TL11	+ 3LD9200-5C	3LD2418-3VK11	3LD2418-3VK11 + 3LD9200-5C
3LD2044-1TL51	3LD2044-1TL51	+ 3LD9200-5C	-	-
3LD2144-1TL51	3LD2144-1TL51	+ 3LD9200-5C	-	-
3LD2244-1TL51	3LD2244-1TL51	+ 3LD9200-5C	-	-
3LD2545-0TK51 + 3LD9250-0CA	3LD2545-0TK51 + 3LD9250-0CA	+ 3LD9200-5C	-	-
3LD2017-1TL11	3LD2017-1TL11 + 3LD9200-5C		-	-
3LD2217-1TL11	3LD2217-1TL11 + 3LD9200-5C		-	-
3LD2517-1TL11	3LD2517-1TL11 + 3LD9200-5C		_	-

3LD2 EMERGENCY-STOP switches

Floor mounting, 25 ... 50 kA_{rms}



Operating mechanisms, red/yellow

Number of poles 3P



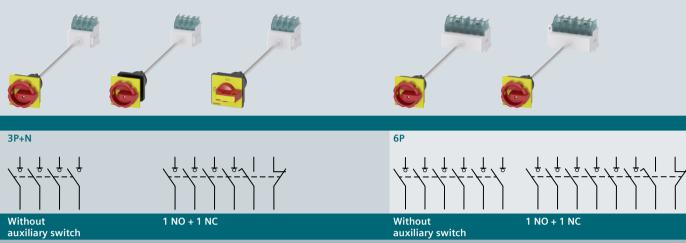


Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC
Door-coupling rotary operat	ting mechanism, four-hole mou	unting		
16 A	7.5 kW	5.5 kW	3LD2013-0TK53	3LD2013-0TK53 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2113-0TK53	3LD2113-0TK53 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2213-0TK53	3LD2213-0TK53 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2514-0TK53	3LD2514-0TK53 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2714-0TK53	3LD2714-0TK53 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2814-0TK53	3LD2814-0TK53 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2318-0TK13	3LD2318-0TK13 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2418-0TK13	3LD2418-0TK13 + 3LD9200-5C
Door-coupling rotary operat	ting mechanism, center-hole m	ounting Ø 22.5 mm		
16 A	7.5 kW	5.5 kW	3LD2044-0TK53	3LD2044-0TK53 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2144-0TK53	3LD2144-0TK53 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2244-0TK53	3LD2244-0TK53 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2545-0TK53	3LD2545-0TK53 + 3LD9200-5C
Defeatable door-coupling kr	nob-operated mechanism, four	r-hole mounting		
16 A	7.5 kW	5.5 kW	3LD2017-0TK13	3LD2017-0TK13 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2217-0TK13	3LD2217-0TK13 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2517-0TK13	3LD2517-1TL13 + 3LD9200-5C

- Including terminal covers for the infeed side
 Up to 125 A with integrated tolerance compensation

• Up to 125 A using screws or snap-on mounting on 35 mm mounting rails

Accessories, see page 8/30



Without auxiliary switch	1 NO + 1 NC		Without auxiliary switch	1 NO + 1 NC
3LD2013-1TL53	3LD2013-1TL53	+ 3LD9200-5C	-	-
3LD2113-1TL53	3LD2113-1TL53	+ 3LD9200-5C	3LD2113-3VK53	3LD2113-4VP53
3LD2213-1TL53	3LD2213-1TL53	+ 3LD9200-5C	-	-
3LD2514-1TL53	3LD2514-1TL53	+ 3LD9200-5C	-	-
3LD2714-0TK53 + 3LD9280-0C	3LD2714-0TK53 + 3LD9280-0C	+ 3LD9200-5C	_	-
3LD2814-0TK53 + 3LD9280-0C	3LD2814-0TK53 + 3LD9280-0C	+ 3LD9200-5C	_	-
3LD2318-1TL13	3LD2318-1TL13	+ 3LD9200-5C	3LD2318-3VK13	3LD2318-3VK13 + 3LD9200-5C
3LD2418-1TL13	3LD2418-1TL13	+ 3LD9200-5C	3LD2418-3VK13	3LD2418-3VK13 + 3LD9200-5C
3LD2044-1TL53	3LD2044-1TL53	+ 3LD9200-5C	-	-
3LD2144-1TL53	3LD2144-1TL53	+ 3LD9200-5C	-	-
3LD2244-1TL53	3LD2244-1TL53	+ 3LD9200-5C	-	-
3LD2545-0TK53 + 3LD9250-0CA	3LD2545-0TK53 + 3LD9250-0CA	+ 3LD9200-5C	-	_
3LD2017-1TL13	3LD2017-1TL13 + 3LD9200-5C		-	-
3LD2217-1TL13	3LD2217-0TK13 + 3LD9200-5C		-	-
3LD2517-1TL13	3LD2517-1TL13 + 3LD9200-5C		-	-

3LD2 main control and EMERGENCY-STOP switches

Accessories for floor mounting

									3LD28 (125 A)		
Switching co	ntacts for N conductor ((4th contact)									
	Contacts Leading switch-on, lagging switch-off		Article No. 3LD9220-0C 3LD9250-0CA 3LD9280-0C		•	•					
			3LD9240-0C							•	
N/PE termina											
	Contacts Through-type		Article No. 3LD9200-2C 3LD9220-2C 3LD9250-2CA 3LD9280-2C	•	•						
			3LD9240-2C								•
Auxiliary swit											
	 For mounting on the Lagging switch-on, leading switch-off 	e left and/or right									
17 30	Contacts	Contact surface	Article No.								
(A)	1 NO + 1 NC	Standard	3LD9200-5C	-	-	-	-	-	•	-	-
		Gold-plated	3LD9200-5CF	-	-	•	-	•	•	-	•
	2 NO	Standard	3LD9200-6C	_	•	•	•	•	•	•	•
Rotary operat	ting mechanisms		_								
	 Lockable in 0 positio with up to 3 padlock 										
	Version	Mounting	Article No.								
1	For main control switches	Center-hole mounting	3LD9224-1D 3LD9284-1D	•	•	•					
		Four-hole mounting	3LD9224-1B 3LD9284-1B	•	•	•					
	For EMERGENCY-STOP switches	Center-hole mounting	3LD9224-3D 3LD9284-3D	•	٠	•					
		Four-hole mounting	3LD9224-3B 3LD9284-3B	•	•	•					
Knob-operate	ed mechanisms										
I o	Lockable in 0 positio with up to 3 padlock										
• [10]	Version	Mounting	Article No.								
	For main control switches	Four-hole mounting	3LD9243-1B							•	•
	For EMERGENCY-STOP switches		3LD9243-3B							•	•
8UC7 door-	coupling rotary operati	-									
	To achieve defeatable 3LD27 (100 A) to 3L	D24 (250 A)									
	Type	Version	Article No.								
	8UC71	Standard EMERGENCY-STOP	8UC7110-1BB 8UC7120-3BB								
	8UC72	Standard	8UC7210-1BB					-	_		_
		EMERGENCY-STOP	8UC7220-3BB								

									3LD28 (125 A)		
Coupling drive	ers										
	Version		Article No.								
1/2	For 8UC71 door-coup rotary operating med		8UC6011					•	•		
	For 8UC72 door-coup rotary operating med		8UC6012							•	•
Switching sha	fts										
773	Cross-section	Length	Article No.								
////	6 × 6 mm	300 mm	3LD9205-0C		-	-	-		-		
		600 mm	3LD9205-2C		-				-		
	8 × 8 mm	300 mm	3LD9245-0C							-	
		600 mm	3LD9245-2C								
Coupling piece	es										
	Without ON-lock										
1			Article No.								
8 ■ 9			3LD9242-4F								
82/											
Tamainal acus											
Terminal cove	Pack of 4 units			_		_		_			_
			Austria Na								
4 2	Number of poles		Article No.	_							
	1-pole		3LD9201-2A	•	_						
			3LD9221-2A		-	•	_				
0			3LD9251-2A				-	_	_		
			3LD9281-2A					-	-	_	
	2 1		3LD9241-2A			_				-	
MA	3-pole		3LD9221-0A		-	-	_				
			3LD9251-0A				•				
	4-pole		3LD9201-1A	•							
Inscription lab	els										
1	Pack of 10 units										
MAIN SWITCH MAIN SCHALTER	Inscription		Article No.								
MAIN SWITCH HAUPTSCHALTER	German / English (Ha	auptschalter / Main Switch)	3LD9286-1A				-				
HAC	Without inscription		3LD9286-4A								
Assembly tool	s										
	For center-hole mPack of 5 units	nounting with nut									
	Version		Article No.								
	For main control swi switches	tches and EMERGENCY-STOP	3LD9256-0A	•	•	•	•				

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3LD2 main control switches

Installation in distribution boards, 25 ... 50 kA_{rms}



Operating mechanisms, black

Number of poles 3P



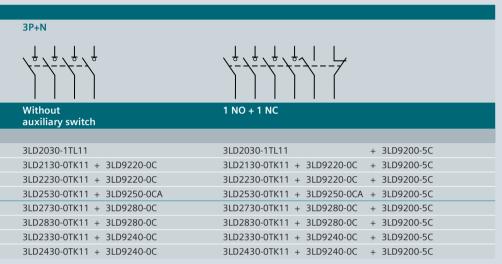


Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC
Knob-operated mechanisms	with masking plate			
16 A	7.5 kW	5.5 kW	3LD2030-0TK11	3LD2030-0TK11 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-0TK11	3LD2130-0TK11 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-0TK11	3LD2230-0TK11 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-0TK11	3LD2530-0TK11 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-0TK11	3LD2730-0TK11 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-0TK11	3LD2830-0TK11 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-0TK11	3LD2330-0TK11 + 3LD9200-5C
250 A	132 kW	110 kW	3I D2430-0TK11	3LD2430-0TK11 + 3LD9200-5C

- Scope of supply:
 3LD23/3LD24 including terminal covers for the infeed side
- Mounting:
 Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

Accessori	es					 	3LD27 (100 A)		3LD23 (160 A)	3LD24 (250 A)
Switching c	ontacts for N conductor	r (4th contact)								
13	Contacts		Article No.							
	Leading switch-on,		3LD9220-0C							
1 1	lagging switch-off		3LD9250-0CA							
			3LD9280-0C							
* *			3LD9240-0C							
N/PE termin	als									
1-3	Contacts		Article No.							
	Through-type		3LD9200-2C							
			3LD9220-2C							
			3LD9250-2CA			-				
* *			3LD9280-2C							
			3LD9240-2C							
Auxiliary sv	vitches									
	For mounting on tlLagging switch-on, leading switch-off									
Esta d	Contacts	Contact surface	Article No.							
6	1 NO + 1 NC	Standard	3LD9200-5C	-	-	-	-		-	•
		Gold-plated	3LD9200-5CF		-	-		-		
	2 NO	Standard	3LD9200-6C	-	-	-	-	-	-	•





							3LD23 (160 A)	
Terminal cove	rs							
	Pack of 4 units							
	Number of poles	Article No.						
	1-pole	3LD9201-2A						
		3LD9221-2A						
0		3LD9251-2A						
0		3LD9281-2A				•		
		3LD9241-2A						
ALI A	3-pole	3LD9221-0A		•				
		3LD9251-0A			•			
	4-pole	3LD9201-1A	•					

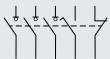
3LD2 EMERGENCY-STOP switches

Installation in distribution boards, 25 ... 50 kA_{rms}



Operating mechanisms, red/yellow

Number of poles 3P



Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Without auxiliary switch	1 NO + 1 NC
Knob-operated mechanisms	with masking plate			
16 A	7.5 kW	5.5 kW	3LD2030-0TK13	3LD2030-0TK13 + 3LD9200-5C
25 A	9.5 kW	7.5 kW	3LD2130-0TK13	3LD2130-0TK13 + 3LD9200-5C
32 A	11.5 kW	9.5 kW	3LD2230-0TK13	3LD2230-0TK13 + 3LD9200-5C
63 A	22 kW	18.5 kW	3LD2530-0TK13	3LD2530-0TK13 + 3LD9200-5C
100 A	37 kW	30 kW	3LD2730-0TK13	3LD2730-0TK13 + 3LD9200-5C
125 A	45 kW	37 kW	3LD2830-0TK13	3LD2830-0TK13 + 3LD9200-5C
160 A	75 kW	50 kW	3LD2330-0TK13	3LD2330-0TK13 + 3LD9200-5C
250 A	132 kW	110 kW	3LD2430-0TK13	3LD2430-0TK13 + 3LD9200-5C

- Scope of supply:
 3LD23/3LD24 including terminal covers for the infeed side Mounting:
- Up to 125 A using screws or snap-on mounting on 35 mm mounting rails
- Up to 125 A cap and mounting dimensions acc. to DIN 43880

Accessori	ies					3LD27 (100 A)		3LD23 (160 A)	3LD24 (250 A)		
Switching c	ontacts for N conducto	r (4th contact)									
13	Contacts	Article No.									
	Leading switch-on,		3LD9220-0C								
	lagging switch-off		3LD9250-0CA								
			3LD9280-0C								
* *			3LD9240-0C								
N/PE termin	nals										
1-3	Contacts		Article No.								
	Through-type	3LD9200-2C									
		3LD9220-2C									
		3LD9250-2CA									
* *		3LD9280-2C									
		3LD9240-2C									
Auxiliary sv	vitches										
	For mounting on tLagging switch-or leading switch-off	1,									
Esta d	Contacts	Contact surface	Article No.								
(A)	1 NO + 1 NC	Standard	3LD9200-5C		-		-			-	
		Gold-plated	3LD9200-5CF		-				-		
	2 NO	Standard	3LD9200-6C	-	-	-	-	-	-	-	•





							3LD28 (125 A)	
Terminal cove	rs							
	Pack of 4 units							
	Number of poles	Article No.						
	1-pole	3LD9201-2A						
		3LD9221-2A		•				
0		3LD9251-2A						
0		3LD9281-2A					•	
		3LD9241-2A						
ARR A	3-pole	3LD9221-0A		•	•			
Mary		3LD9251-0A				•		
	4-pole	3LD9201-1A	•					

3LD2 main control switches

Molded-plastic enclosure, 25 ... 50 kA_{rms}





Operating mechanisms, black

Number of poles 3P







Uninterrupted current I _u At AC-21A, 380 440 V	Operational power P At AC-23A, 380 440 V	Operational power P At AC-3A, 380 440 V	Witho auxilia	ut ıry switch	1 NO -	+ 1 NC	Witho auxilia	ut ary switch
Knob-operated with masking p			Base termin	al	Base termir	nal	Base termin	al
16 A	7.5 kW	5.5 kW	PE+N	3LD2064-0TB51	N	3LD2064-1GP51	PE	3LD2064-1TC51
25 A	9.5 kW	7.5 kW	PE+N	3LD2164-0TB51	N	3LD2164-1GP51	PE	3LD2164-1TC51
32 A	11.5 kW	9.5 kW	PE+N	3LD2264-0TB51	N	3LD2264-1GP51	PE	3LD2264-1TC51
63 A	22 kW	18.5 kW	PE+N	3LD2565-0TB51	N	3LD2565-1GP51	PE	3LD2565-1TC51
100 A	37 kW	30 kW	PE+N	3LD2766-0TB51	N	3LD2766-1GP51	PE+N	3LD2766-0TB51 + 3LD9280-0C
125 A	45 kW	37 kW	PE+N	3LD2866-0TB51	N	3LD2866-1GP51	PE+N	3LD2866-0TB51 + 3LD9280-0C

Accessories

3LD20 3LD21 3LD22 3LD25 3LD27 3LD28 3LD23 3LD24 (16 A) (25 A) (32 A) (63 A) (100 A) (125 A) (160 A) (250 A)

Accessor	163			(10 A)	(25 A)	(32 A)	(03 A)	(100 A)	(125 A)	(100 A)	(250 F
Switching	contacts for N conduct	or (4th contact)									
	Contacts		Article No.								
	Leading switch-on,	3LD9220-0C		-							
1 1	lagging switch-off	3LD9250-0CA				-					
		3LD9280-0C									
* *		3LD9240-0C								-	
N/PE termi	nals										
13	Contacts		Article No.								
	Through-type		3LD9200-2C	-							
					-	•					
. 1							-				
7		3LD9280-2C									
			3LD9240-2C								
Auxiliary s	witches										
	For mounting onLagging switch-ofleading switch-of										
THE STREET	Contacts	Contact surface	Article No.								
-	1 NO + 1 NC	Standard	3LD9200-5C								-
		Gold-plated	3LD9200-5CF								-
	2 NO	Standard	3LD9200-6C	-	-		-	-			
Rotary ope	erating mechanisms										
1		Lockable in 0 position with up to 3 padlocks									
9	Version	Mounting	Article No.								
	For main control	Center-hole mounting	3LD9224-1D		-	-					
	switches		3LD9284-1D								





3LD2 EMERGENCY-STOP switches

Molded-plastic enclosure, 25 ... 50 kA_{rms}

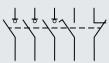




Operating mechanisms, red/yellow

Number of poles 3P







Q A	Uninterrupted Operational Operational current I _u power P power P At AC-21A, At AC-23A, At AC-3A,		Withou auxilia	ıt ry switch	1 NO +	1 NC	Without auxiliary switch				
k	380 440 V (nob-operated i vith masking pl		380 440 V	Base termina	al	Base termina	al	Base termina	al		
1	6 A	7.5 kW	5.5 kW	PE+N	3LD2064-0TB53	N	3LD2064-1GP53	PE	3LD2064-1TC53		
2	25 A	9.5 kW	7.5 kW	PE+N	3LD2164-0TB53	N	3LD2164-1GP53	PE	3LD2164-1TC53		
3	32 A	11.5 kW	9.5 kW	PE+N	3LD2264-0TB53	N	3LD2264-1GP53	PE	3LD2264-1TC53		
6	53 A	22 kW	18.5 kW	PE+N	3LD2565-0TB53	N	3LD2565-1GP53	PE	3LD2565-1TC53		
1	00 A	37 kW	30 kW	PE+N	3LD2766-0TB53	N	3LD2766-1GP53	PE+N	3LD2766-0TB53 + 3LD9280-0C		
1	25 A	45 kW	37 kW	PE+N	3LD2866-0TB53	N	3LD2866-1GP53	PE+N	3LD2866-0TB53 + 3LD9280-0C		

Accessorie	s					3LD27 (100 A)		3LD23 (160 A)			
Switching cor											
10	Contacts	Article No.									
	Leading switch-on,	3LD9220-0C									
: [9]	lagging switch-off	3LD9250-0CA				•					
		3LD9280-0C						•			
		3LD9240-0C									
N/PE terminal	s										
	Contacts		Article No.								
	Through-type		3LD9200-2C	-							
: 9		3LD9220-2C		-							
		3LD9250-2CA				•					
			3LD9280-2C					•	•		
			3LD9240-2C							•	-
Auxiliary swit											
	 For mounting on the Lagging switch-on, leading switch-off 	e left and/or right									
THE STATE OF	Contacts	Contact surface	Article No.								
(C)	1 NO + 1 NC	Standard	3LD9200-5C		-		-		•		-
		Gold-plated	3LD9200-5CF				-			•	
	2 NO	Standard	3LD9200-6C		•		•		•	•	
Rotary operating mechanisms											
- Sec.	Lockable in 0 position with up to 3 padlocks										
18	Version	Mounting	Article No.								
	For EMERGENCY-STOP	Center-hole mounting	3LD9224-3D		•	-					
	switches	3LD9284-3D				•					





3LD2 main control switches

DC isolators, 50 kA_{rms}



Number of poles 8P

Operating mechanisms, black

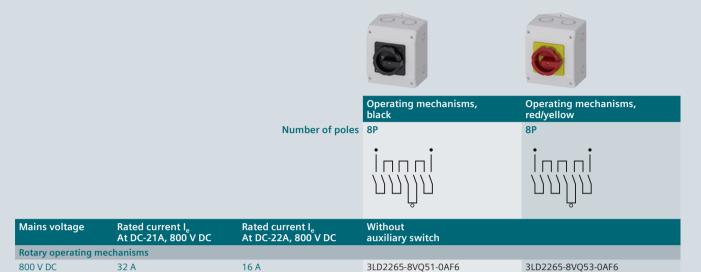


Mains voltage	Rated current I _e At DC-21A, 800 V DC	Rated current I _e At DC-22A, 800 V DC	Without auxiliary switch
Knob-operated me	chanisms		
800 V DC	32 A	16 A	3LD2230-8VQ11-0AF6

System overview, page 8/18

3LD2 main control and EMERGENCY-STOP switches

DC isolators in a molded-plastic enclosure, 50 kA_{rms}



3LD2 main control and EMERGENCY-STOP switches

Accessories

Additional	poles								3LD28 (125 A)		
Switching co	ntacts for N conductor ((4th contact)									
1-1	Version	Contacts	Article No.								
	For front mounting	Leading switch-on,	3LD9220-0B								
16		lagging switch-off	3LD9250-0BA								
- 1			3LD9280-0B								
* *			3LD9240-0B								_
1.2	For floor mounting,	Leading switch-on,	3LD9220-0C		_						
6	installation in	lagging switch-off	3LD9250-0CA								
1 16	distribution boards		3LD9280-0C				_				
. 2	and molded-plastic		3LD9240-0C						_		
1	enclosure		3LD 72 + 0 0 C								
N/PE termina	ls										
	Version	Contacts	Article No.								
	For front mounting	Through-type	3LD9200-2B								
: 19			3LD9220-2B								
			3LD9250-2BA								
* *			3LD9280-2B								
			3LD9240-2B								
1-3	For floor mounting,	Through-type	3LD9200-2C								
	installation in	J , , .	3LD9220-2C								
1	distribution boards		3LD9250-2CA			_					
. 7	and molded-plastic		3LD9280-2C				_		-		
2. 1	enclosure		3LD9240-2C					_	_		_
Auxiliary swit	tches		3LD 92 +0-2C							_	_
,	 For mounting on the Lagging switch-on, leading switch-off 	e left and/or right									
(0)	Version	Contacts	Article No.								
0	For front mounting	1 NO + 1 NC, standard	3LD9200-5B								-
		1 NO + 1 NC, gold-plated	3LD9200-5BF	•	•	•	•	•	•	•	•
9	For floor mounting,	1 NO + 1 NC, standard	3LD9200-5C						-		-
6	installation in	1 NO + 1 NC, gold-plated	3LD9200-5CF								
	distribution boards and molded-plastic enclosure	2 NO, standard	3LD9200-6C	•	•	•	•	•	•	•	•
	mechanisms								3LD28 (125 A)		
Rotary operat	ting mechanisms										
	 Lockable in 0 positio with up to 3 padlock Center-hole mountir including seal and notes Four-hole mounting, including seal 	s ng, ut									
	Switch	Mounting	Article No.								
	For main control switches	Center-hole mounting	3LD9224-1D 3LD9284-1D	•	•	•					
		Four-hole mounting	3LD9224-1B 3LD9284-1B	•	•	•	•		•		
	For EMERGENCY-STOP switches	Center-hole mounting	3LD9224-3D 3LD9284-3D	-	•	•					
		Four-hole mounting	3LD9224-3B 3LD9284-3B	•	•	•					

Operating I	mechanisms	Operating mechanisms								3LD28 (125 A)		
Knob-operate	d mechanisms											
i or	Lockable in 0 positio with up to 3 padlockIncluding seal											
	Switch	Mounting		Article No.								
	For main control switches	Four-hole mou		3LD9243-1B							•	•
	For EMERGENCY-STOP switches	Four-hole mou	ınting	3LD9243-3B							•	•
Switching sha	fts											
///	Version	Cross-section	Length	Article No.								
////	For floor mounting	6 × 6 mm	300 mm	3LD9205-0C			•			•		
			600 mm	3LD9205-2C								
		8 × 8 mm	300 mm	3LD9245-0C								
			600 mm	3LD9245-2C							-	-
Coupling piece	es											
	Without ON-lock											
J	Version			Article No.								
	For floor mounting			3LD9242-4F								
12/												
				21 D20	21 D21	21 D22	21 D2E	21 D27	3LD28	21 D22	21 D24	
Other acces	Other accessories									(125 A)		
Terminal cove	rc											
Terrimar cove	Pack of 4 units											
	Number of poles			Article No.								_
4 4	1-pole			3LD9201-2A								_
	, poic			3LD9221-2A								
				3LD9251-2A		_		-				
0				3LD9281-2A				_				
				3LD9241-2A								
MIII	3-pole			3LD9221-0A								
	•			3LD9251-0A								
ماماما												
42221	4-pole			3LD9201-1A	-							
20000		4-pole										
Inscription lab	pels	_									_	
Inscription lab	els • Pack of 10 units	_	_		-	_		_	_	_	-	-
	Pack of 10 units	-		Article No.								
	• Pack of 10 units Inscription	otschalter / Main	Switch)	Article No. 3LD9286-1A		_		-		-		
*	Pack of 10 units	otschalter / Main	Switch)	Article No. 3LD9286-1A 3LD9286-4A		:	:	:	:	:		
	• Pack of 10 units Inscription German / English (Haup Without inscription	otschalter / Main	Switch)	3LD9286-1A								
MAIN SWITCH HAUPTSCHALTER	• Pack of 10 units Inscription German / English (Haup Without inscription		Switch)	3LD9286-1A								
MAIN SWITCH MAUPTSCHALTER HAUPTSCHALTER	Pack of 10 units Inscription German / English (Haup Without inscription s For center-hole mou Pack of 5 units		Switch)	3LD9286-1A 3LD9286-4A								
MAIN SWITCH MAUPTSCHALTER HAUPTSCHALTER	Pack of 10 units Inscription German / English (Haup Without inscription s For center-hole mou	nting with nut		3LD9286-1A								

System overview

Complete assemblies with direct operating mechanisms



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole

Basic units



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Lateral operating mechanisms, 3-pole



Lateral operating mechanisms, 4-pole



Front-mounted devices, 6-pole for DC applications

Additional poles and auxiliary switch modules



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



Handles for door-coupling







Other accessories for door-coupling rotary operating mechanisms rotary operating mechanisms

Other accessories and spare parts



Auxiliary switches



Terminal covers



Phase barriers



Blocking pin test function



Mounting elements

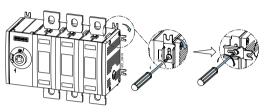


Accessories for DC applications



Types of mounting

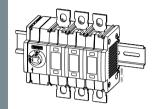
Floor mounting



All 3KD switch disconnectors are designed for floor mounting. To ensure that the switch can be flexibly adapted to the relevant installation conditions, the mounting bracket can be rotated through 90° with size 3 or larger.

You will find further information under

Standard mounting rail

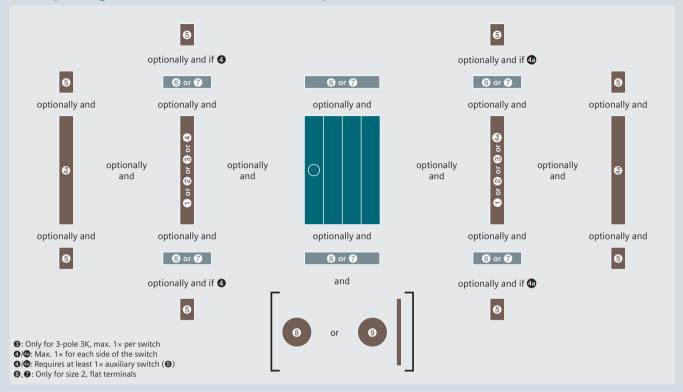


Sizes 1 and 2 can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.

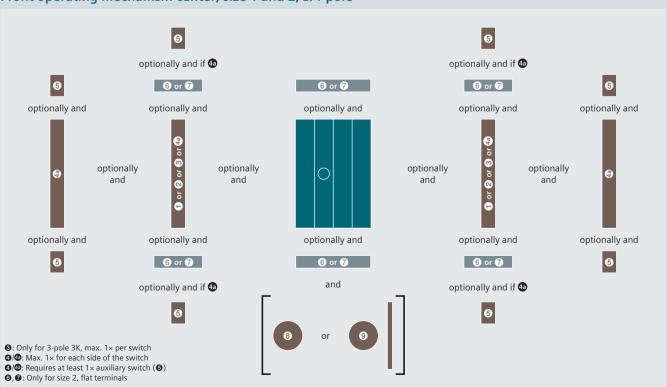
Siemens LV 10 · 10/2019

Mounting concept and accessories

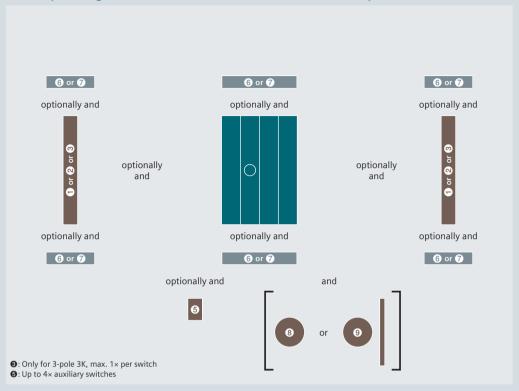
Front operating mechanism left, sizes 1 and 2, 3/4-pole



Front operating mechanism center, size 1 and 2, 3/4-pole



Front operating mechanism center or left, sizes 3 to 5, 3/4-pole

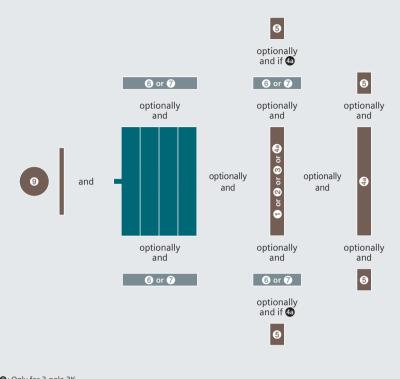


Legend

- 1 Neutral conductor terminal
- N/PE terminal
- **3** 4th contact element
- Auxiliary switch module, version with test function and version with leading NO contact and test function
- 4 Auxiliary switch module for auxiliary switches, standard version
- 6 Auxiliary switch
- 6 Phase barrier
- Terminal cover
- B Direct operating mechanism
- Door-coupling rotary operating mechanism

Mounting concept and accessories

Lateral operating mechanism left, sizes 1 and 2, 3/4-pole

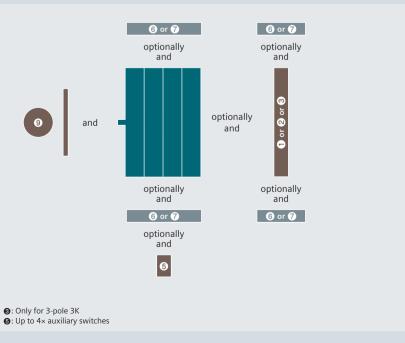


- 3: Only for 3-pole 3K
- : Max. 1× per switch
- (6): Requires at least 1× auxiliary switch
- **⑥**, **⑦**: Only for size 2, flat terminals

Legend

- Neutral conductor terminal
- N/PE terminal
- **3** 4th contact element
- Auxiliary switch module for auxiliary switches, standard version
- 6 Auxiliary switch
- 6 Phase barrier
- Terminal cover
- 9 Door-coupling rotary operating mechanism

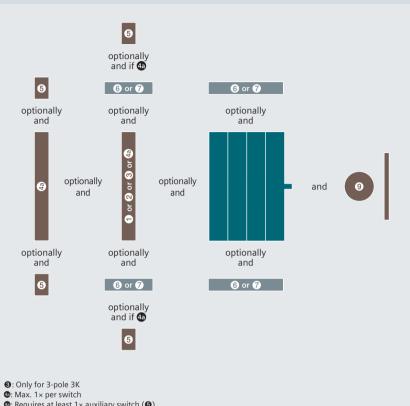
Lateral operating mechanism left, sizes 3 to 5, 3/4-pole



Legend

- O Neutral conductor terminal
- N/PE terminal
- 4th contact element
- Auxiliary switch
- 0 Phase barrier
- Terminal cover
- Door-coupling rotary operating mechanism

Lateral operating mechanism right, sizes 1 and 2, 3/4-pole

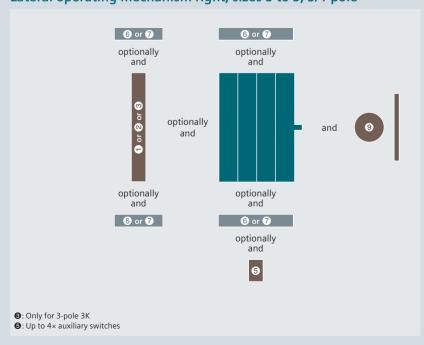


- **(6)** Requires at least 1× auxiliary switch (6) **(6)** Only for size 2, flat terminals

Legend

- Neutral conductor terminal
- N/PE terminal
- 4th contact element
- Auxiliary switch module for auxiliary switches, standard version
- Auxiliary switch
- Phase barrier
- Terminal cover
- Door-coupling rotary operating mechanism

Lateral operating mechanism right, sizes 3 to 5, 3/4-pole



Legend

- Neutral conductor terminal
- N/PE terminal
- 4th contact element
- Auxiliary switch
- 0 Phase barrier
- Terminal cover
- Door-coupling rotary operating mechanism











	Complete assemblies wi direct operating mechai	ith nisms	Basic units without handle						
	Front operating mechar Left	nism	Front operating mecha Left	Center					
Number of poles	3P	4P	3P	4P	3P				

Uninterrupte	nd				
current l _u	su .				
nals					
16 A	3KD1632-2ME10-0	3KD1642-2ME10-0	3KD1630-2ME10-0	3KD1640-2ME10-0	3KD1630-2ME20-0
32 A	3KD2232-2ME10-0	3KD2242-2ME10-0	3KD2230-2ME10-0	3KD2240-2ME10-0	3KD2230-2ME20-0
63 A	3KD2632-2ME10-0	3KD2642-2ME10-0	3KD2630-2ME10-0	3KD2640-2ME10-0	3KD2630-2ME20-0
80 A	3KD2832-2NE10-0	3KD2842-2NE10-0	3KD2830-2NE10-0	3KD2840-2NE10-0	3KD2830-2NE20-0
100 A	3KD3032-2NE10-0	3KD3042-2NE10-0	3KD3030-2NE10-0	3KD3040-2NE10-0	3KD3030-2NE20-0
125 A	3KD3232-2NE10-0	3KD3242-2NE10-0	3KD3230-2NE10-0	3KD3240-2NE10-0	3KD3230-2NE20-0
160 A	3KD3432-2NE10-0	3KD3442-2NE10-0	3KD3430-2NE10-0	3KD3440-2NE10-0	3KD3430-2NE20-0
nals					
80 A	3KD2832-0NE10-0	3KD2842-0NE10-0	3KD2830-0NE10-0	3KD2840-0NE10-0	3KD2830-0NE20-0
100 A	3KD3032-0NE10-0	3KD3042-0NE10-0	3KD3030-0NE10-0	3KD3040-0NE10-0	3KD3030-0NE20-0
125 A	3KD3232-0NE10-0	3KD3242-0NE10-0	3KD3230-0NE10-0	3KD3240-0NE10-0	3KD3230-0NE20-0
160 A	3KD3432-0NE10-0	3KD3442-0NE10-0	3KD3430-0NE10-0	3KD3440-0NE10-0	3KD3430-0NE20-0
200 A	3KD3632-0NE10-0	3KD3642-0NE10-0	3KD3630-0NE10-0	3KD3640-0NE10-0	3KD3630-0NE20-0
200 A	3KD3632-0PE10-0	3KD3642-0PE10-0	3KD3630-0PE10-0	3KD3640-0PE10-0	3KD3630-0PE20-0
250 A	3KD3832-0PE10-0	3KD3842-0PE10-0	3KD3830-0PE10-0	3KD3840-0PE10-0	3KD3830-0PE20-0
315 A	3KD4032-0PE10-0	3KD4042-0PE10-0	3KD4030-0PE10-0	3KD4040-0PE10-0	3KD4030-0PE20-0
400 A	3KD4232-0PE10-0	3KD4242-0PE10-0	3KD4230-0PE10-0	3KD4240-0PE10-0	3KD4230-0PE20-0
500 A	3KD4432-0QE10-0	3KD4442-0QE10-0	3KD4430-0QE10-0	3KD4440-0QE10-0	3KD4430-0QE20-0
630 A	3KD4632-0QE10-0	3KD4642-0QE10-0	3KD4630-0QE10-0	3KD4640-0QE10-0	3KD4630-0QE20-0
800 A	3KD4832-0QE10-0	3KD4842-0QE10-0	3KD4830-0QE10-0	3KD4840-0QE10-0	3KD4830-0QE20-0
1000 A	3KD5032-0RE10-0	3KD5042-0RE10-0	3KD5030-0RE10-0	3KD5040-0RE10-0	3KD5030-0RE20-0
1250 A	3KD5232-0RE10-0	3KD5242-0RE10-0	3KD5230-0RE10-0	3KD5240-0RE10-0	3KD5230-0RE20-0
1600 A	3KD5432-0RE10-0	3KD5442-0RE10-0	3KD5430-0RE10-0	3KD5440-0RE10-0	3KD5430-0RE20-0
	16 A 32 A 63 A 80 A 100 A 125 A 160 A 100 A 125 A 160 A 200 A 200 A 250 A 315 A 400 A 500 A 630 A 800 A 1000 A	16 A 3KD1632-2ME10-0 32 A 3KD2232-2ME10-0 63 A 3KD2232-2ME10-0 80 A 3KD2832-2NE10-0 100 A 3KD3032-2NE10-0 160 A 3KD3232-2NE10-0 160 A 3KD3232-2NE10-0 160 A 3KD3232-2NE10-0 100 A 3KD3232-2NE10-0 100 A 3KD3232-0NE10-0 100 A 3KD3232-0NE10-0 125 A 3KD3232-0NE10-0 125 A 3KD3232-0NE10-0 200 A 3KD3632-0NE10-0 200 A 3KD3632-0PE10-0 200 A 3KD3632-0PE10-0 250 A 3KD3632-0PE10-0 250 A 3KD4432-0PE10-0 315 A 3KD4032-0PE10-0 500 A 3KD4432-0PE10-0 500 A 3KD4432-0PE10-0 500 A 3KD4432-0PE10-0 500 A 3KD4432-0PE10-0 500 A 3KD4632-0PE10-0 1000 A 3KD4832-0PE10-0 1000 A 3KD5032-0RE10-0 1250 A 3KD5032-0RE10-0	16 A 3KD1632-2ME10-0 3KD1642-2ME10-0 32 A 3KD2232-2ME10-0 3KD2242-2ME10-0 63 A 3KD2632-2ME10-0 3KD2642-2ME10-0 80 A 3KD2832-2NE10-0 3KD2842-2NE10-0 100 A 3KD3032-2NE10-0 3KD3042-2NE10-0 125 A 3KD3232-2NE10-0 3KD3442-2NE10-0 160 A 3KD3432-2NE10-0 3KD3442-2NE10-0 160 A 3KD3432-2NE10-0 3KD3442-2NE10-0 160 A 3KD3432-2NE10-0 3KD3442-2NE10-0 1100 A 3KD3032-0NE10-0 3KD3042-0NE10-0 125 A 3KD3032-0NE10-0 3KD3042-0NE10-0 125 A 3KD3232-0NE10-0 3KD3442-0NE10-0 125 A 3KD3432-0NE10-0 3KD3442-0NE10-0 200 A 3KD3632-0NE10-0 3KD3442-0NE10-0 200 A 3KD3632-0NE10-0 3KD3642-0NE10-0 200 A 3KD3632-0PE10-0 3KD3642-0PE10-0 315 A 3KD4032-0PE10-0 3KD3642-0PE10-0 315 A 3KD4032-0PE10-0 3KD4042-0PE10-0 315 A 3KD4632-0PE10-0 3KD4042-0PE10-0 315 A 3KD4632-0PE10-0 3KD4442-0PE10-0 3160 A 3KD4632-0PE10-0 3KD4442-0PE10-0 317 A 3KD4632-0PE10-0 3KD4442-0PE10-0 318 A 3KD4632-0PE10-0 3KD4442-0PE10-0 310 A 3KD4632-0PE10-0 3KD4442-0PE10-0	16 A 3KD1632-2ME10-0 3KD1642-2ME10-0 3KD1630-2ME10-0 32 A 3KD2232-2ME10-0 3KD2242-2ME10-0 3KD2230-2ME10-0 63 A 3KD2632-2ME10-0 3KD2642-2ME10-0 3KD2630-2ME10-0 80 A 3KD2832-2NE10-0 3KD2842-2NE10-0 3KD2830-2NE10-0 100 A 3KD3032-2NE10-0 3KD3042-2NE10-0 3KD3303-2NE10-0 125 A 3KD3232-2NE10-0 3KD3242-2NE10-0 3KD3230-2NE10-0 160 A 3KD3432-2NE10-0 3KD3442-2NE10-0 3KD3430-2NE10-0 1125 A 3KD3432-2NE10-0 3KD3442-2NE10-0 3KD3430-2NE10-0 1125 A 3KD3432-2NE10-0 3KD3442-2NE10-0 3KD3430-2NE10-0 1125 A 3KD3432-0NE10-0 3KD3442-2NE10-0 3KD3430-0NE10-0 1125 A 3KD3232-0NE10-0 3KD3242-0NE10-0 3KD3230-0NE10-0 1125 A 3KD3232-0NE10-0 3KD3242-0NE10-0 3KD3230-0NE10-0 1125 A 3KD3432-0NE10-0 3KD3442-0NE10-0 3KD3430-0NE10-0 1125 A 3KD32-0RE10-0 3KD3442-0NE10-0 3KD3430-0NE10-0 1125 A 3KD32-0RE10-0 3KD32-0RE10-0 3KD3230-0RE10-0 3KD3230-0RE10-0	16 A 3KD1632-2ME10-0 3KD1642-2ME10-0 3KD2640-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2230-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2230-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2240-2ME10-0 3KD2830-2ME10-0 3KD2840-2ME10-0 3KD2830-2ME10-0 3KD2840-2ME10-0 3KD3030-2ME10-0 3KD3040-2ME10-0 3KD3030-2ME10-0 3KD3040-2ME10-0 3KD3030-2ME10-0 3KD33040-2ME10-0 3KD33030-2ME10-0 3KD33030-2ME10-0 3KD33040-2ME10-0 3KD33030-2ME10-0 3KD3340-2ME10-0 3KD33430-2ME10-0 3KD33430-2ME10-0 3KD3440-2ME10-0 3KD3440-2ME10-0 3KD3430-2ME10-0 3KD3440-2ME10-0 3MD3440-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3KD3440-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3440-2ME10-0 3MD3440-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3440-2ME10-0 3MD3430-2ME10-0 3MD3430-2ME10-0 3MD3430-2ME10-0 3MD3430-2ME10-0 3MD3430-2ME10-0 3MD3430-2ME10-0 3M

Scope of supply:

- Incl. phase barriers for size 2 with flat terminals
- Terminal covers must be ordered separately for switch disconnectors with flat terminals and direct operating mechanisms.

Note

- The complete assemblies with a direct operating mechanism are not suitable for conversion to door-coupling rotary operating mechanisms; the basic units are to be used for this purpose.
- The basic units without handles are suitable for use with door-coupling rotary operating mechanisms or with direct operating mechanisms.
- · The switch disconnectors with lateral operating mechanism are suitable for door-coupling rotary operating mechanisms.
- For 3KD switch disconnectors and lateral operating mechanism (left or right), only 8UD door-coupling rotary operating mechanisms without the test function can be used.
- If door-coupling rotary operating mechanisms without "Test" are used on 3KD switch disconnectors, the test function must be mechanically blocked on the switch. The blocking pin required for this is included in the scope of supply of the 3KD switch disconnector.

Mounting:

• The switch disconnectors are designed for floor mounting; sizes 1 and 2 can optionally be mounted on standard mounting rails.













		Lateral operating mecha Left	anism	Right	
4P	6P for DC applications	3P	4P	3P	4P
3KD1640-2ME20-0	3KD1660-2ME20-0	3KD1634-2ME10-0	3KD1644-2ME10-0	3KD1634-2ME40-0	3KD1644-2ME40-0
3KD2240-2ME20-0	3KD2260-2ME20-0	3KD2234-2ME10-0	3KD2244-2ME10-0	3KD2234-2ME40-0	3KD2244-2ME40-0
3KD2640-2ME20-0	3KD2660-2ME20-0	3KD2634-2ME10-0	3KD2644-2ME10-0	3KD2634-2ME40-0	3KD2644-2ME40-0
3KD2840-2NE20-0	3KD2860-2NE20-0	3KD2834-2NE10-0	3KD2844-2NE10-0	3KD2834-2NE40-0	3KD2844-2NE40-0
3KD3040-2NE20-0	3KD3060-2NE20-0	3KD3034-2NE10-0	3KD3044-2NE10-0	3KD3034-2NE40-0	3KD3044-2NE40-0
3KD3240-2NE20-0	3KD3260-2NE20-0	3KD3234-2NE10-0	3KD3244-2NE10-0	3KD3234-2NE40-0	3KD3244-2NE40-0
3KD3440-2NE20-0	3KD3460-2NE20-0	3KD3434-2NE10-0	3KD3444-2NE10-0	3KD3434-2NE40-0	3KD3444-2NE40-0
3KD2840-0NE20-0	3KD2860-0NE20-0	3KD2834-0NE10-0	3KD2844-0NE10-0	3KD2834-0NE40-0	3KD2844-0NE40-0
3KD3040-0NE20-0	3KD3060-0NE20-0	3KD3034-0NE10-0	3KD3044-0NE10-0	3KD3034-0NE40-0	3KD3044-0NE40-0
3KD3240-0NE20-0	3KD3260-0NE20-0	3KD3234-0NE10-0	3KD3244-0NE10-0	3KD3234-0NE40-0	3KD3244-0NE40-0
3KD3440-0NE20-0	3KD3460-0NE20-0	3KD3434-0NE10-0	3KD3444-0NE10-0	3KD3434-0NE40-0	3KD3444-0NE40-0
3KD3640-0NE20-0	-	3KD3634-0NE10-0	3KD3644-0NE10-0	3KD3634-0NE40-0	3KD3644-0NE40-0
3KD3640-0PE20-0	3KD3660-0PE20-0	3KD3634-0PE10-0	3KD3644-0PE10-0	3KD3634-0PE40-0	3KD3644-0PE40-0
3KD3840-0PE20-0	3KD3860-0PE20-0	3KD3834-0PE10-0	3KD3844-0PE10-0	3KD3834-0PE40-0	3KD3844-0PE40-0
3KD4040-0PE20-0	3KD4060-0PE20-0	3KD4034-0PE10-0	3KD4044-0PE10-0	3KD4034-0PE40-0	3KD4044-0PE40-0
3KD4240-0PE20-0	3KD4260-0PE20-0	3KD4234-0PE10-0	3KD4244-0PE10-0	3KD4234-0PE40-0	3KD4244-0PE40-0
3KD4440-0QE20-0	3KD4460-0QE20-0	3KD4434-0QE10-0	3KD4444-0QE10-0	3KD4434-0QE40-0	3KD4444-0QE40-0
3KD4640-0QE20-0	3KD4660-0QE20-0	3KD4634-0QE10-0	3KD4644-0QE10-0	3KD4634-0QE40-0	3KD4644-0QE40-0
3KD4840-0QE20-0	3KD4860-0QE20-0	3KD4834-0QE10-0	3KD4844-0QE10-0	3KD4834-0QE40-0	3KD4844-0QE40-0
3KD5040-0RE20-0	3KD5060-0RE20-0	3KD5034-0RE10-0	3KD5044-0RE10-0	3KD5034-0RE40-0	3KD5044-0RE40-0
3KD5240-0RE20-0	3KD5260-0RE20-0	3KD5234-0RE10-0	3KD5244-0RE10-0	3KD5234-0RE40-0	3KD5244-0RE40-0
3KD5440-0RE20-0	3KD5460-0RE20-0	3KD5434-0RE10-0	3KD5444-0RE10-0	3KD5434-0RE40-0	3KD5444-0RE40-0

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Accessories

Additional poles

- Note:

 Additional poles (4th contact element, N or N/PE terminal) must always be mounted directly adjacent to the switch disconnector on the left or right.

 Additional pole on sizes 1 and 2.
- For installation, it is important to note that only a 3-pole 3KD switch disconnector may be retrofitted with an additional switching pole with contact system (4th contact element).

			Size 1	Size 2	Size 3	Size 4	Size 5
4th contact	t elements (switching pole)						
	 For upgrading a 3-pole to a 4-pole switch disconnector Identical to the factory-fitted poles 						
	Connection	Article No.					
4	Box terminals	3KD9105-2					
	N — ~ N	3KD9205-2		•			
	Flat terminals	3KD9205-0					
	N——— N	3KD9305-0					
0		3KD9405-0					
		3KD9505-0					
N terminals	s (neutral conductor terminal) with removable jumper						
	A jumper can be removed in order to interrupt the electrical connection between the terminals						
	Connection	Article No.					
4	Box terminals	3KD9106-2					
		3KD9206-2		•			
D.	Flat terminals	3KD9206-0					
		3KD9306-0					
0 8		3KD9406-0					
		3KD9506-0					
N/PE termin	nals with permanent jumper						
	A permanent electrical connection between the terminals that cannot be broken						
	Connection	Article No.					
4	Box terminals	3KD9106-8					
		3KD9206-8		•			
D.	Flat terminals	3KD9206-7		-			
		3KD9306-7					
		3KD9406-7				-	
		3KD9506-7					



Note:

- For 3KD switch disconnectors and lateral operating mechanism (left or right), only 8UD door-coupling rotary operating mechanisms without the test function can be used.
- If door-coupling rotary operating mechanisms without "Test" are used on 3KD switch disconnectors, the test function must be mechanically blocked on the switch using a blocking pin.

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Accessories

rcessorie	ries for door-coupling rotary operating mechanisms						Size 3	Size 4	Size :
andles									
		masking frame, but with	nout an extension shaft						
	or coupling drive								
		ith up to 3 padlocks	Color	Article No.					
	Labeling O-I	Lighting Without		8UD1771-2AD01					
	0-1	Without	Gray	8UD1841-2AD01		•			
							-		
				8UD1851-3AD01 8UD1861-4AD01				-	_
			Red/yellow	8UD1771-2AD05					-
			Red/yellow			•	_		
				8UD1841-2AD05			-	_	
				8UD1851-3AD05				-	_
		MONE	C	8UD1861-4AD05	_	_			-
		With	Gray	8UD1771-2CD01	-		_		
				8UD1841-2CD01			-	_	
				8UD1851-3CD01				-	
			D 11 11	8UD1861-4CD01					-
			Red/yellow	8UD1771-2CD05	-	•			
				8UD1841-2CD05			-		
				8UD1851-3CD05				-	
				8UD1861-4CD05					-
	Test-O-I	Without	Gray	8UD1771-2AF01		-			
				8UD1841-2AF01			-		
				8UD1851-3AF01					
				8UD1861-4AF01					
			Red/yellow	8UD1771-2AF05					
				8UD1841-2AF05					
				8UD1851-3AF05					
				8UD1861-4AF05					
		With	Gray	8UD1771-2CF01					
				8UD1841-2CF01					
				8UD1851-3CF01					
				8UD1861-4CF01					
			Red/yellow	8UD1771-2CF05					
				8UD1841-2CF05					
				8UD1851-3CF05					
				8UD1861-4CF05				_	
tension sh	nafts	_	_	0021001 10103	_				_
3	A shaft jack is re	quired for the 8UD1 har aft is used and for sizes							
	Length			Article No.					
Ď.	300 mm			8UC6032					
				8UC6033					
				8UC6034					
	600 mm			8UC6082	-	-	-		
				8UC6083					
				8UC6084					
aft jack fo	r 8UD1 handle			300000					
W.	Version			Article No.					
				8UD1900-0FA00					
P	For shaft 600 mm		For shaft 600 mm						

Accessorie	s for door-coupling rotary operating mechanism	S	Size 1	Size 2	Size 3	Size 4	Size 5
Coupling driv	vers						
	Version	Article No.					
	With tolerance compensation	8UD1900-2GA00		-			
		8UD1900-6GA00					
		8UD1900-3GA00					
		8UD1900-4GA00					
T.	Without tolerance compensation	8UD1900-2HA00		-			
		8UD1900-6HA00					
		8UD1900-3HA00				-	
		8UD1900-4HA00					
Shaft couplin	gs						
- F		Article No.					
		8UC6022					
e		8UC6023				-	
		8UC6024					

Other accessories and spare parts

					Size 1	Size 2	Size 3	Size 4	Size 5
Auxiliary swit	ch modules								
	Auxiliary switch module A maximum of 2 auxilia auxiliary module The 3KD9103-6 and 3KI only be used with 3KD of if the operating mechan	ry switches can be 09103-7 auxiliary s lirectly on the oper	installed per witch modules can ating mechanism						
	Variant			Article No.					
	Standard version			3KD9103-5	-				
	With test function			3KD9103-6					
	With leading NO contact ar	3KD9103-7	-						
Auxiliary swit	ches								
	Auxiliary switches for size are mounted on the ope Auxiliary switches with 35U1 range can also be All auxiliary switches for auxiliary switches, depethe auxiliary switch (see								
	Variant	Contacts	Contact surface	Article No.					
€	With connecting cables	1 CO	Standard	3KD9103-1					
			Solid-state compatible	3KD9103-3	•	•			
	Without connecting cables	1 CO	Standard	3KD9103-2	-	-			
			Solid-state compatible	3KD9103-4	-	•			
		1 NO	Standard	3SU1400-1AA10-1BA0					
			Gold-plated	3SU1400-1AA10-1LA0					
		1 NC	Standard	3SU1400-1AA10-1CA0					
6			Gold-plated	3SU1400-1AA10-1MA0				•	•
		1 NO + 1 NC	Standard	3SU1400-1AA10-1FA0				•	•
9			Gold-plated	3SU1400-1AA10-1QA0				•	
•		2 NO	Standard	3SU1400-1AA10-1DA0				•	
			Gold-plated	3SU1400-1AA10-1NA0			-	-	•
		2 NC	Standard	3SU1400-1AA10-1EA0			-	-	-
			Gold-plated	3SU1400-1AA10-1PA0				•	-

Other accessories and spare parts

e barri	iers					Size 2			
. Darri	 For 3KD with flat ter 	minals			_				
		flat terminals, phase bared in the scope of supply							
	Version	Scope of supply		Article No.					
	For 3-pole devices	6 units		3KD9108-6		-			
				3KD9308-6					
				3KD9408-6				-	
				3KD9508-6					
	For 4-pole devices	8 units		3KD9108-8					
				3KD9308-8			-		
				3KD9408-8				-	
				3KD9508-8	_				
nal co									
	 For 3KD with flat ter Version 	Scope of supply	Variant	Article No.					
	For 3-pole devices	6 units	Standard length	3KD9204-6					
	1 of 3-pole devices	o units	Standard length	3KD9304-6		-			
				3KD9404-6				_	
				3KD9504-6					
			Short version	3KD9204-7					
				3KD9304-7			-		
				3KD9404-7					
	For 4-pole devices	8 units	Standard length	3KD9204-8		-			
				3KD9304-8					
				3KD9404-8				•	
				3KD9504-8					
			Short version	3KD9204-5					
				3KD9304-5			-		
				3KD9404-5	_	_	_	•	
part	for terminal covers	Corner of country	Mantana	Austria Na					
		Scope of supply	Variant Standard langth	Article No.					
		1 unit	Standard length Short version	3KD9504-1 3KD9204-1					
			SHOIL VEISION	3KD9304-1		•			
ग				3KD9404-1			_		
ina ni	n test function			SKD5404 1				•	
ng pi		deactivation of the test	function						Ī
		perating mechanism m	odule						
		Scope of supply		Article No.					
		10 units		3KF9112-1AA00		-			
				3KF9412-1AA00					
				3KF9512-1AA00					
	orackets								
iting b									
nting b		in the scope of supply of	of the 3KD	A (2.1. A)					
nting b		Scope of supply	of the 3KD	Article No.					
nting b			of the 3KD	3KD9120-1		•	_		
nting b		Scope of supply	f the 3KD	3KD9120-1 3KF9212-0AA00	•	•		_	
nting b		Scope of supply	of the 3KD	3KD9120-1 3KF9212-0AA00 3KF9412-0AA00	ŀ	•	•		
		Scope of supply 4 units	of the 3KD	3KD9120-1 3KF9212-0AA00	ŀ	۰	٠	٠	
	Spare part, included ounting on a standard management	Scope of supply 4 units ounting rail in the scope of supply of		3KD9120-1 3KF9212-0AA00 3KF9412-0AA00 3KF9512-0AA00	Ŀ	•	•	٠	
	Spare part, included ounting on a standard management	Scope of supply 4 units ounting rail		3KD9120-1 3KF9212-0AA00 3KF9412-0AA00	Ì		•		

Accessories for DC applications

			Size 1	Size 2	Size 3	Size 4	Size 5
Connecting b	idges						
	 Suitable for connecting two poles For 3KD switch disconnectors with 400 A, 800 A, 1250 A and 1600 A, two units are required. 						
	Connection	Article No.					
33	Box terminals	3KD9118-1					
		3KD9218-1		•			
	Flat terminals	3KD9218-0		•			
0 0		3KD9318-0			-		
		3KD9418-0				-	
		3KD9518-0					
Terminal cove	rs for connecting bridges						
All Halles	For 3KD with flat terminals						
		Article No.					
		3KD9204-0		-			
		3KD9304-0					
		3KD9404-0				•	
		3KD9504-0					

5TE1 switch disconnectors

System overview

Switch disconnectors





Transparent

Red/yellow

Accessories







Auxiliary switches

Cage terminals

Terminal covers

5TE1 switch disconnectors

18 ... 33 kA_{rms}





	Switch discon transparent	inectors,		Switch disconnectors, red/yellow				
Number of poles	2P	3P	3P+N	4P	3P	4P		
	1 3	1 3 5	1 3 5 N 2 4 6 N	2 4 6 8	1 3 5	1 3 5 7		

Mounting width	Rated operational current l _e	Rated operational voltage U _e						
5 MW	100 A	690 V	5TE1210	5TE1310	5TE1610	5TE1410	5TE1315	5TE1415
	125 A	690 V	5TE1220	5TE1320	5TE1620	5TE1420	5TE1325	5TE1425
8 MW	160 A	690 V	5TE1230	5TE1330	5TE1630	5TE1430	5TE1335	5TE1435
	200 A	690 V	5TE1240	5TE1340	5TE1640	5TE1440	5TE1345	5TE1445

Accessories

Can be mounted optionally left or right or on both sides (2 units) Contact load Contacts Ie Ue Min. 24 V, 50 mA 1 CO 6 A 230 V 2 CO 6 A 230 V

Rotary operating mechanisms with extension shafts



 For mounting on hinged doors or enclosure lids, lockable

 Degree of protection
 Color
 Shaft length
 Article No.

 IP65
 Black knob
 200 mm
 5TE9010

 400 mm
 5TE9011

 Red knob
 200 mm
 5TE9012

 400 mm
 5TE9013

Conversion kit, 4-pole



- For connection of busbars or cables with cable lugs
- For busbars max. 15 mm wide including terminal cover

 Version
 Article No.

 For 100 A and 125 A switch disconnectors
 5TE9015

Cage terminals



- Terminal diameter 14.5 mm for 35-mm² cables
- Hexagon socket-head screw 5 mm

 Version
 Number of poles
 Scope of supply
 Article No.

 For 160 A and 200 A switch disconnectors
 3-pole
 1 set = 3 units
 5TE9003

 4-pole
 1 set = 4 units
 5TE9004

Locking units



For up to three padlocks with max. diam. 8 mm

Article No. 5TE9014

Article No.

5TE9000

Article No.

5TE9005

5TE9006

Terminal covers, sealable



VersionFor 100 A and 125 A switch disconnectors

For 160 A and 200 A switch disconnectors

5TE9001

Fuse switch disconnectors

Quick selection guide





Rated uninterrupted current I	Size			000	00	1	2	3
Rated uninterrupted current I	General technical details acc. to	o IEC 60947-3						
For fuse links acc. to IEC 60269-2	Basic data							
At 50/60 Hz AC At DC (2 conducting paths in series) V	Rated uninterrupted current I _u		Α	160 ²⁾	160	250	400	630
At DC (3 conducting paths in series) V 2440 At DC (2 conducting paths in series) V 2440 At DC (2 conducting paths in series) V 2440 At DC (2 conducting paths in series) V 2440 At DC (2 conducting paths in series) V 3440 At DC (2 conducting paths in series) V 3440 At DC (2 conducting paths in series) V 3440 At DC (2 conducting paths in series), 40 V 0 690 V 3440 690 V 3440 630 At AC 218, 400 V AC A 160 P 160 250 400 630 At AC 228, 400 V AC A 160 P 160 250 400 630 At AC 228, 500 V AC A 160 P 160 250 400 630 At AC 228, 500 V AC A 160 P 160 250 400 630 At AC 218, 500 V AC A 160 P 160 250 400 630 At AC 218, 500 V AC A 160 P 160 250 400 630 At AC 218, 690 V AC A 160 P 160 250 400 630 At AC 218, 690 V AC A 160 P 160 250 400 630 At AC 228, 690 V AC A 160 P 160 250 400 630 At AC 228, 690 V AC A 50 125 250 400 630 At AC 228 (2 conducting paths in series), 240 V DC A 160 250 400 630 At DC 228 (2 conducting paths in series), 240 V DC A 160 250 400 630 At DC 228 (2 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (2 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (2 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (2 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (2 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (2 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 200 250 400 630 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 100 250 400 630 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 100 100 160 250 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 100 160 250 400 630 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 100 100 160 250 At DC 228 (3 conducting paths in series), 240 V DC A 80 100 100 160 250 400 630 At DC 228 (3 conduct	For fuse links acc. to IEC 60269-2		Size	000	00 and 000	1 and 0	2 and 1	3 and 2
At DC (2 conducting paths in series) V 240 At DC V 690" Operating and short-circuit behavior: Rated operational current I _R At AC-21B, 400 V AC A 160° 160 250 400 630 At AC-22B, 400 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 500 V AC A 160° 160 250 400 630 At AC-22B, 690 V AC A 160° 160 250 400 630 At AC-22B, 690 V AC A 50 125 250 400 500 At AC-22B, 600 V AC A 50 125 250 400 630 At AC-22B, 600 V AC A 50 125 250 400 630 At AC-22B, 600 V AC A 50 125 250 400 630 At AC-22B, 600 V AC A 50 125 250 400 630 At AC-22B, 600 V AC A 160° 160 250 400 630 At AC-22B, 600 V AC A 160° 160 250 400 630 At DC-22B (2 conducting paths in series), 240 V DC A 160° 160 250 400 630 At DC-22B (3 conducting paths in series), 240 V DC A 100 160 250 400 630 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 200 315 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 20 310 500 At DC-22B (3 conducting paths in series), 240 V DC A 50 125 20 315 500 At DC-22B (3 cond	Rated operational voltage U _e	At 50/60 Hz AC	V			690		
At DC For utilization category AC-20B or DC-20B V 690		At DC (3 conducting paths in series)	V			440		
Portutilization category AC-20B or DC-20B V		At DC (2 conducting paths in series)	V			240		
At AC-218, 400 V AC		At DC	V			-		
At AC-21B, 400 V AC		For utilization category AC-20B or DC-20B	V			690 ¹⁾		
At AC-22B, 400 V AC	Operating and short-circuit behave	vior						
At AC-23B, 400 V AC	Rated operational current I _e	At AC-21B, 400 V AC	Α	160 2)	160	250	400	630
At AC-21B, 500 V AC A 160 °2 160 250 400 630 At AC-22B, 500 V AC A 125 °3 160 250 400 630 At AC-22B, 500 V AC A 40 63 200 315 500 At AC-21B, 500 V AC A 40 63 200 315 500 At AC-21B, 500 V AC A 160 °3 160 250 400 630 At AC-22B, 500 V AC A 160 °3 160 250 400 630 At AC-22B, 690 V AC A 50 125 250 400 500 At AC-23B, 690 V AC A 50 125 250 400 500 At DC-21B (2 conducting paths in series), 240 V DC A 160 °3 160 250 400 630 At DC-22B (2 conducting paths in series), 240 V DC A 100 160 250 400 630 At DC-22B (2 conducting paths in series), 240 V DC A 100 160 250 400 630 At DC-22B (2 conducting paths in series), 440 V DC A 10C-22B (3 conduc		At AC-22B, 400 V AC	Α	160 ²⁾	160	250	400	630
At AC-22B, 500 V AC A 125 3) 160 250 400 630 At AC-22B, 690 V AC A 160 3 160 250 400 630 At AC-22B, 690 V AC A 50 125 250 400 500 At AC-22B, 690 V AC A 50 125 250 400 630 At AC-22B, 690 V AC A 50 125 250 400 630 At AC-22B, 690 V AC A 25 35 100 125 200 At DC-22B (2 conducting paths in series), 240 V DC At DC-22B (2 conducting paths in series), 240 V DC A 10C-22B (2 conducting paths in series), 240 V DC A 10C-22B (2 conducting paths in series), 240 V DC A 10C-22B (3 conducting paths in series), 440 V DC A 10C-22B (3 c		At AC-23B, 400 V AC	Α	160 ²⁾	160	250	400	630
At AC-23B, 500 V AC At AC-21B, 690 V AC At AC-23B, 690 V AC At DC-3B (2 conducting paths in series), 240 V DC At DC-23B (2 conducting paths in series), 240 V DC At DC-23B (2 conducting paths in series), 240 V DC At DC-23B (2 conducting paths in series), 240 V DC At DC-23B (3 conducting paths in serie		At AC-21B, 500 V AC	Α	160 ²⁾	160	250	400	630
At AC-21B, 690 V AC		At AC-22B, 500 V AC	Α	125 ²⁾	160	250	400	630
At AC-22B, 690 V AC		At AC-23B, 500 V AC	Α	40	63	200	315	500
At AC-23B, 690 V AC		At AC-21B, 690 V AC	Α	160 ²⁾	160	250	400	630
At DC-21B (2 conducting paths in series), 240 V DC		At AC-22B, 690 V AC	Α	50	125	250	400	500
At DC-22B (2 conducting paths in series), 240 V DC		At AC-23B, 690 V AC	Α	25	35	100	125	200
At DC-23B (2 conducting paths in series), 240 V DC		At DC-21B (2 conducting paths in series), 240 V DC	Α	160 ²⁾	160	250	400	630
At DC-21B (3 conducting paths in series), 440 V DC		At DC-22B (2 conducting paths in series), 240 V DC	Α	100	160	250	400	630
At DC-22B (3 conducting paths in series), 440 V DC		At DC-23B (2 conducting paths in series), 240 V DC	Α	80	100	200	250	400
At DC-23B (3 conducting paths in series), 440 V DC		At DC-21B (3 conducting paths in series), 440 V DC	Α	100	160	250	400	630
Rated conditional short-circuit current at 400 V/500 V/690 V		At DC-22B (3 conducting paths in series), 440 V DC	Α	50	125	200	315	500
Current with fuses (by fast switch on) Permissible let-through current of the fuses, peak value Permissible let-through current of the fuses, peak value Permissible let-through let-through let-through let-through let-through let-through let-through let-through current of the fuses KA2 S23 S23 S23 S23 S23 S24 S40 S400 Permissible let-through current of the fuses, peak value Permissible let-through current of the fuses, peak value Rated making capacity With isolating blades at 500 V AC KA S2 S23 S23 S23 S24 S23 S24 S23 S25 S400 S400 Permissible let-through current of the fuses, peak value Rated insulation voltage Uine Permissible let-through current of the fuses, peak value P		At DC-23B (3 conducting paths in series), 440 V DC	Α	25	63	100	160	250
Chilipson Certification	Rated conditional short-circuit	Rated current at 400 V/500 V/690 V	kA	80/80/80	80/80/80	80/80/50	80/80/50	50/50/50
(with closed disconnector) Permissible let-through I²t value of the fuses Permissible let-through current of the fuses, peak value kA²s 223 223 780 2150 5400 Rated making capacity With isolating blades at 500 V AC kA 2 6 17 17 17 Rated short-time withstand current I _{cw} kA - <td< td=""><td>current with fuses (by fast switch on)</td><td></td><td>kA</td><td>10</td><td>15</td><td>25</td><td>40</td><td>50</td></td<>	current with fuses (by fast switch on)		kA	10	15	25	40	50
Permissible let-through	Short-circuit strength with fuses	Rated current at 500 V/690 V	kA	120/100	120/100	120/100	100/100	100/100
Rated making capacity With isolating blades at 500 V AC KA 2 6 17 17 17 17 Rated short-time withstand current I _{cw} KA - - - - - - - - Rated insulation voltage U _i V 690	(with closed disconnector)	Permissible let-through I ² t value of the fuses	kA ² s	223	223	780	2150	5400
Rated short-time withstand current I _{cw} kA -		- Carlotte and the Carlotte	kA	15	23	32	40	60
Rated insulation voltage U _i V 690 ¹¹	Rated making capacity	With isolating blades at 500 V AC	kA	2	6	17	17	17
Rated impulse withstand voltage U _{imp} kV 8 8 8 8 8 Power loss per pole of the switch at I _{th} (without fuses) W 5 5 8 14 30 Maximum power loss of the usable fuses (per fuse) W 7.5 ³) 12 23 34 48 Mechanical endurance, operating cycles 2000 2000 1600 1000 1000 Degree of protection Without masking plate or terminal cover – switch closed / open IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20	Rated short-time withstand current	: I _{cw}	kA	-	_	-	-	-
Power loss per pole of the switch at I_{th} (without fuses) W 5 5 8 14 30 Maximum power loss of the usable fuses (per fuse) W 7.5 3 12 23 34 48 Mechanical endurance, operating cycles 2000 2000 1600 1000 1000 Degree of protection Without masking plate or terminal cover – switch closed / open IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20	Rated insulation voltage U _i		V	690 ¹⁾				
Maximum power loss of the usable fuses (per fuse) W 7.5 3) 12 23 34 48 Mechanical endurance, operating cycles 2000 2000 1600 1000 1000 Degree of protection Without masking plate or terminal cover – switch closed / open IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20	Rated impulse withstand voltage U	imp	kV	8	8	8	8	8
Mechanical endurance, operating cycles 2000 2000 1600 1000 1000 Degree of protection Without masking plate or terminal cover – switch closed / open IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20	Power loss per pole of the switch a	I _{th} (without fuses)	W	5	5	8	14	30
Degree of protection Without masking plate or terminal cover – switch closed / open IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20	Maximum power loss of the usable fuses (per fuse)		W	7.5 ³⁾	12	23	34	48
Without masking plate or terminal cover – switch closed / open IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20 IP30/IP20	Mechanical endurance, operating cycles			2000	2000	1600	1000	1000
	Degree of protection							
With masking plate or terminal cover – switch closed / open IP40/IP20 IP40/IP20 IP40/IP20 IP40/IP20 IP40/IP20	Without masking plate or terminal	cover – switch closed / open		IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20	IP30/IP20
	With masking plate or terminal cov	er – switch closed / open		IP40/IP20	IP40/IP20	IP40/IP20	IP40/IP20	IP40/IP20

Certifications and approvals

The technical specifications apply to the standard types stated below.

For the complete specifications for all versions, see the Online Support

3NP1: 3-pole and 4-pole devices without fuse monitoring

3NP5: Devices without fuse monitoring

3NJ4/5: Disconnectors for cable and line protection without fuse monitoring, not for transformer protection

VDE, CCC, LR, c**%**us

Applies to degree of pollution 3 (for degree of pollution 2, use up to U_i 1000 V possible)
 Only with use of the infeed terminal, otherwise up to 100 A
 Max. 9 W for operation up to 160 A



3NP1 fuse switch disconnectors

System overview

Basic units









3 and 4-pole mounting on busbar systems

1, 3, 4-pole for floor mounting

Connection parts













Terminals for retrofitting to 3NP1

Auxiliary conductor connections

Assembly kits











Standard rail mounting

Mechanical connection

1/4-pole busbar mounting

Locking function

Protection against power theft

Masking frames and covers











Cable connection covers

Reach-around protection for busbar

Other accessories









Auxiliary switches

Isolating blades

Fuse carriers with and without fuse monitoring

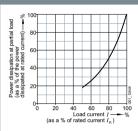
General information



Suitable fuses

You will find further information under:





The 3NP1 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection. Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded. For use of Siemens SITOR semiconductor fuses, ready-made derating tables are available in the linked document.



Types of mounting

Floor mounting



All sizes of the 3NP1 fuse switch disconnectors are available in floor mounting versions.

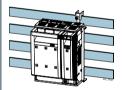
Standard mounting rail



Sizes 000, 00 and 1 can also be snapped onto a standard mounting rail (TH 35 according to EN 60715) using an accessory.

You will find further information under:

Busbar

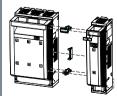


3NP1 fuse switch disconnectors are available for mounting on Siemens and Rittal busbar systems.



Accessories

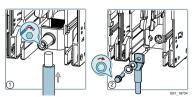
Number of poles



4-pole versions.

3NP1 fuse switch disconnectors are available in 1, 3 and 4-pole device versions. The connection kits can be used to fabricate 2-pole types and application-specific

Electrical connection

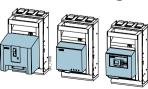


3NP1 fuse switch disconnectors are available with a number of different terminal types. Further terminal types can be retrofitted as accessories.

You will find further information under:



Fuse monitoring



All common 3NP1 versions with factory-fitted fuse monitoring are available and can be selected according to application-specific requirements.

3NP1 fuse switch disconnectors

Flat terminals NH00

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Marie Park	TO THE TOTAL PARTY OF THE TOTAL		
Fuse monitoring	Number of poles	I _u = 160 A	I _u = 250 A	I _u = 400 A	I _u = 630 A	
Floor mounting						
Without	1-pole	3NP1131-1CA10	3NP1141-1DA10	3NP1151-1DA10	3NP1161-1DA10	
	3-pole	3NP1133-1CA10	3NP1143-1DA10	3NP1153-1DA10	3NP1163-1DA10	
	4-pole	3NP1134-1CA10	3NP1144-1DA10	3NP1154-1DA10	3NP1164-1DA10	
MFM	3-pole	3NP1133-1CA11	3NP1143-1DA11	3NP1153-1DA11	3NP1163-1DA11	
EFM10	3-pole	3NP1133-1CA12	3NP1143-1DA12	3NP1153-1DA12	3NP1163-1DA12	
EFM15	1-pole	3NP1131-1CA14	3NP1141-1DA14	3NP1151-1DA14	3NP1161-1DA14	
	3-pole	3NP1133-1CA14	3NP1143-1DA14	3NP1153-1DA14	3NP1163-1DA14	
EFM20	3-pole	3NP1133-1CA13	3NP1143-1DA13	3NP1153-1DA13	3NP1163-1DA13	
Mounting on 60 mm bu	sbar systems with reach-aro	und protection for Sieme	ns 8US			
Without FM	3-pole	3NP1133-1BC10	3NP1143-1BC10	3NP1153-1BC10	3NP1163-1BC10	
	4-pole	3NP1134-1BC10	3NP1144-1BC10	3NP1154-1BC10	3NP1164-1BC10	
MFM	3-pole	3NP1133-1BC11	3NP1143-1BC11	3NP1153-1BC11	3NP1163-1BC11	
EFM10	3-pole	3NP1133-1BC12	3NP1143-1BC12	3NP1153-1BC12	3NP1163-1BC12	
EFM15	3-pole	3NP1133-1BC14	3NP1143-1BC14	3NP1153-1BC14	3NP1163-1BC14	
EFM20	3-pole	3NP1133-1BC13	3NP1143-1BC13	3NP1153-1BC13	3NP1163-1BC13	
Mounting on 60 mm bu	sbar systems with reach-aro	und protection for Rittal				
Without FM	3-pole	3NP1133-1JC10	3NP1143-1JC10	3NP1153-1JC10	3NP1163-1JC10	
MFM	3-pole	3NP1133-1JC11	3NP1143-1JC11	3NP1153-1JC11	3NP1163-1JC11	
EFM10	3-pole	3NP1133-1JC12	3NP1143-1JC12	3NP1153-1JC12	3NP1163-1JC12	
EFM20	3-pole	3NP1133-1JC13	3NP1143-1JC13	3NP1153-1JC13	3NP1163-1JC13	
Mounting on 40 mm bu	sbar systems with reach-aro	und protection for Sieme	ns 8US			
Without FM	3-pole	3NP1133-1BB10	-	_	-	
MFM	3-pole	3NP1133-1BB11	-	-	-	
EFM10	3-pole	3NP1133-1BB12	-	-	-	
EFM20	3-pole	3NP1133-1BB13	-	-	-	
Mounting on 40 mm bu	sbar systems with reach-aro	und protection for Rittal				
Without FM	3-pole	3NP1133-1JB10	-	-	-	
MFM	3-pole	3NP1133-1JB11	-	-	-	
EFM10	3-pole	3NP1133-1JB12	-	-	-	
EFM20	3-pole	3NP1133-1JB13	-	-	-	

NH1

NH2

NH3

Notes:

- On the 3NP1 with fuse monitoring, the permissible operating voltage is limited by the fuse monitoring
- Permissible operational voltage with fuse monitoring:
- MFM AC max. 690 V (L − L) / max. 440 V (L+ − L−)
- EFM10 230 ... 690 V AC (L L)
- $-\;$ EFM15 3-pole 190 ... 690 V AC (L L)
- $-\;$ EFM15 1-pole 24 ... 240 V AC (L N) / 24 ... 250 V DC (L+ L–)
- EFM20 230 ... 690 V AC (L L)
- Additional variants are available as accessories:
 - EFM15 with further operating voltage ranges
 - EFM25 DC version of the EFM20
- Devices for busbar mounting with reach-around protection
 - For Siemens 8US, mounting is possible on the Wöhner Classic and Rittal RiLine systems without a floor pan
 - For Rittal, mounting is possible on the RiLine60 system with a floor pan

Box terminals				
NH000	NH00	NH1	NH2	NH3
		ALCOHOLD .		
			N N	1
		The same of		
		Par Berlin	George Co.	
	CO Sent Sin	Condition and	Same and	S. Samerana
I _u = 100 A	I _u = 160 A	I _u = 250 A	I _u = 400 A	I _u = 630 A
3NP1121-1CA20	3NP1131-1CA20	3NP1141-1DA20	3NP1151-1DA20	3NP1161-1DA20
3NP1123-1CA20	3NP1133-1CA20	3NP1143-1DA20	3NP1153-1DA20	3NP1163-1DA20
3NP1124-1CA20	3NP1134-1CA20	3NP1144-1DA20	3NP1154-1DA20	3NP1164-1DA20
=	3NP1133-1CA21	3NP1143-1DA21	3NP1153-1DA21	3NP1163-1DA21
3NP1123-1CA22	3NP1133-1CA22	3NP1143-1DA22	3NP1153-1DA22	3NP1163-1DA22
3NP1121-1CA24	3NP1131-1CA24	3NP1141-1DA24	3NP1151-1DA24	3NP1161-1DA24
3NP1123-1CA24	3NP1133-1CA24	3NP1143-1DA24	3NP1153-1DA24	3NP1163-1DA24
3NP1123-1CA23	3NP1133-1CA23	3NP1143-1DA23	3NP1153-1DA23	3NP1163-1DA23
3NP1123-1BC20	3NP1133-1BC20	3NP1143-1BC20	3NP1153-1BC20	3NP1163-1BC20
3NP1124-1BC20	3NP1134-1BC20	3NP1144-1BC20	3NP1154-1BC20	3NP1164-1BC20
-	3NP1133-1BC21	3NP1143-1BC21	3NP1153-1BC21	3NP1163-1BC21
3NP1123-1BC22	3NP1133-1BC22	3NP1143-1BC22	3NP1153-1BC22	3NP1163-1BC22
3NP1123-1BC24	3NP1133-1BC24	3NP1143-1BC24	3NP1153-1BC24	3NP1163-1BC24
3NP1123-1BC23	3NP1133-1BC23	3NP1143-1BC23	3NP1153-1BC23	3NP1163-1BC23
3NP1123-1JC20	3NP1133-1JC20	3NP1143-1JC20	3NP1153-1JC20	3NP1163-1JC20
-	3NP1133-1JC21	3NP1143-1JC21	3NP1153-1JC21	3NP1163-1JC21
3NP1123-1JC22	3NP1133-1JC22	3NP1143-1JC22	3NP1153-1JC22	3NP1163-1JC22
3NP1123-1JC23	3NP1133-1JC23	3NP1143-1JC23	3NP1153-1JC23	3NP1163-1JC23
3NP1123-1BB20	3NP1133-1BB20	-	-	-
_	3NP1133-1BB21	-	-	-
3NP1123-1BB22	3NP1133-1BB22	-	-	-
3NP1123-1BB23	3NP1133-1BB23	-	-	-
3NP1123-1JB20	3NP1133-1JB20	-	-	-
-	3NP1133-1JB21	-	-	-
3NP1123-1JB22	3NP1133-1JB22	-	-	-
3NP1123-1JB23	3NP1133-1JB23	-	-	-

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3NP1 fuse switch disconnectors

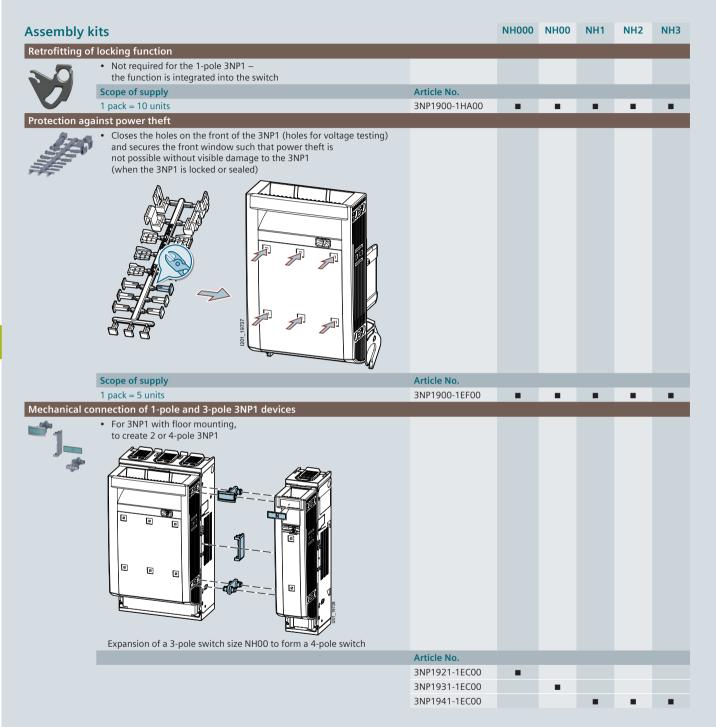
Accessories

Connection	onnection parts		1-pole	3-pole	NH000	NH00	NH1	NH2	NH3
Terminals for	3NP1 with flat terminal	s							
	 Contain enough parts to retrofit one side of a 3NP1 accordingly (three terminals for 3-pole 3NP1, one terminal for 1-pole unit) If the incoming cable and cable outlet are retrofitted, two packages must be ordered Connection module for busbar mounting if a masking frame is to be supported on the 32 mm cover plane (installation of the terminals under the masking frame) 								
	Variant	Conductor cross-section	Article No.	Article No.					
	Saddle terminals	1.5 70 mm ²	3NP1931-1BA00	3NP1933-1BA00					
		70 120 mm ²	3NP1941-1BA00	3NP1943-1BA00					
		120 240 mm ²	3NP1951-1BA00	3NP1953-1BA00					
		150 300 mm ²	3NP1961-1BA00	3NP1963-1BA00					
	Prism terminals,	35 95 mm ²	3NP1931-1BB10	3NP1933-1BB10		•			
	single	70 150 mm ²	3NP1941-1BB10	3NP1943-1BB10					
		120 240 mm ²	3NP1951-1BB10	3NP1953-1BB10					
		150 300 mm ²	3NP1961-1BB10	3NP1963-1BB10					
	Prism terminals,	2× 35 70 mm ²	3NP1941-1BB20	3NP1943-1BB20			-		
	double	2× 70 120 mm ²	3NP1951-1BB20	3NP1953-1BB20					
		2× 150 185 mm ²	3NP1961-1BB20	3NP1963-1BB20					•
	Three-tier terminal	3× 1.516 mm ²	3NP1931-1BE10	3NP1933-1BE10		•			
	Connection module	3× 6 70 mm²	3NP1931-1BC00	3NP1933-1BC00		•			
Terminals for	3NP1 with box termina	ls							
	 Contain enough parts of a 3NP1 accordingly for 3-pole 3NP1, one If the incoming cable retrofitted, two packa 	(three terminals terminal for 1-pole unit) and cable outlet are							
	Variant	Conductor cross-section	Article No.	Article No.					
	Three-tier terminal	3× 1.5 16 mm ²	3NP1921-1BE20	3NP1923-1BE20	•	•			
	Feeder terminal	16 95 mm²	3NP1921-1BD00	3NP1923-1BD00	•				

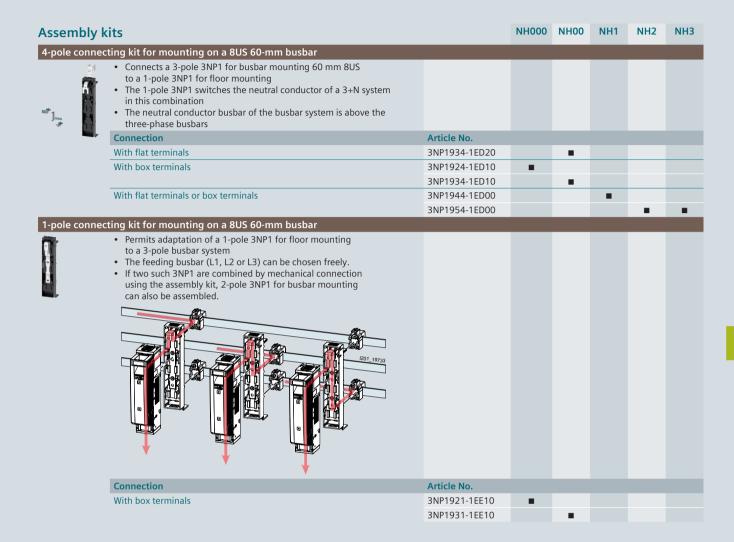
Connection	Connection parts 3-				NH00	NH1	NH2	NH3
Auxiliary cond	ductor connections							
	With the auxiliary conductor co directly connected to the termi Connection via flat tab sleeves Contains 3 auxiliary conductor	nals of the 3NP1 6.3 × 0.8 mm, max. 5 A load						
	Connection		Article No.					
0	With flat terminals		3NP1933-1BG10 3NP1943-1BG10 3NP1943-1BG10		•	•	•	
_			3NP1943-1BG10					
4	With box terminals	3NP1923-1BG40 3NP1933-1BG40 3NP1943-1BG40 3NP1953-1BG40 3NP1953-1BG40	•	•				
	With retrofitted prism and saddle	3NP1933-1BG30		_				
			3NP1943-1BG30			-		
			3NP1953-1BG30			_	-	
•			3NP1953-1BG30				_	
Three-phase l	ousbar system		3111 1983 18830					_
	 With the three-phase busbars, can be interconnected on the infeeder terminals. With the connection bar, two b Using the cover cap, the conneunused feeders to ensure they 	capacity of the interconnected 3NP1						
	Version	Scope of supply	Article No.					
	For 2× 3NP1	1 pack = 5 units	3NP1923-1BF20					
777.777	For 3× 3NP1	1 pack = 5 units	3NP1923-1BF30	-				
	For 4× 3NP1	1 pack = 3 units	3NP1923-1BF40					
111 111	Connection bars	1 pack = 3 units	3NP1923-1BF50	•				
Δ	Covering caps 1 pack = 20 units		3NP1923-1BF10	•				

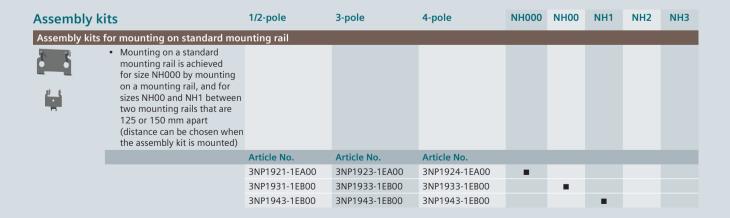
3NP1 fuse switch disconnectors

Accessories



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3NP1 fuse switch disconnectors

Accessories

Masking fra	ames and covers		1-pole	3-pole	NH000	NH00	NH1	NH2	NH3
Masking fram									
inasking nam	The masking frame sup	de of the 3NP1 and prevent							
	Version	Outer dimensions (H×W)	Article No.	Article No.					
	Masking frames	215 × 130 mm	-	3NP1923-1DA00					
		215 × 130 mm	-	3NP1933-1DA00		-			
		375 × 220 mm	_	3NP1943-1DA00					
		375 × 245 mm	_	3NP1953-1DA00					
		375 × 290 mm	_	3NP1963-1DA00					
1	Masking frame supports		3NP1923-1CF00	3NP1923-1CF00	_				
1	3		3NP1933-1CF00	3NP1933-1CF00					
			3NP1943-1CF00	3NP1943-1CF00			•	•	•
Cable connect	tion covers								
	Extend the terminal co the 3NP1 – they are re when long, uninsulate In the version with rea the underside is also co	quired, for example, d cable lugs are used r reach-around protection,							
GA GA GA	Version		Article No.	Article No.					
	Without rear reach-aroun	d protection	3NP1921-1CB00	3NP1923-1CB00 ¹⁾					
	·		3NP1931-1CB00	3NP1933-1CB00 ²⁾					
			3NP1941-1CB00	3NP1943-1CB00					
			3NP1951-1CB00	3NP1953-1CB00					
			3NP1961-1CB00	3NP1963-1CB00					
(A) (A) (A)	With rear reach-around p	rotection	_	3NP1933-1CC00 1)		-			
	·		3NP1931-1CD00	3NP1933-1CD00 ³⁾					
S-16-16-1			3NP1941-1CD00	3NP1943-1CD00					
All and the second			3NP1951-1CD00	3NP1953-1CD00					
			3NP1961-1CD00	3NP1963-1CD00					
Reach-around	protection for busbar m	nounting							
	 Covers the busbar for of Contained in the scope corresponding 3NP1 (see Because the reach-aroureplaced, it can also be existing 3NP1 for a diff 	spare part) und protection can be e used to convert an							
	Version		Article No.	Article No.					
	For Siemens 8US busbar s	system	-	3NP1923-1CA10					
IRRE			-	3NP1933-1CA10		-			
====			3NP1941-1CA10	-					•
			-	3NP1943-1CA10					
			-	3NP1953-1CA10					
			_	3NP1963-1CA10					-
	For Siemens 8US busbar s	system compact	-	3NP1923-1CA30	•				
1									
	For Rittal busbar system		-	3NP1923-1CA20					
:==:			-	3NP1933-1CA20		-			
			-	3NP1943-1CA20			-		
			-	3NP1953-1CA20					
			-	3NP1963-1CA20					

Only for 3NP1 for mounting on busbar systems
 Only for 3NP1 with flat terminals
 Only for 3NP1 with flat terminals for floor mounting

Other acco	essories		NH000	NH00	NH1	NH2	NH3
Auxiliary swit	ches						
	 In each 3NP1, up to 2 auxiliary switches can be mounted From size NH00, it is possible to choose whether the auxiliary switch will switch simultaneously with the fuses or leading on switch-on. (Only leading possible for size NH000) 						
	Contacts	Article No.					
	1 CO	3NP1920-1FA00					
- 30		3NP1930-1FA00		-			
		3NP1940-1FA00			-		
S a	1 CO, solid-state compatible	3NP1920-1FB00					
		3NP1930-1FB00		-			
		3NP1940-1FB00			-	•	
Isolating blad	les						
	 Are used if only the isolating function of a 3NP1 is required and not protection with fuses or in the neutral conductor of a 4-pole 3NP1. The isolating blade, which is leading on switch-on and lagging on switch-off, is used in the neutral conductor of a 4-pole 3NP1 if shifting of the neutral point of the 3+N system has to be avoided during switching. 						
,îL	Version	Article No.					
7	Switching simultaneously with fuses	3NG1002					
II.		3NG1202					
		3NG1302				-	
		3NG1402					
ſſ	Leading switch-on, lagging switch-off	3NP1924-1MA20					
40				•			
o		3NP1944-1MA20					
27		3NP1954-1MA20				-	
	,						

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3NP1 fuse switch disconnectors

Other accessories		1-pole	3-pole	NH000	NH00	NH1	NH2	NH3
Fuse carriers								
	 Included in the scope of supply of the 3NP1 (spare parts) For retrofitting fuse monitoring on an existing 3NP1 (by replacing the grip) 							
	Version	Article No.	Article No.					
	Standard – without fuse monitoring	3NP1921-1GA00 3NP1931-1GA00 3NP1941-1GA00 3NP1951-1GA00	3NP1923-1GA00 3NP1933-1GA00 3NP1943-1GA00 3NP1953-1GA00	•	•		•	
		3NP1961-1GA00	3NP1963-1GA00					-
	MFM 24 690 V AC (L - L)/24 240 V DC (L+ - L–)	- - -	3NP1933-1GB10 3NP1943-1GB10 3NP1953-1GB10 3NP1963-1GB10		•	•		
	EFM10 230 690 V AC (L - L)	- - -	3NP1923-1GB20 3NP1933-1GB20 3NP1943-1GB20 3NP1953-1GB20	•	•	•	•	
	551445	- 2ND4024 4 CD 42	3NP1963-1GB20					
Real Property of the Property	EFM15 24 240 V AC (L - N) / 24 250 V DC (L+ - L–)	3NP1921-1GB43 3NP1931-1GB43 3NP1941-1GB43 3NP1951-1GB43 3NP1961-1GB43	- - -	•	•			
	EFM15	3NP1921-1GB43	_	_				
T - FE	110 690 V AC (L - N)	3NP1921-1GB41 3NP1931-1GB41 3NP1941-1GB41 3NP1951-1GB41 3NP1961-1GB41	- - -	•	•			
	EFM15	_	3NP1923-1GB42					
	190 690 V AC (L - L)	- - -	3NP1933-1GB42 3NP1943-1GB42 3NP1953-1GB42 3NP1963-1GB42		•	•		
Ta Ta	EFM15 120 440 V DC (L+ - L-)	3NP1921-1GB44 3NP1931-1GB44 3NP1941-1GB44 3NP1951-1GB44 3NP1961-1GB44	- - -	•	•			
	EFM15 220 440 V DC (L+ - L-)	- - - -	3NP1923-1GB45 3NP1933-1GB45 3NP1943-1GB45 3NP1953-1GB45 3NP1963-1GB45	•	•	•	•	•

Other accessories		1-pole	3-pole	NH000	NH00	NH1	NH2	NH3
Fuse carriers								
	 Included in the scope of supply of the 3NP1 (spare parts) For retrofitting fuse monitoring on an existing 3NP1 (by replacing the grip) 							
	Version	Article No.	Article No.					
	EFM20	-	3NP1923-1GB30					
	230 690 V AC (L - L)	-	3NP1933-1GB30					
		-	3NP1943-1GB30					
		-	3NP1953-1GB30					
· •		-	3NP1963-1GB30					-
	EFM25	-	3NP1923-1GB50					
200	220 440 V DC (L+ - L-)	-	3NP1933-1GB50					
bessel		-	3NP1943-1GB50					
		-	3NP1953-1GB50					
		-	3NP1963-1GB50					•

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3NP5 fuse switch disconnectors

System overview

Basic units





Floor mounting

For 40 mm busbar system

Connection parts





Clamp terminals

Busbar adapters for 60 mm systems

Masking frames and covers





Molded-plastic masking frames

Cable connection covers

Other accessories









Auxiliary switches

Arc chutes

Assembly kits for flush mounting

Fuse carriers

General information



System description

You will find further information under:









3NP54

The 3NP5 fuse switch disconnector is an extremely robust device for extreme operating conditions.

The fuse carrier has a pretensioned spring that prevents accidental, slow closure.

All 3NP5 are designed for mounting on a mounting plate. Size NH00 is also available in versions for 40 mm busbar systems.

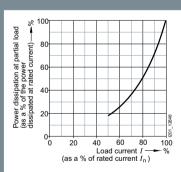
All sizes can also be mounted using adapters on 60 mm busbar systems.



Suitable fuses

You will find further information under:





The 3NP5 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection.

Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded.

For use of Siemens SITOR semiconductor fuses, ready-made derating tables are available in the linked document.

3NP5 fuse switch disconnectors



Types of mounting	Auxiliary switches	I _u = 160 A	I _u = 250 A	I _u = 400 A	I _u = 630 A
Without fuse monitoring					
Floor mounting	Without	3NP5060-0CA00	3NP5260-0CA00	3NP5360-0CA00	3NP5460-0CA00
	1 NO + 1 NC	3NP5060-0CA10	3NP5260-0CA10	3NP5360-0CA10	3NP5460-0CA10
Mounting on 40 mm busbar systems	Without	3NP5065-1CF00	-	-	-
	1 NO + 1 NC	3NP5065-1CF10	-	-	-
Electromechanical fuse monitoring with	h 1 NO + 1 NC as a signali	ing contact			
Floor mounting	1 NO + 1 NC	3NP5060-0EA86	3NP5260-0EA86	3NP5360-0EA86	3NP5460-0EA86
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1EF86	-	-	_
Electromechanical fuse monitoring with	h 2 NO as a signaling con	tact			
Floor mounting	1 NO + 1 NC	3NP5060-0EA26	3NP5260-0EA26	3NP5360-0EA26	3NP5460-0EA26
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1EF26	-	-	-
Electronic fuse monitoring with 1 NO +	1 NC as a signaling conta	nct			
Floor mounting	1 NO + 1 NC	3NP5060-0HA13	3NP5260-0HA13	3NP5360-0HA13	3NP5460-0HA13
Mounting on 40 mm busbar systems	1 NO + 1 NC	3NP5065-1HF13	-	-	-

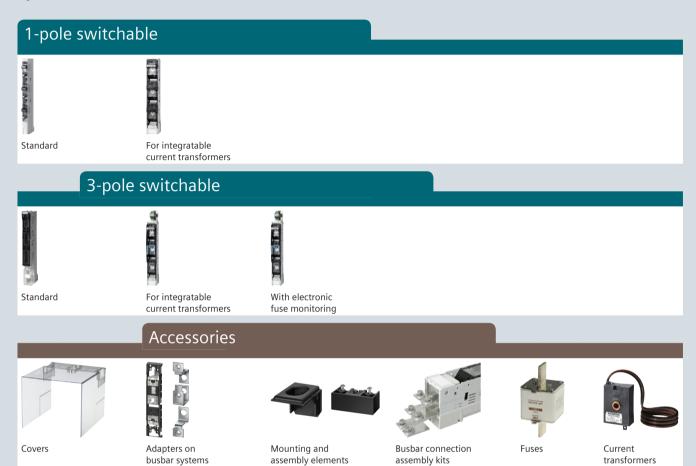
Accessorie	Accessories							NH3
Clamp termi	nals							
	Version		Scope of supply	Article No.				
	For retrofittin	g to 3NP5 with flat terminals	3 units	3NY1903	-			
				3NY1907		-		
Busbar adap	ters							
WWW	• For 60 mm	n busbar system						
	Version			Article No.				
÷ II	For adaptation			8US1291-4SB00	-			
	for floor mou	nting on a 60-mm busbar system		8US1210-4AG00		•		
Covers for ca	ble lug conne	ctions						
	Version		Scope of supply	Article No.				
	Can be screwed onto the free end of the screw		6 units	3NY1241		-		
				3NY1245			-	
Covers for 31	NP5, with auxi	liary switch mounted						
	 With punch 	hed cutouts for auxiliary switches						
	Color	Version	Dimensions	Article No.				
	Gray	Flat	215 × 135 mm	3NY1115				
	Black	Flat, with additional bending edges	290 × 135 mm	3NY1116	-			
Covers for 31	NP5, without a	nuxiliary switches mounted						
		unched cutouts for retrofitting an auxiliary s	witch					
	Color	Version	Dimensions	Article No.				
	Gray	Flat	215 × 135 mm	3NY1105				
	Black	Flat	290 × 135 mm	3NY1106				
		Angled	265 × 135 mm	3NY1107				
		Flat, with additional bending edges	290 × 135 mm	3NY1108				

Accessor	ies		NH00	NH1	NH 2	NH3	
Auxiliary sv	witches						
100	Version		Article No.				
0	1 NO + 1 NC, including mounting kit		3NY3033				
			3NY3034				-
Arc chutes							
	 Spare part for arc chutes installed in the factory, one unit per switch is required for NH00, three unit 	s for NH1 to NH3					
•			Article No.				
			3NY4031				
			3NY4011				
			3NY4012				-
Assembly k	kits for flush mounting in front panel		Article No.				
7-3	Version		Article No.				
	Assembly kit with cover and mounting accessories		3NY1208				
4			3NY1210				
			3NY1211				
			3NY1212				-
	Covers (spare part for assembly kit)		3NY1102		-		
			3NY1103				
			3NY1104				
Fuse carrie	rs						
	Version		Article No.				
-	Without fuse monitoring		3NY1074	•			
100			3NY1371				
			3NY1372				
			3NY1373				-
	With electromechanical fuse monitoring by circuit bre		3NY1420				
	signaling contact 1 NO + 1 NC, without connecting ca	ble	3NY1421				
			3NY1422				
			3NY1423				-
	With electromechanical fuse monitoring,		3NY1513-0				
	signaling contact 1 NO + 1 NC, without connecting ca	ble	3NY1513-2		-		
			3NY1513-3				
			3NY1513-4				-
Connectors	and connecting cables						
A	Version	Length	Article No.				
	For electromechanical fuse monitoring	1 m	3NY1910	-	-	•	-
	ni ^p	3 m	3NY1911	-	-		-
	For electronic fuse monitoring	3 m	3NY1915		-		-

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3NJ4 fuse switch disconnectors

System overview



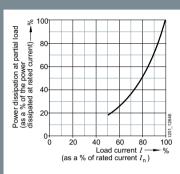
General information



Suitable fuses

You will find further information under:



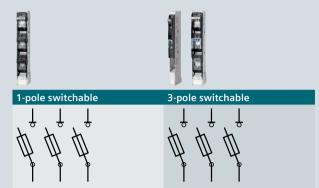


The 3NJ4 fuse switch disconnector is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection.

Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the fuse switch disconnector is not exceeded.

For use of Siemens SITOR semiconductor fuses, ready-made derating tables are available in the linked document.

3NJ4 fuse switch disconnectors



Connection	Size of fuse	Rated operational current I _e		
Standard				
Flat terminals	NH00/NH000	160 A	3NJ4101-3BF01	3NJ4103-3BF01
Box terminals	NH00/NH000	160 A	_	3NJ4103-3BR02
Screw terminals	NH00/NH000	160 A	_	3NJ4103-3BF02
	NH1	250 A	3NJ4121-3BF01	3NJ4123-3BF01
	NH2	400 A	3NJ4131-3BF01	3NJ4133-3BF01
	NH3	630 A	3NJ4141-3BF01	3NJ4143-3BF01
Stud terminals	NH1	250 A	-	3NJ4123-3BJ01
	NH2	400 A	-	3NJ4133-3BJ01
	NH3	630 A	-	3NJ4143-3BJ01
	NH4a	1250 A	3NJ5643-0BB00	-
Direct connection	NH1	250 A	-	3NJ4123-3BT01
V terminals	NH2	400 A	-	3NJ4133-3BT01
	NH3	630 A	-	3NJ4143-3BT01
For integratable cur	rent transformers			
Screw terminals	NH00/NH000	160 A	-	3NJ4103-3BF12
	NH1	250 A	3NJ4121-3BF11	3NJ4123-3BF11
	NH2	400 A	3NJ4131-3BF11	3NJ4133-3BF11
	NH3	630 A	3NJ4141-3BF11	3NJ4143-3BF11
With electronic fuse	monitoring devices EFI	M		
Flat terminals	NH00/NH000	160 A	-	3NJ4103-3CF02
	NH1	250 A	-	3NJ4123-3CF01
	NH2/NH1	400 A	-	3NJ4133-3CF01
	NH3/NH2	630 A	-	3NJ4143-3CF01
For integratable cur	rent transformers, with	EFM electronic fuse monitoring		
Flat terminals	NH00/NH000	160 A	-	3NJ4103-3CF12
	NH1	250 A	-	3NJ4123-3CF11
	NH2/NH1	400 A	-	3NJ4133-3CF11
	NH3/NH2	630 A	-	3NJ4143-3CF11
For secondary-side f	using of transformers a	nd incoming block		
Flat terminals	NH3	1000 A	-	3NJ4153-3BF01
		1250 A	-	3NJ4183-3BF01
				21114462 22524
		1600 A	-	3NJ4163-3BF01

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3NJ4 fuse switch disconnectors

ccessories					
Covers					
	Additional touch protection when using	ng cable lugs and as spa	cer		
	Size	Busbar center-to	o-center spacing	Version	Article No.
	NH00	100 mm		Top and bottom	3NJ4912-1DA02
		185 mm		100 mm for bottom	3NJ4912-1FA01
				132 mm for top	3NJ4912-1FA00
	NH1 NH3	Connection from	the top		3NJ4912-1AA01
	NH3	For double in-lin	e disconnectors		3NJ4912-1EA00
nking covers	5				
	Version	Length	Width	Busbar center-to-center spacing	Article No.
	For switchboard cutout	299 mm	50 mm	100 mm only	3NJ4912-2CA00
		633 mm	50 mm	, , , , , , , , , , , , , , , , , , ,	3NJ4912-2AA00
		633 mm	100 mm		3NJ4912-2BA00
eral masking	g frame supports				
	3 clips with T profile				
	Size				Article No.
	NH00 NH3				3NJ4912-2DA00
ing clips		_	_		A CLAN
Lore L	Scope of supply				Article No.
	1 set = 4 units, including fixing accessori	es es			3NJ4918-0AA00
equipped sec	ction covers				
	Busbar center-to-center spacing	Width			Article No.
	185 mm	50 mm			3NJ4912-3AA00
		100 mm			3NJ4912-3BA01
	100 mm	50 mm			3NJ4912-3CA00
entors for ss	rew fixing on busbar systems				
ipters for sci	Adapters for screw fixing on busbar sy For mounting 2 fuse switch disconnect		sbar center-to-cente	r spacing	
	Version	Fuse switch disc	connectors		Article No.
	Adaptation to sizes 1 3	From 100 mm to	185 mm		3NJ4918-0DA02
		From 185 mm to	185 mm		3NJ5930-3BB
	Adaptation to sizes 1 3,	From 100 mm to	185 mm		3NJ4918-0DB02
	with busbar terminal				
pters for scr	rew fixing on busbar systems				
	For fitting one fuse switch disconnect	or (= 3 separate brackets	s)		
	Version				Article No.
	Adaptation of 100 mm to busbar system	with 60 mm busbar cen	ter-to-center spacing	g	3NJ4918-0EA00
ing screws	For fitting 3NJ4103 switch disconnect	ors with integratable ou	rrent transformers o	nto adanters	
		ors with integratable cu	irent transformers o	nio auapters	Article No.
	Scope of supply				
	1 set = 3 units				3NJ4918-0DC02

Touch protection only suitable for 3NJ4103-3BF02
 Touch protection only suitable for 3NJ4101-3BF01 and 3NJ4103-3BF01

3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
2) 2)	1) 2) 2)							
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3NJ4 fuse switch disconnectors

Accessories	
Busbar supports	
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M	
Cuarradina bit	
Grounding kit	
A A A	V
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For screwing on the busbars

Article No. or 100 and 185 mm busbar center-to-center spacing 3NJ5974-0AB



Article No. Vith connecting cable 25 mm² 3NJ4910-1AA00

Busbar terminals



• Not for devices with transformer installation

Version Article No. For each fuse switch disconnector, 3 units are required 3NJ4911-3AA00 For more rapid mounting of the switch disconnectors onto the busbars (1 set = 3 units) 3NJ4911-3BA01

Saddle terminals



• 1 set = 3 units

Connection Cu 1.5 ... 70 mm² Article No. 3NJ4911-4AA00

Prism terminal assembly kits



• 1 set = 3 units

Connection Al/Cu 10 ... 70 mm² Article No. 3NJ4911-1AA00

Box terminal assembly kits



• For connection to version with flat connector

• 1 set = 3 units

Connection Article No. Al/Cu 95 ... 240 mm² 3NJ4911-2BQ00

Auxiliary switch mounting kits



• For 3-pole switchable switch disconnectors only

Version Contacts Article No. For NH00 ... NH3 with connecting cables 1 CO 3NJ4913-1AA01

Mounting hook



• 1 per in-line disconnector required

Article No. 3NJ4918-1AA00

Distance compensation



Version Article No. 3NJ4915-1BA00 3NJ4915-2BA00 For fuse switch disconnectors, with integratable current transformers if no current transformer is built in



Article No. 3NJ4915-1CA00

3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
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3NJ4 fuse switch disconnectors

Accessories

Accessories				
Busbar connect	ion assembly kits for NH1, NH2 and NH3			
AU	With flat terminals			
5152	Screws	Conductor cross-s	ection	Article No.
	M12	2× 240 mm ²		3NJ4911-5AA00
AT ALL		2× 300 mm ² /3× 12	20 mm²	3NJ4911-5BA00
	M16	1× 400 mm ²		3NJ4911-5CA00
usbar connect	ion assembly kits for NH3			
<u> </u>	Version	Conductor cross-s	ection	Article No.
	For NH3 as double in-line disconnectors	3× 300 mm ² /4× 18	85 mm ²	3NJ4911-6AA00
000		4× 240 mm²		3NJ4911-6BA00
SIEMENS	Mechanical coupling of operating handles			3NJ4911-6CA00
uses NH3				
1	Minimum order quantity 3 units			
	Version			Article No.
	For protection of transformers, 630 kVA, 90	09 A		3NJ4914-8AA00
solating blades	s NH3			
	Rated current I _e			Article No.
	1250 A			3NJ4914-8BA00
Current transfo	rmers/1 A			
	Rated current I _e	Accuracy class	Rated power P _n	Article No.
	100/1 A	0.5	1.5 VA	3NJ4915-1EA10
Allered		1	2.0 VA	3NJ4915-1EA20
	150/1 A	0.5	2.5 VA	3NJ4915-1FA10
DELIVER.		0.5 calibrated	2.5 VA	3NJ4915-1FA11
	M12	3NJ4915-1FA20		
	75/1 A	1	1.5 VA	3NJ4915-2DA20
	100/1 A	0.5	1.5 VA	3NJ4915-2EA10
		1	2.0 VA	3NJ4915-2EA20
	150/1 A	1	2.5 VA	3NJ4915-2FA20
				3NJ4915-2GA10
				3NJ4915-2GA11
				3NJ4915-2GA20
	400/1 A			3NJ4915-2HA10
PARKETS TO THE PARKETS TO THE PARKETS	100,171			3NJ4915-2HA11
				3NJ4915-2HA20
- Linear	500/1 A			
	500/1 A			3NJ4915-2JA10
	C00/4 A	1	5.0 VA	3NJ4915-2JA20
	600/1 A	0.5	2.5 VA	3NJ4915-2KA10

0.5 calibrated

2.5 VA

5.0 VA



3NJ4915-2KA11

3NJ4915-2KA20

3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
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3NJ4 fuse switch disconnectors

Accessories

Current transform	ners/5 A			
	Rated current I _e	Accuracy class	Rated power P _n	Article No.
O HANNE STORY	100/5 A	0.5	1.0 VA	3NJ4915-1EB10
		1	1.5 VA	3NJ4915-1EB20
	150/5 A	0.5	1.5 VA	3NJ4915-1FB10
		0.5 calibrated	1.5 VA	3NJ4915-1FB11
		1	2.5 VA	3NJ4915-1FB20
	75/5 A	1	1.5 VA	3NJ4915-2DB20
	100/5 A	0.5	1.0 VA	3NJ4915-2EB10
		1	2.0 VA	3NJ4915-2EB20
	150/5 A	0.5	1.5 VA	3NJ4915-2FB10
		1	2.5 VA	3NJ4915-2FB20
	250/5 A	0.5	2.5 VA	3NJ4915-2GB10
		0.5 calibrated	2.5 VA	3NJ4915-2GB11
		1	3.75 VA	3NJ4915-2GB20
	400/5 A	0.5	2.5 VA	3NJ4915-2HB10
		0.5 calibrated	2.5 VA	3NJ4915-2HB11
		1	5.0 VA	3NJ4915-2HB20
	500/5 A	0.5	2.5 VA	3NJ4915-2JB10
		1	5.0 VA	3NJ4915-2JB20
	600/5 A	0.5	2.5 VA	3NJ4915-2KB10
		0.5 calibrated	2.5 VA	3NJ4915-2KB11

5.0 VA

3NJ4915-2KB20

3NJ4101	3NJ4103	3NJ412	3NJ413	3NJ414	3NJ415	3NJ416	3NJ417	3NJ418
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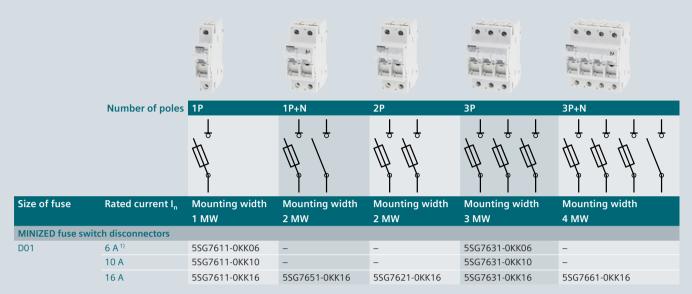
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5SG76 fuse switch disconnectors

System overview

MINIZED fuse switch disconnectors





¹⁾ For 2 A, 4 A, 6 A fuses

Switch disconnectors with fuse

Quick selection guide



3KF LV HRC



Size			1	1	1	2	2	3	4	5	5		
General technical specifications acc. t	o IEC 60947-3												
Basic data													
Rated uninterrupted current I,		Α	32	63	80	125	160	250	400	630	800		
For fuse links acc. to IEC 60269-2				(000 and 0	00		0 and 1	1 and 2	2 aı	nd 3		
Rated operational voltage U _e	At 50/60 Hz AC	V AC					690						
	At DC - 2 conducting paths in series	V DC					220						
	At DC - 3 conducting paths in series	V DC					440						
	At DC	V DC					-						
Operating and short-circuit behavior													
Rated operational current I _e 1)	At AC-21A AC-21B at 400 V	А	32	63	80	125	160	250	400	630	800		
	At AC-21A AC-21B at 500 V	Α	_	-	-	-	_	_	_	_	_		
	At AC-21A AC-21B at 690 V	Α	32	63	80	125	160	250	400	630	800		
	At AC-22A AC-22B at 400 V	A	32	63	80	125	160	250	400	630	800		
	At AC-22A AC-22B at 500 V	Α	_	_	_	_	_	_	_	_	-		
	At AC-22A AC-22B at 690 V	А	32	63	80	125	160	250	400	630	800		
	At AC-23A AC-23B at 400 V	A	32	63	80	125	160	250	400	630	800		
	At AC-23A AC-23B at 500 V	Α	_	_	_	_	_	_	_	_	_		
	At AC-23A AC-23B at 690 V	A	32	63	80	125	160	250	400	630	800		
	At DC-21A DC-21B at 48 V	A	_	-	_	-	_	_	_	_	_		
	At DC-21A DC-21B at 110 V	A	_	_	_	_	_	_	_	_	_		
	At DC-21A DC-21B at 220 V	A	32	63	80	125	160	250	400	630	800		
	At DC-21A DC-21B at 400 V	A	_	-	_	-	-	_	-	-	_		
	At DC-21A DC-21B at 440 V	A	32	63	80	125	160	250	400	630	800		
	At DC-22A DC-22B at 48 V	A	-	-	-	-	-	_	-		_		
	At DC-22A DC-22B at 40 V	A	_	_	_	_	_	_	_	_	_		
	At DC-22A DC-22B at 110 V At DC-22A DC-22B at 220 V	A	32	63	80	125	160	250	400	630	800		
	At DC-22A DC-22B at 220 V At DC-22A DC-22B at 400 V	A	- -	-	-	125	-	250	400	-	-		
		A	32	63	80	125	160	250	400	630	800		
	At DC-22A DC-22B at 440 V							250	400				
	At DC-23A DC-23B at 48 V	A	-	_	_	-	-	-	-	_	_		
	At DC-23A DC-23B at 110 V	A	-	-	-	125	160	-	-	-	-		
	At DC-23A DC-23B at 220 V	A	32	63	80	125	160	250	400	630	800		
	At DC-23A DC-23B at 400 V	A	-	-	-			250	400	-	-		
4-4	At DC-23A DC-23B at 440 V	Α	32	63	80	125	160	250	400	630	800		
Motor switching capacity ²⁾	At AC-23A at 400 V	kW	15	30	37	55	90	132	220	355	400		
	At AC-23A at 500 V	kW	18.5	37	55	75	110	160	280	400	560		
	At AC-23A at 690 V	kW	30	55	75	110	132	250	400	630	800		
Rated conditional short-circuit current vith upstream fuse 3)	At 400/500 V AC	kA	100	100	100	100	100	100	100	100	100		
<u> </u>	At 690 V AC	kA	100	100	100	100	100	100	100	80	80		
et-through current I _c of usable fuses, max. ³⁾	At 400/500 V AC At 690 V AC	kA kA	11.8 11.5	11.8 11.5	11.8 11.5	18 25.5	18 25.5	33.7 37.7	37.1 47	77.4 65	77.4 65		
et-through current I ² t value	At 400/500 V AC	kA ² s	34	34	34	223	223	1500	2150	10400	10400		
of usable fuses, max. 3)	At 690 V AC	kA ² s	55	55	55	360	360	940	2600	7000	7000		
Maximum power loss of the usable fuse		W	6.5	7.5	8.5	11	12	25.5	34	48	60		
Degree of protection													
Maximum IP degree of protection (with	a rotary operating mechanism)					IP65				IP	65		
Maximum IP degree of protection	, , , , , , , , , , , , , , , , , , ,					•••							

¹⁾ Values valid even at +10% line voltage tolerance in case of AC

Maximum IP degree of protection

²⁾ Values are provided as a guide only and may vary depending on the make of motor

 $^{^{\}rm 3)}$ Valid for combination of 3KF and fuse type 3NA/3ND, characteristic gG/aM



Size

Switch disconnectors with fuse

Quick selection guide (continued)

General technical specifications acc. to UL







Basic data												
Certification according to UL standar	rd		_	-	-	-	-	-	-	-	-	
I _n acc. to UL 508		_	-	-	-	-	-	-	-	-		
U _e acc. to UL 508		_	-	_	_	-	_	-	_	-		
Operating and short-circuit behavi	or											
Operational power, three-phase	At 240 V	kA	-	-	-	-	-	-	-	-	-	
	At 480 V	kA	-	-	-	-	-	-	-	-	-	
	At 600 V	kA	_	-	-	_	_	_	-	_	-	
Short circuit current rating (SCCR)			-	-	-	-	-	-	-	-	-	
Fuse type			-	-	-	-	-	-	-	-	-	
More information												
Catalog LV 10			See page 8/96									
Technical specifications						C	onfigurati	ion in Sim	naris			



3KF LV HRC and 3KF SITOR switch disconnectors

System overview

Complete assemblies with direct operating mechanisms



mechanisms, 3-pole



Front operating mechanisms, 4-pole

Basic units



Front operating mechanisms, 3-pole



Front operating mechanisms, 4-pole



Lateral operating mechanisms, 3-pole



Lateral operating mechanisms, 4-pole



Additional poles



4th contact elements



N terminals



N/PE terminals



Auxiliary switch modules

Operating mechanisms



Direct operating mechanisms



Door-coupling rotary operating mechanisms



Handles for door-coupling





Other accessories for door-coupling rotary operating mechanisms rotary operating mechanisms

Other accessories and spare parts



Auxiliary switches



Fuse monitoring





Terminal covers



Mounting elements



3KF LV HRC and 3KF SITOR switch disconnectors

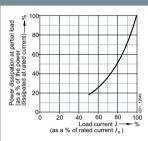
General information



Suitable fuses

You will find furthe information under:





The 3KF switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2. These include fuses for cable and line protection and motor protection. Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the switch disconnector with fuses is not exceeded. For use of Siemens semiconductor fuses (SITOR), ready-made derating tables are available in the linked document.

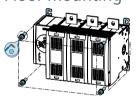


Types of mounting

You will find further information under:

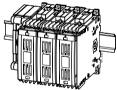


Floor mounting



All 3KF switch disconnectors with fuses are designed for floor mounting.

Standard mounting rail



Size 1 can be snapped onto a standard mounting rail (TH35 according to EN 60715) as an alternative mounting method.



Electrical connection

Box terminals



The box terminals for size 1 (32 A ... 80 A) are designed to allow the rapid connection of stripped conductors.

Flat terminals

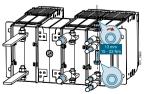


Sizes 2 ... 5 are available with flat terminals, for the connection of cable lugs or busbar systems.

You will find further information under:



Flat terminals at rear



Sizes 1 and 2 (32 A, 63 A and 125 A) are available with rear flat terminals, for the connection of cable lugs or busbar systems.

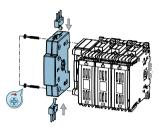


Auxiliary switch modules and auxiliary switches

You will find further information under:



Size 1



The auxiliary switches used for size 1 are microswitches (changeover contacts), which can be snapped into an auxiliary switch module. This auxiliary switch module is mounted on the side of the switch disconnector with fuses in the same way as an additional pole. A maximum of two microswitches can be installed in each auxiliary switch module.

Sizes 2 ... 5



For sizes 2 ... 5, the auxiliary switches are directly attached to the operating mechanism module. The auxiliary switch with the leading switch function is always installed in the right-hand mounting location. The other locations are provided for simultaneously switching with the main contacts. Auxiliary switches with spring-type terminals from the 3SU1 range can also be used.



Differentiation 3KF SITOR and derating tables for SITOR fuses

You will find further information under:



Size 1





3KF SITOR is a variation of the proven switch disconnector with 3KF LV HRC fuses and provides optimized heat dissipation and permits the use of fuses with substantially higher power losses. All 3KF SITOR types are approved according to UL508.

Sizes 2 ... 5

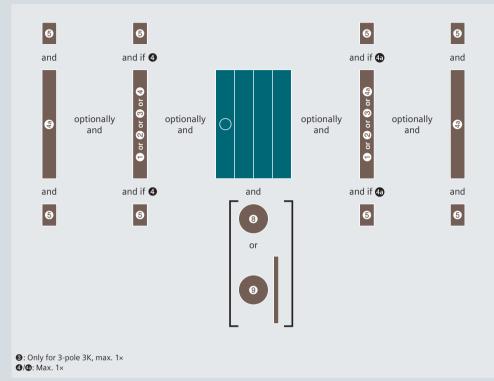


Siemens provides you with pretested load currents of the SITOR semiconductor fuses for installation in the 3KF SITOR. The derating tables are provided both for IEC constraints and for UL constraints and are intended to help you with selection. The permissible load faults for the 3KF LV HRC were calculated from the test results of the 3KF SITOR.

3KF LV HRC and 3KF SITOR switch disconnectors

Mounting concept and accessories 3KF

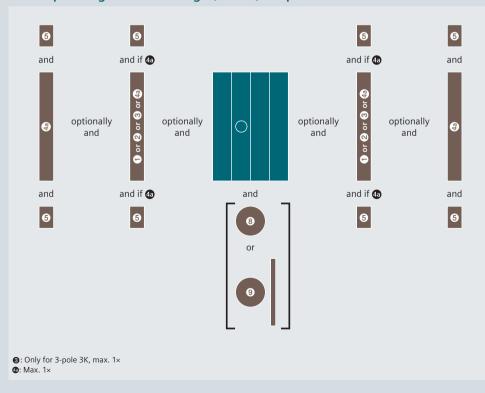
Front operating mechanism left, size 1, 3/4-pole



Legend

- Neutral conductor terminal
- N/PE terminal
- 3 4th contact element
- Auxiliary switch module, leading, with test function
- 4 Auxiliary switch module for auxiliary switches
- 6 Auxiliary switch
- 3 Direct operating mechanism
- Door-coupling rotary operating mechanism

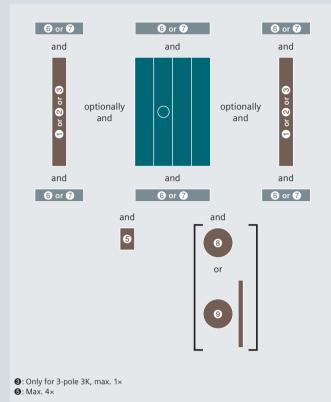
Front operating mechanism right, size 1, 3/4-pole



Legend

- Neutral conductor terminal
- N/PE terminal
- 3 4th contact element
- 49 Auxiliary switch module for auxiliary switches
- 6 Auxiliary switch
- 3 Direct operating mechanism
- Door-coupling rotary operating mechanism

Front operating mechanism center or left, sizes 2 to 5, 3/4-pole



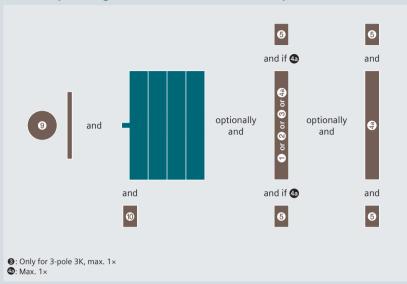
Legend

- Neutral conductor terminal
- N/PE terminal
- **3** 4th contact element
- 6 Auxiliary switch
- **6** Phase barrier
- Terminal cover
- 8 Direct operating mechanism
- Door-coupling rotary operating mechanism

3KF LV HRC and 3KF SITOR switch disconnectors

Mounting concept and accessories 3KF

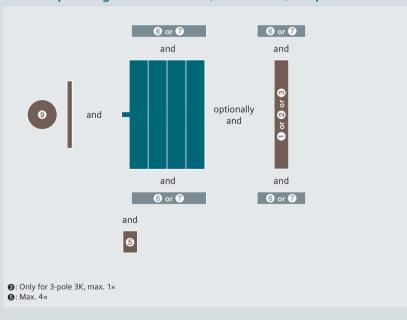
Lateral operating mechanism left, size 1, 3/4-pole



Legend

- Neutral conductor terminal
- N/PE terminal
- **3** 4th contact element
- 4 Auxiliary switch module for auxiliary switches
- 6 Auxiliary switch
- Door-coupling rotary operating mechanism
- Lateral auxiliary switch module

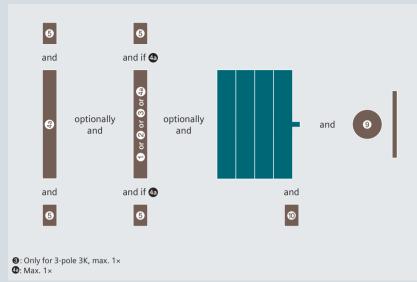
Lateral operating mechanism left, sizes 2 to 5, 3/4-pole



Legend

- Neutral conductor terminal
- N/PE terminal
- 3 4th contact element
- 6 Auxiliary switch
- 6 Phase barrier
- Terminal cover
- Door-coupling rotary operating mechanism

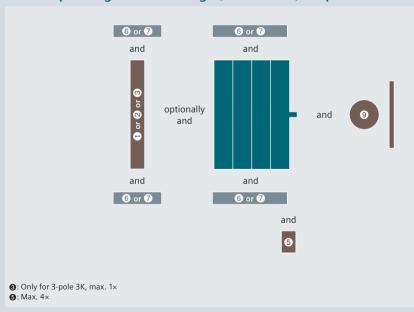
Lateral operating mechanism right, size 1, 3/4-pole



Legend

- 1 Neutral conductor terminal
- N/PE terminal
- 3 4th contact element
- 4 Auxiliary switch module for auxiliary switches
- 6 Auxiliary switch
- Door-coupling rotary operating mechanism
- Lateral auxiliary switch module

Lateral operating mechanism right, sizes 2 to 5, 3/4-pole



Legend

- Neutral conductor terminal
- N/PE terminal
- 3 4th contact element
- 6 Auxiliary switch
- **6** Phase barrier
- Terminal cover
- Door-coupling rotary operating mechanism

3KF LV HRC switch disconnector











Complete asse	emblies with dir	rect operating
mechanisms,	front operating	mechanisms
l eft		

4P

Basic units without handle, front operating mechanisms

0

Front operating mechanism Center

3P			
ш		Д	Д,
	0		
-			

Size	Uninterrupted current l _u	l				
Box term	inals					
1	32 A	3KF1303-2LB11	3KF1403-2LB11	3KF1303-0LB11	3KF1403-0LB11	3KF1303-0MB11
	63 A	3KF1306-2LB11	3KF1406-2LB11	3KF1306-0LB11	3KF1406-0LB11	3KF1306-0MB11
	80 A	3KF1308-2LB11	3KF1408-2LB11	3KF1308-0LB11	3KF1408-0LB11	3KF1308-0MB11
Flat term	ninals at rear					
1	32 A	-	-	-	-	3KF1303-0MR11
	63 A	-	-	-	-	3KF1306-0MR11
2	125 A	-	-	-	-	3KF2312-0MR11
Flat term	ninals					
2	125 A	3KF2312-2LF11	3KF2412-2LF11	3KF2312-0LF11	3KF2412-0LF11	3KF2312-0MF11
	160 A	3KF2316-2LF11	3KF2416-2LF11	3KF2316-0LF11	3KF2416-0LF11	3KF2316-0MF11
3	250 A	3KF3325-2LF11	3KF3425-2LF11	3KF3325-0LF11	3KF3425-0LF11	3KF3325-0MF11
4	400 A	3KF4340-2LF11	3KF4440-2LF11	3KF4340-0LF11	3KF4440-0LF11	3KF4340-0MF11
5	630 A	3KF5363-2LF11	3KF5463-2LF11	3KF5363-0LF11	3KF5463-0LF11	3KF5363-0MF11
	800 A	3KF5380-2LF11	3KF5480-2LF11	3KF5380-0LF11	3KF5480-0LF11	3KF5380-0MF11

0

• NH00 and NH000: For 3KF sizes 1 and 2

Number of poles 3P

- NH1 and NH0: For 3KF size 3
- NH2 and NH1: For 3KF size 4
- NH3 and NH2: For 3KF size 5
- For 3KF with lateral operating mechanism (left or right), only door-coupling rotary operating mechanisms without "Test" can be used.



3KF5480-0MF11



Lateral operating

3KF5380-4LF11





Lateral operating



3KF5480-4RF11

	mechanism Left		mechanism Right	
4P	3P	4P	3P	4P
3KF1403-0MB11	3KF1303-4LB11	3KF1403-4LB11	3KF1303-4RB11	3KF1403-4RB11
3KF1406-0MB11	3KF1306-4LB11	3KF1406-4LB11	3KF1306-4RB11	3KF1406-4RB11
3KF1408-0MB11	3KF1308-4LB11	3KF1408-4LB11	3KF1308-4RB11	3KF1408-4RB11
-	-	-	-	-
_	-	-	-	-
-	-	-	-	-
3KF2412-0MF11	3KF2312-4LF11	3KF2412-4LF11	3KF2312-4RF11	3KF2412-4RF11
3KF2416-0MF11	3KF2316-4LF11	3KF2416-4LF11	3KF2316-4RF11	3KF2416-4RF11
3KF3425-0MF11	3KF3325-4LF11	3KF3425-4LF11	3KF3325-4RF11	3KF3425-4RF11
3KF4440-0MF11	3KF4340-4LF11	3KF4440-4LF11	3KF4340-4RF11	3KF4440-4RF11
3KF5463-0MF11	3KF5363-4LF11	3KF5463-4LF11	3KF5363-4RF11	3KF5463-4RF11

3KF5480-4LF11 3KF5380-4RF11

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3KF SITOR switch disconnectors



Number of poles 3P

ı			П	
ı	0			
ľ		$\overline{}$		╙

3P			
Д			Д
	0		
П		П	П

Size	Uninterrupted current I _u		
Box terminals			
1	32 A	3KF1303-0LB51	-
	63 A	3KF1306-0LB51	-
	80 A	3KF1308-0LB51	-
Flat terminals			
2	125 A	-	3KF2312-0MF51
	160 A	-	3KF2316-0MF51
3	250 A	-	3KF3325-0MF51
4	400 A	-	3KF4340-0MF51
5	630 A	-	3KF5363-0MF51
	800 A	-	3KF5380-0MF51

Note:

• Use of standard LV HRC fuses gG, gL, aM in 3KF SITOR is possible without restriction

Accessories

For 3KF LV HRC and 3KF SITOR switch disconnectors

Additional poles

- Note:

 Additional poles (4th contact element, N or N/PE terminal) must always be mounted directly adjacent to the switch disconnector on the left or right.
- For installation, it is important to note that only a 3-pole 3KF switch disconnector may be retrofitted with an additional switching pole with contact system (4th contact element).

			Size 1	Size 2	Size 3	Size 4	Size 5
4th conta	ct element (switching pole) for 3KF LV HRC						
	Connection	Article No.					
Mac	Box terminals	3KF9105-2AA00					
	Flat terminals at rear	3KF9105-1AA00					
(4) p 1		3KF9205-1AA00					
-very profile	Flat terminals	3KF9205-0AA00		-			
		3KF9305-0AA00					
		3KF9405-0AA00					
		3KF9505-0AA00					
4th conta	ct element (switching pole) for 3KF SITOR						
	Connection	Article No.					
1	Box terminals	3KF9105-2BA00					
	Flat terminals	3KF9205-0BA00					
		3KF9305-0BA00					
		3KF9405-0BA00					
		3KF9505-0BA00					
Neutral co	onductor terminals with removable jumper, for	3KF LV HRC and 3KF SITOR					
4	Connection	Article No.					
	Box terminals	3KF9106-2AA00	-				
	Flat terminals at rear	3KF9106-1AA00					
		3KF9206-1AA00					
	Flat terminals	3KF9206-0AA00					
		3KF9306-0AA00					
		3KF9406-0AA00					
		3KF9506-0AA00					-
I/PE term	inals with permanent jumper, for 3KF LV HRC a	nd 3KF SITOR					
	Connection	Article No.					
	Box terminals	3KF9106-8AA00					
11	Flat terminals at rear	3KF9106-6AA00					
		3KF9206-6AA00					
	Flat terminals	3KF9206-7AA00					
		3KF9306-7AA00					
		3KF9406-7AA00					
		3KF9506-7AA00					

Operating	Operating mechanisms						Size 4	Size 5
Direct opera	ating mechanisms, for 3KF LV HRC							
	Version	Color	Article No.					
	Can be locked with up to 3 padlocks	Gray	3KF9101-1AA00					
			3KF9201-1AA00					
		3KF9401-1AA0	3KF9301-1AA00					
			3KF9401-1AA00					
			3KF9501-1AA00					
			3KF9101-2AA00					
			3KF9201-2AA00					
			3KF9301-2AA00					
			3KF9401-2AA00					
			3KF9501-2AA00					-

Accessories

For 3KF LV HRC and 3KF SITOR switch disconnectors

Operating	mechanisms				Size 1	Size 2	Size 3	Size 4	Size 5
Door-coupling	rotary operating n	nechanisms, for 3KF L	V HRC and 3KF SITOR						
	 Scope of supply: Handle with m 	nasking plate er with tolerance compe n							
	Labeling		Color	Article No.					
	Labeling Test – O – I		Gray	8UD1171-2AF21					
				8UD1141-2AF21					
				8UD1141-3AF21					
				8UD1151-3AF21					
				8UD1161-4AF21					
			Red/yellow	8UD1171-2AF25					
			neary energ	8UD1141-2AF25					
				8UD1141-3AF25		_			
				8UD1151-3AF25			_		
				8UD1161-4AF25					
Handles for 3	KF LV HRC and 3KF	SITOR		00D1101-4A123					
Hallules, 101 5	With masking pla	ate							
	Can be locked wi		6.1	A 22 1 - 22					
_	Labeling	Lighting	Color	Article No.					
	0-1	Without	Gray	8UD1771-2AD01	•				
				8UD1841-2AD01		-	-		
				8UD1851-3AD01				-	
			D = 1/1 - 1	8UD1861-4AD01					-
			Red/yellow	8UD1771-2AD05	•	_	_		
				8UD1841-2AD05		-	-	_	
				8UD1851-3AD05 8UD1861-4AD05				-	
		With	Gray	8UD1771-2CD01	_				-
		VVICII	Gray	8UD1841-2CD01	_				
				8UD1851-3CD01		-	-		
				8UD1861-4CD01				-	
			Red/yellow	8UD1771-2CD05					
				8UD1841-2CD05					
				8UD1851-3CD05					
				8UD1861-4CD05					
	Test-O-I	Without	Gray	8UD1771-2AF01	-				
				8UD1841-2AF01					
				8UD1851-3AF01					
				8UD1861-4AF01					
			Red/yellow	8UD1771-2AF05					
				8UD1841-2AF05					
				8UD1851-3AF05				-	
				8UD1861-4AF05					
		With	Gray	8UD1771-2CF01	•				
				8UD1841-2CF01		•	-		
				8UD1851-3CF01					
				8UD1861-4CF01					-
			Red/yellow	8UD1771-2CF05	•				
				8UD1841-2CF05		-			
				8UD1851-3CF05				•	
				8UD1861-4CF05					

Operating	perating mechanisms				Size 3	Size 4	Size 5
Extension sha	ft, for 3KF LV HRC and 3KF SITOR						
73	A shaft jack is required for the 8UD1 handle when the 600 mm long shaft is used and for sizes 1 and 2						
	Length	Article No.					
-75h	300 mm	8UC6032					
		8UC6033					
		8UC6034					
	600 mm	8UC6082					
		8UC6083			-		
		8UC6084					•
Shaft jack for	8UD1 handle, for 3KF LV HRC and 3KF SITOR						
6	Version	Article No.					
	For shaft 600 mm	8UD1900-0FA00	•	•			
Coupling drive	ers, for 3KF LV HRC and 3KF SITOR						
	Version	Article No.					
4	With tolerance compensation	8UD1900-2GA00	-				
		8UD1900-6GA00					
		8UD1900-3GA00					
		8UD1900-4GA00					-
T.	Without tolerance compensation	8UD1900-2HA00					
		8UD1900-6HA00					
		8UD1900-3HA00					
		8UD1900-4HA00					-
Shaft coupling	gs, for 3KF LV HRC and 3KF SITOR						
	Shaft size	Article No.					
	8 × 8 mm	8UC6022					
	10 × 10 mm	8UC6023					
	12 × 12 mm	8UC6024					-

Other acce	ssories and spare parts		Size 1	Size 2	Size 3	Size 4	Size 5
Auxiliary swit	ch modules, for 3KF LV HRC and 3KF SITOR						
	 Auxiliary switch modules are supplied without auxiliary switches The 3KF9112-0AB00 mounting bracket is additionally required for mounting the auxiliary switch modules with the rear terminal The 3KD9103-6 and 3KD9103-7 auxiliary switch modules and those with a leading NO contact can only be used with 3KF if they have the operating mechanism on the front or on the left 						
	Variant	Article No.					
	Standard version	3KD9103-5		-			
θ.	With test function	3KD9103-6					
	With leading NO contact and test function	3KD9103-7		-			
Mounting bra	ckets for auxiliary switch modules, for 3KF size 1 with rear termi	nals					
	For mounting auxiliary switch modules on 3KF switch disconnectors with rear terminal						
		Article No.					
		3KF9112-0AB00	•				

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Accessories

For 3KF LV HRC and 3KF SITOR switch disconnectors

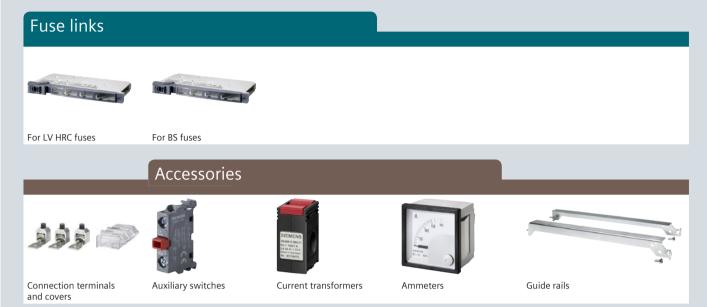
ther acc	accessories and spare parts						JIZE J	Size 4	SIZC .
uxiliary sw	vitches, for 3KF LV HRC and	3KF SITOR							
	 Auxiliary switches for siz are mounted on the ope Auxiliary switches with s 3SU1 range can also be All auxiliary switches for auxiliary switches, depe auxiliary switch (see Op 								
	Variant	Contacts	Contact surface	Article No.					
⊨ _{i =}	With connecting cables	1 CO	Standard	3KD9103-1					
=			Solid-state compatible	3KD9103-3					
	Without connecting cable	1 CO	Standard	3KD9103-2					
			Solid-state compatible	3KD9103-4					
9		1 NO	Standard	3SU1400-1AA10-1BA0					-
			Gold-plated	3SU1400-1AA10-1LA0					
		1 NC	Standard	3SU1400-1AA10-1CA0					
			Gold-plated	3SU1400-1AA10-1MA0					
		1 NO + 1 NC	Standard	3SU1400-1AA10-1FA0					
			Gold-plated	3SU1400-1AA10-1QA0					
		2 NO	Standard	3SU1400-1AA10-1DA0		-			
			Gold-plated	3SU1400-1AA10-1NA0					
		2 NC	Standard	3SU1400-1AA10-1EA0					
			Gold-plated	3SU1400-1AA10-1PA0					
			OB						
ectronic fu	use monitoring, for 3KF LV I	HRC and 3KF SIT	UK						
lectronic fu	Version		OK	Article No. 3KF9010-1AA00					
	Version For remote display of tripped	ed fuses	OK .		٠	٠	٠	•	•
	Version For remote display of trippers, for 3KF LV HRC and 3KF	ed fuses		3KF9010-1AA00	•	•	•	_	•
	Version For remote display of trippers, for 3KF LV HRC and 3KF Version	ed fuses SITOR Scope of supply		3KF9010-1AA00 Article No.		_	_	_	
	Version For remote display of trippers, for 3KF LV HRC and 3KF	ed fuses		3KF9010-1AA00 Article No. 3KD9308-6			•	•	•
	Version For remote display of trippers, for 3KF LV HRC and 3KF Version	ed fuses SITOR Scope of supply		Article No. 3KD9308-6 3KD9408-6	•	•			•
	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices	ed fuses SITOR Scope of supply 6 units		Article No. 3KD9308-6 3KD9408-6 3KD9508-6	•		•		
	Version For remote display of trippers, for 3KF LV HRC and 3KF Version	ed fuses SITOR Scope of supply		Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9308-8	•	•		•	
	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices	ed fuses SITOR Scope of supply 6 units		Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9308-8 3KD9408-8	•				
hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices	ed fuses SITOR Scope of supply 6 units		Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9308-8	•				
nase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices	ed fuses SITOR Scope of supply 6 units 8 units		Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9408-8 3KD9408-8 3KD9508-8					•
nase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices vers, for 3KF LV HRC Version	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply	Variant	Article No. 3KP9010-1AA00 Article No. 3KD9308-6 3KD9408-6 3KD9308-8 3KD9408-8 3KD9508-8 Article No.		•			•
nase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices	ed fuses SITOR Scope of supply 6 units 8 units		Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9408-8 3KD9508-8 Article No. 3KD9304-6					
nase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices vers, for 3KF LV HRC Version	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply	Variant	Article No. 3KP9010-1AA00 Article No. 3KD9308-6 3KD9408-6 3KD9308-8 3KD9408-8 3KD9508-8 Article No. 3KD9304-6 3KF9304-6		•			
nase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices vers, for 3KF LV HRC Version	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply	Variant	Article No. 3KP9010-1AA00 Article No. 3KD9308-6 3KD9408-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KP9304-6 3KD9404-6		•			
nase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices vers, for 3KF LV HRC Version	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply	Variant Standard length	Article No. 3KP9010-1AA00 Article No. 3KD9308-6 3KD9408-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KP9304-6 3KD9404-6 3KD9404-6 3KD9504-6		•			
nase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices vers, for 3KF LV HRC Version	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply	Variant	Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9408-8 3KD9508-8 Article No. 3KD9304-6 3KP9304-6 3KD9404-6 3KD9404-6 3KD9504-6 3KD9504-7		•			
hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices vers, for 3KF LV HRC Version	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply	Variant Standard length	Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KP9304-6 3KD9404-6 3KD9404-6 3KD9504-6 3KD9504-7 3KF9304-7		•			
hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices Vers, for 3KF LV HRC Version For 3-pole devices	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply 6 units	Variant Standard length Short version	Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KF9304-6 3KD9304-6 3KD9304-7 3KD9304-7 3KD9404-7		•			
hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices For 4-pole devices vers, for 3KF LV HRC Version	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply	Variant Standard length	Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KD9304-6 3KD9304-6 3KD9304-6 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7		•			
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hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices Vers, for 3KF LV HRC Version For 3-pole devices	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply 6 units	Variant Standard length Short version	Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KD9304-6 3KD9304-6 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7 3KD9404-7 3KD9404-8 3KD9304-8		•			
hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices Vers, for 3KF LV HRC Version For 3-pole devices	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply 6 units	Variant Standard length Short version Standard length	Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KD9304-6 3KD9304-6 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-8 3KF9304-8		•			
hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices Vers, for 3KF LV HRC Version For 3-pole devices	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply 6 units	Variant Standard length Short version	Article No. 3KD9308-6 3KD9408-6 3KD9508-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KD9304-6 3KD9304-6 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7 3KD9304-7 3KD9404-7 3KD9404-8 3KD9304-8		•			
hase barrie	Version For remote display of trippers, for 3KF LV HRC and 3KF Version For 3-pole devices Vers, for 3KF LV HRC Version For 3-pole devices	ed fuses SITOR Scope of supply 6 units 8 units Scope of supply 6 units	Variant Standard length Short version Standard length	Article No. 3KP9010-1AA00 Article No. 3KD9308-6 3KD9408-6 3KD9508-8 3KD9508-8 Article No. 3KD9304-6 3KD9304-6 3KD9304-6 3KD9504-6 3KD9504-7 3KP9304-7 3KP9304-7 3KP9304-8 3KP9304-8 3KP9304-8 3KD9504-8 3KD9504-8					

	cessories and spar	<u> </u>		Size 1	Size 2	Size 3	Size 4	Size
oare part	for terminal covers, for							
	Scope of supply	Variant	Article No.					
	1 unit	Standard length	3KD9504-1					-
		Short version	3KD9304-1		-			
			3KF9304-1			•	_	
ockina n	in tact function for 2KF	IV LIBC and SVE SITOR	3KD9404-1	_			_	
ocking p	in test function, for 3KF	deactivation of the test function for						
	_ auxiliary switches	deactivation of the test function for						
		operating mechanism module of the						
	3KF switch disconn	ector						
	Scope of supply		Article No.	_				
	10 units		3KF9112-1AA00	-	_			
			3KF9412-1AA00		-		•	_
			3KF9512-1AA00	_				_
ounting	brackets, for 3KF LV HRC			_			_	
1.1		0 mounting bracket is needed if an dule is mounted on a 3KF1 with rear terminals						
,	Connection		Article No.					
	Box terminals, flat terminals	minals	3KF9112-0AA00					
			3KF9212-0AA00					
	Flat terminals at rear		3KF9212-0AB00		•			
lounting	brackets, for 3KF SITOR							
	Connection		Article No.					
	Box terminals, flat terminals	minals	3KF9112-0AA10					
			3KF9212-0AA10					
lounting	brackets, for 3KF LV HRC	and 3KE SITOR		_				
	Connection		Article No.					
7	Flat terminals		3KF9412-0AA00			_		
4			3KF9512-0AA00					
p.								
haco harr	iers, for 3KF LV HRC and	2VE SITOR	_	_				
liase pair	Version	Scope of supply	Article No.					
	For mounting on	5 units	3KF9112-0BA00					
	standard mounting ra		3KI 3112 0B/100					
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use cover	s, for 3KF LV HRC							
111	Connection		Article No.					
111	Box terminals, flat terminals	minais	3KF9112-0CA00	-	_			
111			3KF9212-0CA00		-			
111			3KF9312-0CA00			-		
			3KF9412-0CA00					_
	El		3KF9512-0CA00					_
	Flat terminals at rear		3KF9212-0CB00		-			
				NHOOO	NH00	NH1	NH2	NH
V HRC isc	lating blades, for 3KF LV	/ HRC and 3KF SITOR		1111000	111100	13111	11112	.411
1	Version		Article No.					
1	With insulated grip lu	gs	3NG1002					
			3NG1202			-		
			2NC1202					

3NG1302 3NG1402

3NJ62 switch disconnectors

System overview



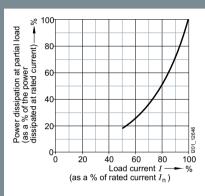
General information



Suitable fuses

You will find further information under:





The 3NJ62 switch disconnector with fuses is suitable for all fuses with LV HRC design in sizes 000 to 3 that comply with IEC 60269-2, including fuses for cable and line protection and motor protection.

Fuses for semiconductor protection (Siemens trademark SITOR) can also be used. However, some of these fuses have substantially higher power losses than fuses according to IEC 60269-2. This means that the load current has to be reduced until the value that is permissible in the switch disconnector with fuses is not exceeded.

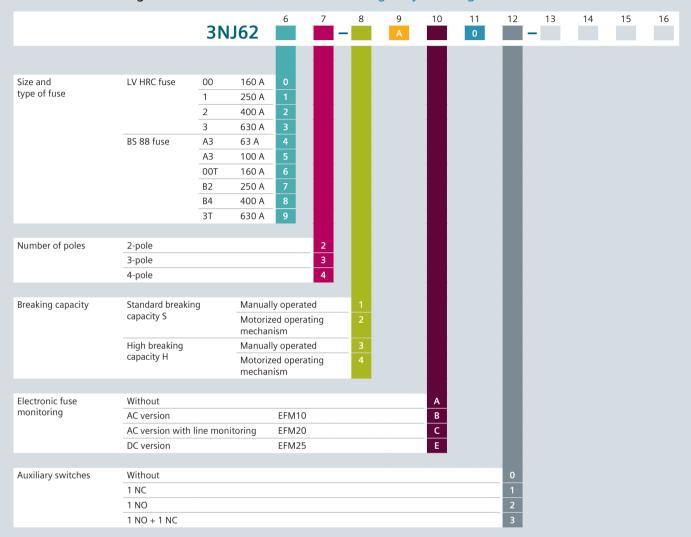
For use of Siemens semiconductor fuses (SITOR), ready-made derating tables are available in the linked document.

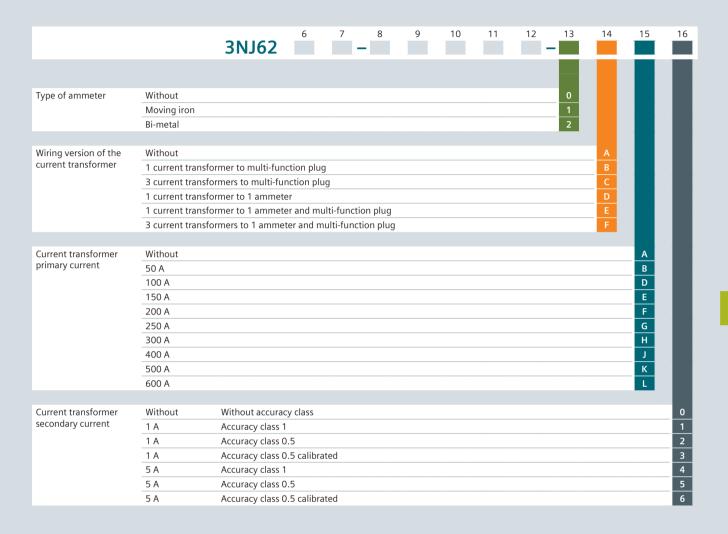
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3NJ62 switch disconnectors

Configuration

For complete and verified configuration of your switch disconnector with fuses, use our online configurator at www.siemens.com/lowvoltage/3nj62-configurator





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3NJ62 switch disconnectors

Accessories

Terminals			
Ĩ.	Variant		Article No.
	For 2/3-pole devices		3NJ6923-1BA00
.3			3NJ6933-1BA00
			3NJ6943-1CA00
	For 4-pole devices		3NJ6924-1BA00
			3NJ6934-1BA00
			3NJ6944-1CA00
Terminal covers			
	Variant	Version	Article No.
	For 2/3-pole devices	-	3NJ6923-1DA00
and the second			3NJ6933-1DA01
			3NJ6943-1DA00
		As an internal terminal cover	3NJ6933-1DB00
	For 4-pole devices		3NJ6904-1DA00
Contact extension	ns		
(a	Number of poles	Version	Article No.
	3-pole	-	3NJ6923-1EB00
			3NJ6933-1EB00
			3NJ6943-1EB00
	4-pole	With line monitoring for AC networks	3NJ6924-1EB00
			3NJ6934-1EB00
			3NJ6944-1EB00
Electronic fuse m	nonitoring and line monitoring		
77	Variant	Version	Article No.
10	EFM 10	-	3NJ6920-3FB00
STATE STATES STATES			3NJ6930-3FB00
			3NJ6940-3FB00
	EFM 20	With line monitoring for AC networks	3NJ6920-3FC00
			3NJ6930-3FC00
			3NJ6940-3FC00
	EFM 25	-	3NJ6920-3FE00
			3NJ6930-3FE00
			3NJ6940-3FE00
Auxiliary switche		Manalana Manalana	Austria Na
	Contacts	Version	Article No.
	1 NO contact (1 NO)	With cover	3NJ6920-2BB00
			3NJ6930-2BB00
		Without cover	3NJ6940-2BB00
	1 NC contact (1 NC)	With cover	3NJ6900-2BC00
	1 NC contact (1 NC)	With cover	3NJ6920-2CB00
			3NJ6930-2CB00
		Without cover	3NJ6940-2CB00
		Without cover	3NJ6900-2CC00

NH00	NH1	NH2	NH3	BS A3	BS 00T	BS B2	BS B4	BS 3T
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3NJ62 switch disconnectors

Accessories

Current transformers for main devices and contact extensions



Rated current I _e	Class	Apparent power consumption	Feed-through opening diameter	Article No.
50 A/1 A	1	1 VA	Ø 21 mm	3NJ6920-3BB11
50 A/5 A	1	1 VA	Ø 21 mm	3NJ6920-3BB21
100 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BD11
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BD12
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BD13
100 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BD21
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BD22
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BD23
150 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BE11
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BE12
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BE13
150 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6920-3BE21
	0.5	1.5 VA	Ø 21 mm	3NJ6920-3BE22
	0.5 calibrated	1.5 VA	Ø 14 mm	3NJ6920-3BE23
200 A/1 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BF11
	0.5	5 VA	Ø 21 mm	3NJ6930-3BF12
200 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BF21
	0.5	5 VA	Ø 21 mm	3NJ6930-3BF22
250 A/1 A	1	5 VA	Ø 21 mm	3NJ6930-3BG11
	0.5	5 VA	Ø 21 mm	3NJ6930-3BG12
250 A/5 A	1	2.5 VA	Ø 21 mm	3NJ6930-3BG21
	0.5	2.5 VA	Ø 21 mm	3NJ6930-3BG22
300 A/1 A	1	5 VA	-	3NJ6940-3BH11
	0.5	5 VA	-	3NJ6940-3BH12
	0.5 calibrated	5 VA	-	3NJ6940-3BH13
300 A/5 A	1	5 VA	-	3NJ6940-3BH21
	0.5	5 VA	-	3NJ6940-3BH22
	0.5 calibrated	5 VA	-	3NJ6940-3BH23
400 A/1 A	1	5 VA	-	3NJ6940-3BJ11
	0.5	5 VA	-	3NJ6940-3BJ12
	0.5 calibrated	5 VA	-	3NJ6940-3BJ13
400 A/5 A	1	5 VA	-	3NJ6940-3BJ21
	0.5	5 VA	-	3NJ6940-3BJ22
	0.5 calibrated	5 VA	-	3NJ6940-3BJ23
500 A/1 A	1	5 VA	-	3NJ6940-3BK11
	0.5	5 VA	-	3NJ6940-3BK12
	0.5 calibrated	5 VA	-	3NJ6940-3BK13
500 A/5 A	1	5 VA	-	3NJ6940-3BK21
	0.5	5 VA	-	3NJ6940-3BK22
	0.5 calibrated	5 VA	_	3NJ6940-3BK23
600 A/1 A	1	5 VA	-	3NJ6940-3BL11
	0.5	5 VA	-	3NJ6940-3BL12
	0.5 calibrated	5 VA	-	3NJ6940-3BL13
600 A/5 A	1	5 VA	-	3NJ6940-3BL21
	0.5	5 VA	-	3NJ6940-3BL22
	0.5 calibrated	5 VA	-	3NJ6940-3BL23

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NH00	NH1	NH2	NH3	BS A3	BS 00T	BS B2	BS B4	BS 3T
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3NJ62 switch disconnectors

Accessories

Type						
- ALL ST.	Variant	Version		Article No.		
	For current transformers	For 1 current transformer		3NJ6920-3DB00		
	with feed-through opening			3NJ6930-3DB00		
ders	diameter 21 mm	For 3 current transformers		3NJ6920-3DC00		
				3NJ6930-3DC00		
		For 4 current transformers		3NJ6920-3DD00		
				3NJ6930-3DD00		
	For current transformers	For 1 current transformer		3NJ6920-3DE00		
	with feed-through opening	For 3 current transformers		3NJ6920-3DF00		
	diameter 14 mm	For 4 current transformers		3NJ6920-3DG00		
ors				_		
ers	Version			Article No.		
. Imm	For ammeters			3NJ6900-4GA00		
ieters	Variant	Version	Rated current I _e	Article No.		
	Moving-iron	For measurements on transformer x/1 A	50 A/1 A	3NJ6900-4HB11		
	measuring instruments	with double overload	100 A/1 A	3NJ6900-4HD11		
V	J - 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3- 3		150 A/1 A	3NJ6900-4HE11		
			200 A/1 A	3NJ6900-4HE11		
			250 A/1 A	3NJ6900-4HG11		
			300 A/1 A	3NJ6900-4HH11		
			400 A/1 A	3NJ6900-4HJ11		
			500 A/1 A	3NJ6900-4HK11		
			600 A/1 A	3NJ6900-4HL11		
		For measurements on transformer x/5 A with double overload	50 A/5 A	3NJ6900-4HB21		
		with double overload	100 A/5 A	3NJ6900-4HD21		
			150 A/5 A	3NJ6900-4HE21		
			200 A/5 A	3NJ6900-4HF21		
			250 A/5 A	3NJ6900-4HG21		
			300 A/5 A	3NJ6900-4HH21		
			400 A/5 A	3NJ6900-4HJ21		
			500 A/5 A	3NJ6900-4HK21		
			600 A/5 A	3NJ6900-4HL21		
	Bi-metal	For measurements on transformer x/1 A	50 A/1 A	3NJ6900-4HB12		
	measuring instruments	with 1.2-times overload	100 A/1 A	3NJ6900-4HD12		
			150 A/1 A	3NJ6900-4HE12		
			200 A/1 A	3NJ6900-4HF12		
_			250 A/1 A	3NJ6900-4HG12		
			300 A/1 A	3NJ6900-4HH12		
			400 A/1 A	3NJ6900-4HJ12		
			500 A/1 A	3NJ6900-4HK12		
			600 A/1 A	3NJ6900-4HL12		
		For measurements on transformer x/5 A	50 A/5 A	3NJ6900-4HB22		
		with 1.2-times overload	100 A/5 A	3NJ6900-4HD22		
			150 A/5 A	3NJ6900-4HE22		
			200 A/5 A	3NJ6900-4HF22		
			250 A/5 A	3NJ6900-4HG22		
			250 A/5 A 300 A/5 A	3NJ6900-4HG22 3NJ6900-4HH22		
			250 A/5 A	3NJ6900-4HG22		

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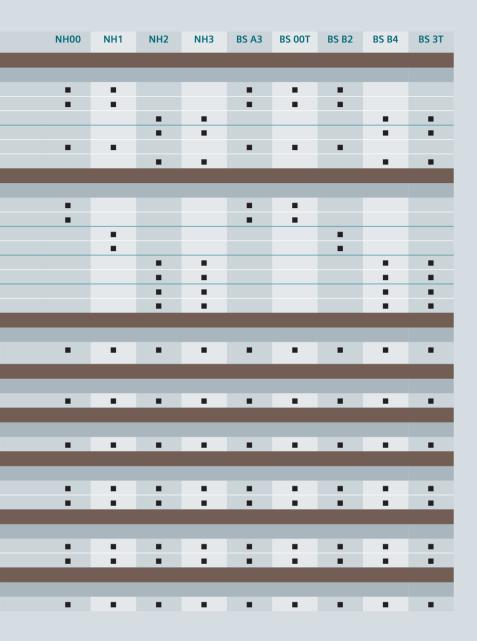
System overview, page 8/112 Siemens LV 10 · 10/2019 8/121

3NJ62 switch disconnectors

Accessories

Multi-function plu	ıgs		
	Version	Dimensions	Article No.
A A A A A A A A A A A A A A A A A A A	With fixing screws	6 × 2.5 mm ²	3NJ6920-3EB01
THE PARTY OF THE P		8 × 2.5 mm ²	3NJ6920-3ED01
	<u></u>		3NJ6940-3EC00
	Without fixing screws	$8 \times 2.5 \text{ mm}^2$	3NJ6940-3ED00
		$10 \times 1.5 \text{ mm}^2$ and $8 \times 2.5 \text{ mm}^2$	3NJ6920-3EE01
		$12 \times 1.5 \text{ mm}^2$ and $8 \times 2.5 \text{ mm}^2$	3NJ6940-3EF00
Front panels			
	Purpose	Version	Article No.
	3NJ6203-1AA and	With LV HRC fuse	3NJ6923-4BB00
	3NJ6203-3AA with/without EFM	With BS 88 fuse	3NJ6923-4BC00
	3NJ6213-1AA and	With LV HRC fuse	3NJ6933-4BB00
	3NJ6213-3AA with/without EFM	With BS 88 fuse	3NJ6933-4BC00
	3NJ6223-1AA and	With LV HRC fuse	3NJ6943-4BB00
	3NJ6223-3AA with/without EFM	With BS 88 fuse	3NJ6943-4BC00
	3NJ6233-1AA and	With LV HRC fuse	3NJ6953-4BB00
	3NJ6233-3AA with/without EFM	With BS 88 fuse	3NJ6953-4BC00
Busbar covers			
			Article No.
			3NJ6916-4EA00
Blanking covers			
Didriking covers			Article No.
27 27			3NJ6900-4CB00
Connection modu	les		
100			Article No.
The State of the S			3NJ6915-3BA00
Guide rails			
	Overall depth		Article No.
	200 mm		3NJ6900-4FB00
	400 mm		3NJ6900-4FC00
LV HRC fuse puller	r tongs		
	Version		Article No.
	For NH00		XPT:8PT9624
	For NH1, NH2, NH3		XPT:8PT9625
Locking devices fo			
			Article No.
			3NJ6900-4LL

System overview, page 8/112



System overview, page 8/112 Siemens LV 10 ⋅ 10/2019 8/123

5SG switch disconnectors with fuse

System overview

MINIZED switch disconnectors with fuses

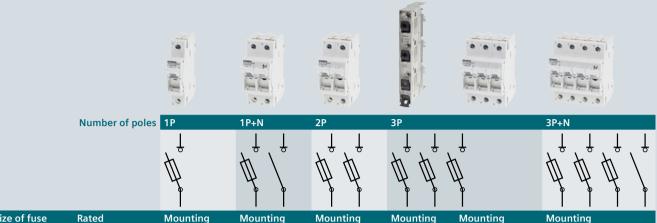


NEOZED SR60 bus-mounting switch disconnectors



Accessories



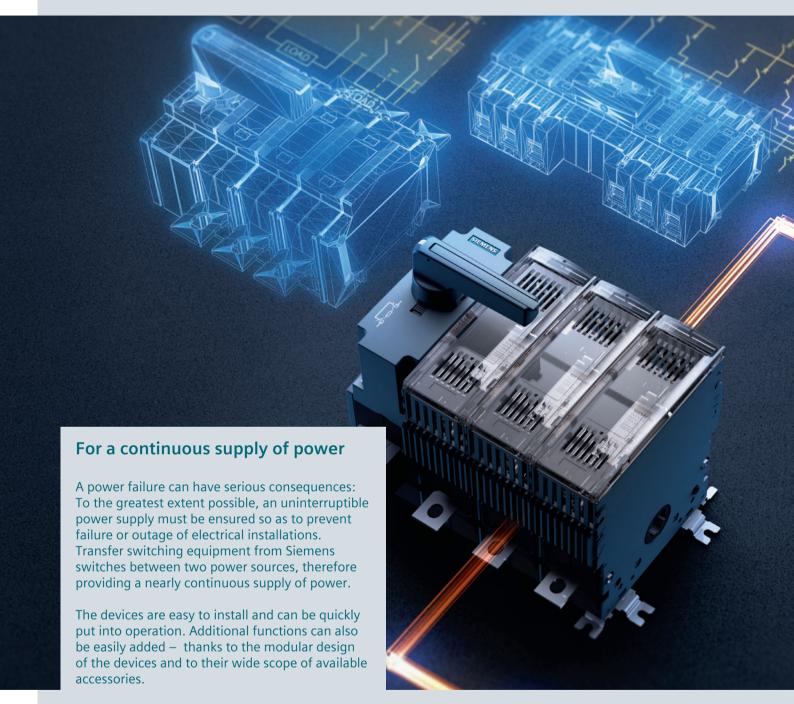


		•				•	
Size of fuse	Rated current I _n	Mounting width	Mounting width	Mounting width	Mounting width	Mounting width	Mounting width
		1.5 MW	3 MW	3 MW	1.5 MW	4.5 MW	6 MW
MINIZED switch	disconnectors with fu	ses ^{1) 3)}					
D02	63 A	5SG7113	5SG7153	5SG7123	-	5SG7133	5SG7163
MINIZED switch	disconnectors with fu	ses – version for A	Austria only 2) 3)				
D02	25 A	-	-	-	-	5SG7133-8BA25	-
	35 A	-	-	-	-	5SG7133-8BA35	-
	50 A	-	-	-	-	5SG7133-8BA50	-
NEOZED SR60 bu	ıs-mounting switch di	sconnectors					
D02	63 A	-	-	-	5SG7230	-	-
NEOZED SR60 bu	ıs-mounting switch di	sconnectors, with	out LED signal de	tector			
D02	63 A	-	-	-	5SG7234-1	-	-
NEOZED SR60 bu	s-mounting switch di	sconnectors, with	LED signal detect	tor			
D02	63 A	-	-	-	5SG7234-2	-	-

¹⁾ Using draw-out technology with touch protection according to BGV A3, adapter sleeves not included in the scope of delivery ²⁾ With permanently fitted adapter sleeves, incl. fuse link ³⁾ Do not use fuse links with nickel-plated contact caps

Accessories

Auxiliary swit	tches				
	Version	Variant	Mounting width	Contacts	Article No.
4	For MINIZED D02 switch disconnectors	Standard	0.5 MW	1 NO + 1 NC	5ST3010
				2 NO	5ST3011
				2 NC	5ST3012
4.3		With test button	0.5 MW	1 NO + 1 NC	5ST3010-2
**				2 NO	5ST3011-2
				2 NC	5ST3012-2
	For NEOZED SR60 bus-mounting switch disconnectors	Standard	0.5 MW	1 CO	5SH5525
Lateral modu	les				
all.	Version	Variant	Mounting width		Article No.
B	For NEOZED SR60 bus-mounting	5SG7230	0.5 MW		5SH5526
	switch disconnectors	5SG7234-1 and -2	0.5 MW		5SH5533
Reducers					
100 22	Version				Article No.
	For D01 fuse links				5SH5527



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Transfer Switching Equipment and Load Transfer Switches



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Information to get you started

For information about transfer switching equipment and load transfer switches, please visit our website www.siemens.com/switching-devices



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i Your product in detail

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• Technical basic information – Switch disconnectors and transfer switching equipment (109763354)

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- Order support 3KC automatic transfer switching equipment (ATSE) - End-to-end safety for user and systems (109755620)
- Order support 3KC remotely operated transfer switching equipment (RTSE) - End-to-end safety for user and systems (109755627)
- Order support 3KC manual transfer switching equipment (MTSE) - End-to-end safety for user and systems (109750227)

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Commissioning + operation



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The Siemens Industry Online Support portal provides detailed technical information

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- Operating instructions
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- Configuration manual Transfer switching equipment and load transfer switches (109769745)
- Equipment manual 3KC3 and 3KC6 transfer switching equipment (109754954)
- Equipment manual 3KCO manual transfer switching equipment (109763232)
- Equipment manual 3KC4 and 3KC8 transfer switching equipment (109738725)
- Equipment manual 3KC ATC3100 transfer control device (100341671)
- Equipment manual 3KC ATC6300 transfer control device (109755149)
- Equipment manual 3KC ATC6500 transfer control device (109758018)

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Technical overview of transfer switching equipment and load transfer switches



The fast way to get you to our online services

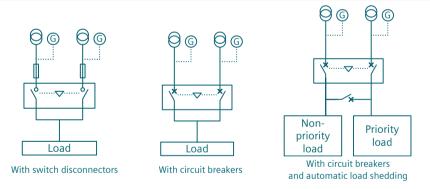
This page provides you with comprehensive information and links on transfer switching equipment and load transfer switches

www.siemens.com/lowvoltage/product-support (109764946)

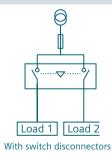
Quick selection guide for applications

Switching with switch disconnectors (without protection function) 3KC0 3KC3 3KC4 3KC6 3KC8 Transfer types AC Load transfer DC Transfer control AC Method of operation Manual (MTSE) Remote (RTSE) Automatic (ATSE) With ATC6300 With ATC6300 Transfer control Network/network AC Network/generator AC Generator/generator AC 16 ... 1600 A Rated operating current 40 ... 160 A 250 ... 3200 A 40 ... 160 A 250 ... 3200 A 3 and 4 Number of poles 3 and 4 4 3 and 4 Communication With ATC6300 With ATC6300 Automatic load shedding

Transfer control

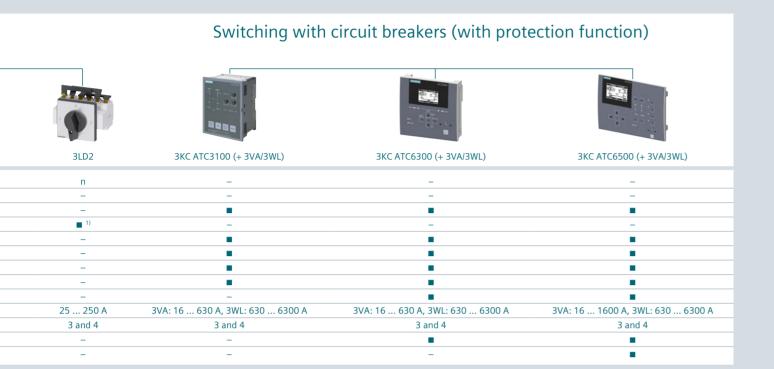


Load transfer



¹⁾ Manual load transfer switch, not an MTSE

System overview



Remote (RTSE) and automatic (ATSE) transfer switching equipment











3KC8 (ATSE), 3 and 4-pole

Accessories, RTSE and ATSE



3KC3 (RTSE), 4-pole

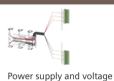








supply



sensing cables

Manual transfer switching equipment (MTSE)

3KC4 (RTSE), 3 and 4-pole 3KC6 (ATSE), 4-pole





3KCO (MTSE), 3 and 4-pole

Accessories, MTSE









Auxiliary switches Direct operating



mechanisms



rotary operating

Accessories



Phase barriers Terminal covers

3LD2 load transfer switches







4th contact





Auxiliary switches

Terminal covers

Transfer control devices









Accessories







Quick selection guide for transfer switching equipment and load transfer switches

Remote transfer switching equipment (RTSE), automatic transfer switching equipment (ATSE)

Matrick	-
00000	
999900	
- 2 2 1	



			3KC3424	3KC3426	3KC3428	3KC3430	3KC3432	3KC3434	3KC4.38	3KC4.42	3KC4.46	3KC4.48	3KC4.50	3KC4.52	3KC4.54	3KC4.56	3KC4.58	3KC4.60
			3KC6424	3KC6426	3KC6428	3KC6430	3KC6432	3KC6434	3KC8.38	3KC8.42	3KC8.46	3KC8.48	3KC8.50	3KC8.52	3KC8.54	3KC8.56	3KC8.58	3KC8.60
Rated uninterrupted currer	nt I _u		40 A	63 A	80 A	100 A	125 A	160 A	250 A	400 A	630 A	800 A	1000 A	1250 A	1600 A	2000 A	2500 A	3200 A
Connection						erminal								erminal				
Switch positions					I-	0-11			I-O-II									
Number of poles						4			3 and 4									
Size						_								-				
General technical details																		
Operating voltage at 50/60 Hz		V				415								15				
Operating voltage at 50/60 Hz	AC in acc. to IEC 60947-3 (load transfer switch)	V				415			690									
Impulse withstand voltage (U _{in}	_{np}) for main circuit	kV				6							1	12				
Impulse withstand voltage (U _{in}	_{np}) for control circuit (RTSE / ATSE)	kV			4 (RTSE)	/ 2.5 (ATSE)								4				
Operational current in acc. to	AC-31 A/B, at 415 V	A	40	63	80	100	100/125	100/160	-/250	-/400	-/630	-/800	-/1000	-/1250	-/1600	-/2000	-/2500	-/3200
IEC 60947-6-1	AC-32 A/B, at 415 V	A	40	63	80	100	100/125	100/160	-/200	-/400	-/500	-/800	-/1000	-/1250	-/1600	-/2000	-/2000	-/2000
	AC-33 B, at 415 V	A	40	63	80	100	125	125	200	200	400	800	800	1000	1000	1250	1250	1250
Operational current in acc. to	AC-21 A/B, at 415 V	A	40	63	80	100	125	125/160	250	400	630	800	1000	1250	1600	-/2000	-/2500	-/3200
IEC 60947-3	AC-21 A/B, at 690 V	A	40	63	80	100	125	125	200	200	500	800	1000	1250	1600	-/2000	-/2000	-/2000
(load transfer switch)	AC-22 A/B, at 415 V	A	40	63	80	100	125	125/160	250	400	630	800	1000	1250	1600	-/2000	-/2500	-/3200
	AC-22 A/B, at 690 V	А	40	63	80	80	100/125	100/125	160	160	400	630	800	1000	1000	-	-	-
	AC-23 A/B, at 415 V	А	40	63	80	100	125	125/160	200	400	500/630	800	1000	1250	1250	-/1600	-/1600	-/1600
	AC-23 A/B, at 690 V	А	40	63	63	80	80	80	125	125	400	630	630	800	800	-	-	-
Operational power in acc. to	AC-23 A/B, at 415 V 1)	kW	22	37	45	55	60	75	110	220	335	450	700	800	900	-	-	-
IEC 60947-3	AC-23 A/B, at 690 V 2)	kW	37	55	55	75	75	75	110	110	400	400	630	800	800	-	-	-
(load transfer switch)	AC 3 motor load switch at 380 440 V	kW				_								_				
	AC-3 motor load switch at 660 690 V	kW				_								_				
Short-circuit behavior																		
Short-circuit current ratings in acc. to IEC 60947-6-1	Conditional short-circuit current with gG fuse (4	115 V) kA	50	50	50	50	50	40	50	50	50	50	50	100	100	-	-	-
Short-circuit current ratings in	Conditional short-circuit current with gG fuse (4	115 V) kA	50	50	50	50	50	40						_				
acc. to IEC 60947-3 (load transfer switch)	Conditional short-circuit current with gG fuse (6	590 V) kA				-			50	50	50	50	50	100	100	-	-	-
Transfer switching properties	s (in acc. to IEC 60947-6-1)																	
Switching time I – O and II – O		S			0	.045			0.5	0.5	0.6	1.4	1.4	1.4	1.4	1.6	1.6	1.6
Switch-off time I – O – II and II –	·0-I	S			().15			0.4	0.4	0.4	1.4	1.4	1.4	1.5	1.2	1.2	1.2
Transfer time I – O – II and II – O	-I without/with network monitoring	S			0.1	8/1.4			0.9/1.0	0.9/1.0	1.0/1.1	2.8/3.1	2.8/3.1	2.8/3.1	2.9/3.3	2.8/2.8	2.8/2.8	2.8/2.8
Degree of protection																		
IP maximum degree of protect	ion				I	P20							IF	20				
Standards UL/CSA, in acc. to l	UL508																	
Rated operational voltage U _e A	C	V				-								-				
Rated uninterrupted current I _u		A				-								-				
Maximum rated power (AC-3),	three-phase, 40 60 Hz 480	V hp				-								-				
	600	V hp				_								-				
More information	More information																	
Catalog LV 10				From page 9/11							From page 9/11							

¹⁾ For 3LD2 at 380 ... 440 V

2) For 3LD2 at 660 ... 690 V

Siemens LV 10 · 10/2019

Manual transfer switching equipment (MTSE)











3LD2 load transfer switches



3KC0.16	3KC0.22	3KC0.26	3KC0.28	3KC0.30	3KC0.32	3KC0.34	3KC0.36	3KC0.38	3KC0.40	3KC0.42	3KC0.44	3KC0.46	3KC0.48	3KC0.50	3KC0.52	3KC0.54	3LD21	3LD22	3LD25	3LD27	3LD23	3LD24
16 A	32 A	63 A	80 A	100 A	125 A	160 A	200 A	250 A	315 A	400 A	500 A	630 A	800 A	1000 A	1250 A	1600 A	25 A	32 A	63 A	100 A	160 A	250 A
	Box terminal				erminal			Flat te	rminal			Flat terminal			Flat terminal			Box te	rminal		Box ter	minal
	I-O-II				O-II			I-C				I-O-II			I-O-II			I-C	-II		1-0	
	3 and 4				nd 4				nd 4			3 and 4			3 and 4			3	}		3 an	
	1				2				3		4 5				-			-				
	415			4	15			4	15			415			415						_	
	690				90				90			690			690			69			69	
	8				8				2			12			12			6			6	
	-				_			-	_			-			-			-			-	
-/16	-/32	-/63	-/80	-/100	-/125	-/160	-/200	-/250	-/315	-/400	-/500	-/630	-/800	-/1000	-/1250	-/1600		-			-	
-/16	-/32	-/63	-/80	-/100	-/125	-/160	-/200	-/250	-/315	-/350	-/500	-/630	-/800	-/1000	-/1250	-/1250		-	-			الكيك
16	32	63	80	100	125	160	200	250	315	315	500	500	500	800	800	800		-		4.5.	153	25.
16/16	32/32	63/63	80/80	100/100	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630 /630	800/800	1000/1000	1250/1250	1600/1600	25	32	63	100	160	250
16/16 16/16	32/32 32/32	63/63 63/63	80/80 80/80	100/100 100/100	125/125 125/125	160/160 160/160	200/200	250/250 250/250	315/315 315/315	400/400 400/400	500/500 500/500	630 /630 630 /630	800/800 800/800	1000/1000 1000/1000	1250/1250 1250/1250	1600/1600 1600/1600	25 25	32 32	63 63	100 100	160 140	250 230
16/16	32/32	63/63	80/80	100/100	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630 /630	800/800	1000/1000	1250/1250	1600/1600	25	32	63	100	140	230
16/16	32/32	63/63	80/80	100/100	125/125	160/160	200/200	250/250	315/315	400/400	500/500	630 /630	670/670	800/800	800/800	800/800	20	22	43	70	132	224
16/16	32/32	63/63	80/80	100/100	125/125	160/160	200/200	250/250	315/315	315/315	500/500	500/500	500/500	800/800	800/800	800/800	11.5	13.5	22	34	47	58
7.5/7.5	15/15	30/30	37/37	55/55	55/55	90/90	110/110	132/132	160/160	220/220	280/280	355/355	355/355	400/400	400/400	400/400	9.5	11.5	22	37	75	132
11/11	30/30	55/55	75/75	90/90	110/110	110/110	185/185	220/220	280/280	355/355	500/500	500/500	500/500	800/800	800/800	800/800	9.5	11.5	18.5	30	45	55
	-				-			-	-			-			-		7.5	9.5	18.5	30	50	110
	-				-			-	-			-			-		7.5	9.5	15	22	37	45
	100			1,	00		100	100	65	65	100	100	65	100	80	80						
	100			11	00		100	100	65	05	100	100	65	100	80	80		-				
	100			1	00		100	100	65	65	100	100	65	100	80	80	50	50	50	50	50	50
	100			6	55		65	65	35	35	65	65	50	-	-	-	50	50	50	50	50	50
	_								_			_			_							
	_				_			-	_			-			-			-			-	
	-				_			-	_			-			-			-	-		-	
	IP20			IP	20			IP.	20			IP20			IP20				IP	65		
	-								-						-		600	600	600	600	600	600
	-				-			-	-			-			-		20	30	60	100	160	250
	-				-				-			-			-		10	20 (15) 3)	40	60	75	100
							-					15 30 (20) ³⁾ 50 75 75					75					
From page 9/18																From pa	age 9/24					
	From page 9/18																		i i o i i pi	-90 7/2 !		

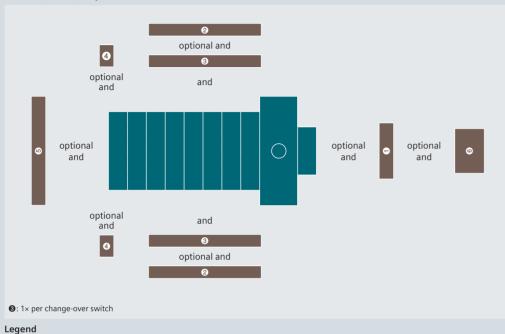
³⁾ Values in brackets apply to devices in molded-plastic enclosure.

3KC4 (RTSE) 3-pole or 4-pole

Mounting concept

Mounting concept and accessories

3KC3 (RTSE) 4-pole



6 Autotransformers

6 Dual power supply

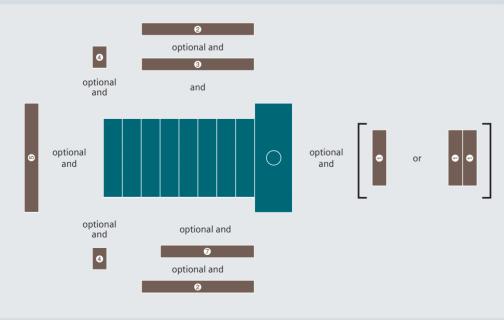
8 Bridging bar

4 Aux. conductor terminal

3KC6 (ATSE), 4-pole

Auxiliary switches

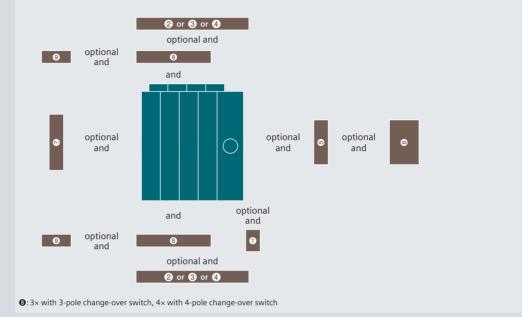
2 Terminal covers



6 Autotransformers

6 Dual power supply

Sealable cover



- Auxiliary switches
- Phase barriers
- Terminal covers
- Terminal plates
- 6 Autotransformers
- Oual power supply
- Copper bar connection kit

Opper bar connection kit

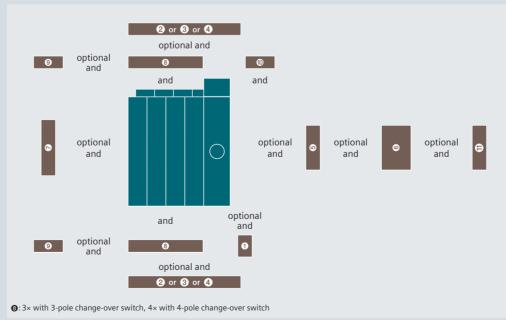
Power supply cables

External display

Spacers

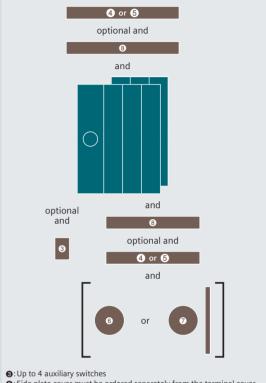
3 Bridging bar

3KC8 (ATSE) 3-pole or 4-pole



- Auxiliary switches
- Phase barriers
- Terminal covers 4 Terminal plates
- 6 Autotransformers
- **6** Dual power supply Spacers
- Bridging bar

3KC0 (MTSE) front operating mechanism on left, 3-pole or 4-pole, sizes 3 to 5



- **6**: Side plate cover must be ordered separately from the terminal cover
- 3:3× with 3-pole change-over switch, 4× with 4-pole change-over switch

Legend

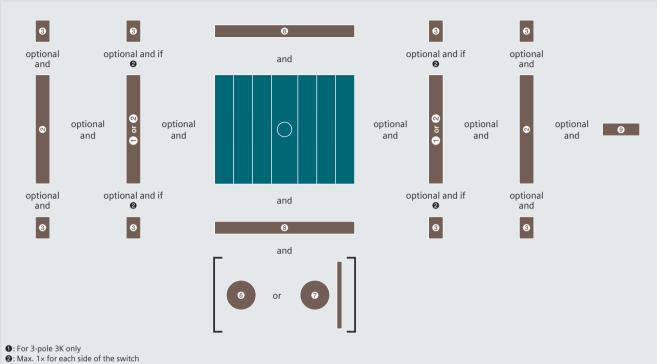
- 3 Auxiliary switches
- Phase barrier
- 6 Side plate cover and terminal cover
- 6 Direct operating mechanism
- **7** Door-coupling rotary operating mechanism
- 8 Bridging bar

Auxiliary switches

4 Aux. conductor terminal

2 Terminal covers

Bridging bar



- 2: Requires at least 1× auxiliary switch (3)
- 3: Only 1× per change-over switch

- 1 4th contact element
- 2 Auxiliary switch module, standard version
- 3 Auxiliary switches
- **6** Direct operating mechanism
- Door-coupling rotary operating mechanism
- Bridging bar
- Assembly kit for floor mounting

3LD2 load transfer switch mounting concept



Legend

- Auxiliary switches
- N/PE terminal
- N switching contacts
- 4 Terminal covers

Remote transfer switching equipment (RTSE)

40 to 3200 A

	Box terminal	Flat terminal		
	3KC3 (RTSE)	3KC4 (RTSE)		
Version	With motorized operating mechanism and additional handle	With motorized operating mechanism a	nd additional handle	
Operating mechanism	Operating mechanism on right	Operating mechanism on right		
Mounting	Floor and DIN rail mounting	Floor mounting		
Bridging bars	Additionally required for connection side	Additionally required for connection side		
Scope of supply	Including 3KC9603 auxiliary switches		9.9.9.0	
Rated uninterrupted current I _u	4-pole	3-pole	4-pole	
Rated uninterrupted current I _u Box terminal	4-pole	3-pole	4-pole	
	4-pole 3KC3424-2AA22-0AA3	3-pole	4-pole	
Box terminal			4-pole	
Box terminal 40 A	3KC3424-2AA22-0AA3		4-pole	
Box terminal 40 A 63 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3		4-pole	
80 x terminal 40 A 63 A 80 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3	- - -	- - -	
80 x terminal 40 A 63 A 80 A 100 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3	- - -	- - -	
Box terminal 40 A 63 A 80 A 100 A 125 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3	- - -	- - -	
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3	- - -	- - -	
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3	- - - -	- - - -	
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3	- - - - - - - 3KC4338-0CA21-0AA3	- - - - - - 3KC4438-0CA21-0AA3	
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3		- - - - - - 3KC4438-0CA21-0AA3 3KC4442-0DA21-0AA3	
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3			
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3			
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A 800 A 1000 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3			
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A 800 A 1000 A 1250 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3			
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A 800 A 1000 A 1250 A	3KC3424-2AA22-0AA3 3KC3426-2AA22-0AA3 3KC3428-2AA22-0AA3 3KC3430-2AA22-0AA3 3KC3432-2AA22-0AA3			

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Automatic transfer switching equipment (ATSE)

40 to 3200 A

	Box terminal	Flat terminal			
	3KC6 (ATSE)	3KC8 (ATSE)			
Version	With motorized operating mechanism, integrated controller and additional handle	With motorized operating mechanism, in additional handle	ntegrated controller and		
Operating mechanism	Operating mechanism on right	Operating mechanism on right			
Mounting	Floor and DIN rail mounting	Floor mounting			
Bridging bars	Additionally required for connection side	Additionally required for connection side	e		
Scope of supply	Wired ready for operation (including power supply)	Without power supply and voltage sensi	ng cables		
	ATC (M)	ATC	ATC M		
Rated uninterrupted current I _u	4-pole	3-pole	4-pole		
Rated uninterrupted current I _u Box terminal	4-pole	3-pole	4-pole		
<u> </u>	4-pole 3KC6424-2TA20-0TA3	3-pole	4-pole		
Box terminal			4-pole - -		
Box terminal 40 A	3КС6424-2ТА20-0ТА3	-	4-pole		
Box terminal 40 A 63 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3	- -	4-pole		
Box terminal 40 A 63 A 80 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3	- - -	4-pole		
Box terminal 40 A 63 A 80 A 100 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3	- - -	4-pole		
Box terminal 40 A 63 A 80 A 100 A 125 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3	- - -	4-pole		
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3	- - -	4-pole		
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3	- - - - -	- - - - -		
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3	- - - - - - 3KC8338-0CA22-0GA3	- - - - - - - 3KC8438-0CA22-0GA3		
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3	- - - - - - 3KC8338-0CA22-0GA3 3KC8342-0DA22-0GA3	- - - - - - 3KC8438-0CA22-0GA3 3KC8442-0DA22-0GA3		
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3	- - - - - 3KC8338-0CA22-0GA3 3KC8342-0DA22-0GA3 3KC8346-0EA22-0GA3			
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A 800 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3				
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A 800 A 1000 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3				
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A 800 A 1000 A 1250 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3				
Box terminal 40 A 63 A 80 A 100 A 125 A 160 A Flat terminal 250 A 400 A 630 A 800 A 1000 A 1250 A	3KC6424-2TA20-0TA3 3KC6426-2TA20-0TA3 3KC6428-2TA20-0TA3 3KC6430-2TA20-0TA3 3KC6432-2TA20-0TA3				

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Accessories

For remote transfer switching equipment (RTSE) and automatic transfer switching equipment (ATSE)

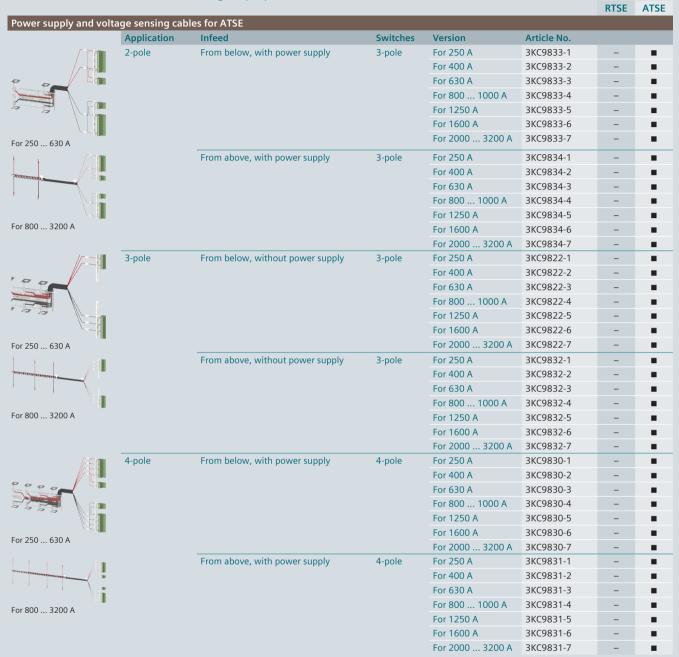
	<u> </u>		·		RTSE	ATSE
Bridging bar						
		ion e transfer switches 3 units e transfer switches 4 units				
	Version	Number of poles	Scope of supply	Article No.		
	For 40 125 A	4-pole	1 unit	3KC9618-2		
	For 160 A	4-pole	1 unit	3KC9618-3	•	•
	For 250 A	1-pole	1 unit	3KC9818-2	-	-
550	For 400 A	1-pole	1 unit	3KC9818-3		
60	For 630 A	1-pole	1 unit	3KC9818-4		
0 0	For 800 1000 A	1-pole	1 unit	3KC9818-5		
0	For 1250 A	1-pole	1 unit	3KC9818-6		-
0	For 1600 A	1-pole	1 unit	3KC9818-7		
	For 2000 3200 A	1-pole	1 unit	3KC9818-8		
Auxiliary conductor ter	minal					
44	Version		Scope of supply	Article No.		
Auxiliary switches for 4						
#		t for each position O, I, II	ansfer switching equipment unit			
. 6	Version	Contact configuration		Article No.		
2 (1)	For 40 160 A	With separate contacts		3KC9603-1	-	-
		With linked common co	ontacts	3KC9603-2	•	-
Auxiliary switches for 2	50 1600 A					
	 One auxiliary switch contains 2 leading changeover contacts, one changeover contact for position I and one changeover contact for position II (incl. bolt set) Max. two auxiliary switches can be installed per transfer switching equipment unit For 2000 3200 A transfer switching equipment the auxiliary switch is included in the basic unit 250 V AC / 12 A (AC-13), 24 V DC / 14 A (DC-13) 					
	Version			Article No.		
	For 250 630 A			3KC9803-1	•	•
	For 800 1600 A			3KC9803-2	•	•
	For 2000 2500 A (incl	uded in the basic unit)		-	•	-

					RTSE	ATSE
Terminal covers						
	Version	Number of poles	Scope of supply	Article No.		
	For 40 160 A	4-pole	2 units (1 unit covers 4 poles)	3KC9604-2	•	•
A THE THE	For 250 400 A	3-pole	3 units (1 unit covers 1 pole)	3KC9804-1		
		4-pole	4 units (1 unit covers 1 pole)	3KC9804-2	•	•
BL ING 1000	For 630 A	3-pole	3 units (1 unit covers 1 pole)	3KC9804-3		
		4-pole	4 units (1 unit covers 1 pole)	3KC9804-4		•
Sealable cover						
	Version		Scope of supply	Article No.		
	For 3KC6 (ATSE) 40	160 A	Incl. bolt set and sealing ribbons	3KC9721-1	-	•
•	For 3KC8 (ATSE) 250 .	3200 A	Incl. bolt set and sealing ribbons	3KC9821-0	-	•
Sealing ribbon						
	Also as spare part for	or sealable cover				
A C	Version		Scope of supply	Article No.		
	For 40 3200 A		10 units	3KC9621-2	-	٠
Autotransformers	Version		Technical data	Article No.		
	For 40 160 A		400 V AC / 230 V; 400 VA	3KC9624-1	-	
AND DESCRIPTION OF THE PARTY OF	101 40 100 A		400 V NC/ 230 V, 400 VN	3803024-1	-	-
SIEMENS CE	For 250 3200 A, 3-p	oole	400 V AC / 230 V; 200 VA	3KC9824-1	•	•

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Accessories

For remote transfer switching equipment (RTSE) and automatic transfer switching equipment (ATSE)



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					RTSE	ATSE
Dual power supply						
1	Version		Technical data	Article No.		
00	For 3KC3 and 3KC4 (RTS	E) 40 3200 A	240 V AC, 3 A	3KC9625-1		-
External display	5 t . III t . I				_	
DIEMENS SEC	For installing in the co	ontrol cabinet door				
0 0	Version	2004		Article No.		
	For 3KC8 (ATSE) 250 3	3200 A		3KC9823-0	_	•
0						
Connection cable		_		_	_	
	3 m RJ45 cable for ext	ternal display				
	Version			Article No.		
4.00	For 250 3200 A			3KC9823-2	_	
Phase barrier						
4	• For 800 3200 A trai	nsfer switching equipment				
	included in the scope	of supply of the basic unit				
	Version	Number of poles	Scope of supply	Article No.		
	For 250 400 A	3-pole	2 units	3KC9808-1	-	•
		4-pole	3 units	3KC9808-6		-
	For 630 A	3-pole	2 units	3KC9808-2	-	-
		4-pole	3 units	3KC9808-7	_	•
Cover frame for ATSE						
	For a clean and safe d To enable assess to the	oor cut-out ie front of the 3KC8 transf	or switching aguinment			
			ed operating mechanism)			
	Version			Article No.		
	250 630 A			3KC9820-4	-	
	800 3200 A			3KC9820-5	_	
Spacers						
6	Increase the space bet	tween the mounting rail a	nd the cabinet rear panel or the			
	mounting frame					
8	Version	Scope of supply		Article No.		
	For 250 630 A	2 units		3KC9820-3		•
D						

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Accessories

For remote transfer switching equipment (RTSE) and automatic transfer switching equipment (ATSE)

				RTSE	ATSI
nnection kit					
Version	Designation	Scope of supply	Article No.		
For 2000 2500A	C-bracket, part A	1 unit	3KC9811-0	ľ	•
For 2000 3200 A	Bolt set, part B	1 unit	3KC9811-1 3KC9811-2	:	:
	T-bracket, part C	1 unit	3KC9811-3	٠	•
	L-bracket, part D	2 units	3KC9811-4		•
	Bridging bars, part E	1 unit	3KC9818-8	•	•
S For protecting the fi	ont side at the upper and lower	r connecting terminals	_		
Version Version	Number of poles	connecting terminals	Article No.		
For 250 400 A	3-pole		3KC9827-1		
	4-pole		3KC9828-1	•	•
For 630 A	3-pole		3KC9827-2		
	4-pole		3KC9828-2	•	•
For 800 1250 A	3-pole		3KC9827-3		
For 800 1250 A	3-pole 4-pole		3KC9827-3 3KC9828-3	÷	•
	4-pole		3KC9828-3		•
For 800 1250 A				•	:
	4-pole 3-pole		3KC9828-3 3KC9827-4	•	•

			RTSE	ATSE
Motorized operating m				
	Version	Article No.		
866	For 250 400 A	3KC9826-1	•	•
R G	For 630 A	3KC9826-2	•	•
	For 800 1250 A	3KC9826-3	•	•
e	For 1600 A	3KC9826-4	•	•
	For 2000 3200 A	3KC9826-5	•	•
Controller (electronic m	nodule) as spare part			
Was Man S	Version	Article No.		
222	For 250 3200 A	3KC9826-0	-	•



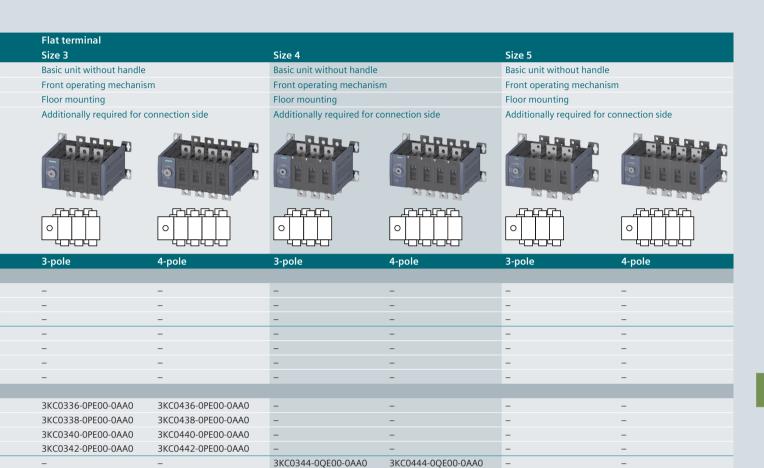
Box terminal

Manual transfer switching equipment (MTSE)

16 to 1600 A

	Size 1		Size 2				
Version	Basic unit without handle		Basic unit without handle				
Operating mechanism	Front operating mechanism	า	Front operating mechanism				
Mounting	Standard mounting rail and	f floor mounting 1)	Standard mounting rail and floor mounting 1)				
Bridging bars	Additionally required for co	nnection side	Additionally required for co	onnection side			
				0 0 0			
Rated uninterrupted current I _u	3-pole	4-pole	3-pole	4-pole			
Box terminal							
16 A	3KC0316-2ME00-0AA0	3KC0416-2ME00-0AA0	-	-			
32 A	3KC0322-2ME00-0AA0	3KC0422-2ME00-0AA0	-	-			
63 A	3KC0326-2ME00-0AA0	3KC0426-2ME00-0AA0	-	-			
80 A	-	_	3KC0328-2NE00-0AA0	3KC0428-2NE00-0AA0			
100 A	-	_	3KC0330-2NE00-0AA0	3KC0430-2NE00-0AA0			
125 A	-	_	3KC0332-2NE00-0AA0	3KC0432-2NE00-0AA0			
160 A	-	_	3KC0334-2NE00-0AA0	3KC0434-2NE00-0AA0			
Flat terminal							
200 A	-	_	-	-			
250 A	-	_	-	-			
315 A	-	-	-	-			
400 A	-	_	-	-			
500 A	-	_	-	-			
630 A	-	_	-	-			
800 A	_	-	-	-			
1000 A	-	-	-	-			
1250 A	-	-	-	-			
1600 A	-	-	-	-			

¹⁾ An assembly kit is required for floor mounting



3KC0346-0QE00-0AA0

3KC0348-0QE00-0AA0

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3KC0446-0QE00-0AA0

3KC0448-0QE00-0AA0

3KC0350-0RE00-0AA0

3KC0352-0RE00-0AA0

3KC0354-0RE00-0AA0

3KC0450-0RE00-0AA0

3KC0452-0RE00-0AA0

3KC0454-0RE00-0AA0

Accessories

For manual transfer switching equipment (MTSE)

					Size 1	Size 2	Size 3	Size 4	Size 5
Box terminal	(4th contact element, switc	hing pole)							
	Connection			Article No.					
	N—— N			3KD9105-2					
	11 11			3KD9205-2					
. 6				31032032		_			
1									
Auxiliary swit	tch module								
	Delivery does not include a	auxiliary switch							
3.4	A maximum of 2 auxiliary	switches can be inst	alled per auxiliary						
, A	switch module.The auxiliary switches indi	cate the switch nosi	tion of the respective						
. 0	switching equipment (I or	•							
	connected.	.,							
	Variant			Article No.					
	Standard version			3KD9103-5					
Auxiliary swit	tches								
	Auxiliary switches for sizes	3 to 5 have a screw	terminal and						
	are mounted on the 3K op								
	switches with spring-type also be used.	terminals from the	3SU1 program can						
	 All auxiliary switches for si 	zes 3 to 5 can be us	ed as leading auxiliary						
	switches, depending on th								
	switch (see operating instr								
	Variant	Contacts	Contact surface	Article No.					
●	With connecting cables	1 CO contact	Standard	3KD9103-1		-			
			Solid-state	3KD9103-3		-			
_			compatible						
	Without connecting cables	1 CO contact	Standard	3KD9103-2	•	•			
			Solid-state	3KD9103-4	•	•			
9		1 NO contact	compatible Standard	2011400 1 4 4 1 0 1 B 4 0				_	
		I NO COILLACT		3SU1400-1AA10-1BA0			-	-	-
_		1 NC contact	Gold-plated	3SU1400-1AA10-1LA0			-	-	-
		1 NC contact	Standard	3SU1400-1AA10-1CA0			-		-
<u>,e</u>		1 NO contest	Gold-plated	3SU1400-1AA10-1MA0			-	-	-
		1 NO contact + 1 NC contact	Standard	3SU1400-1AA10-1FA0			-		-
			Gold-plated	3SU1400-1AA10-1QA0			-	-	
		2 NO contacts	Standard	3SU1400-1AA10-1DA0			-	-	_
		2 NC southerts	Gold-plated	3SU1400-1AA10-1NA0			-	-	_
		2 NC contacts	Standard	3SU1400-1AA10-1EA0			-	-	_
Dridaina barr	for cizes 1 and 2		Gold-plated	3SU1400-1AA10-1PA0			•		
bridging bars	for sizes 1 and 2								
	 For load-side connection For 3-pole transfer switcher 	es (sizes 3 to 5) 3 un	its, for 4-pole transfer						
	switches (sizes 3 to 5) 4 ur		,						
	Number of poles			Article No.					
,II.	1-pole		1 unit	3KC9318-0			-		
				3KC9418-0				-	
				3KC9518-0					
2									
	3-pole		1 unit	3KC9118-1					
	5 pole		Turrit	3KC9218-1	_				
111				JKC92 10-1		_			
	4-pole		1 unit	3KC9118-2					
111				3KC9218-2					

					Size 1	Size 2	Size 3	Size 4	Size 5
Direct operation	ng mechanism standard ver	rsion							
	Can be locked with up to nRequires additional mount		tate						
	Color			Article No.					
	Gray			3KC9201-3					
0				3KC9301-1					
				3KC9401-1				-	
				3KC9501-1					-
V	Red/yellow			3KC9301-2			•		
				3KC9401-2					
				3KC9501-2					•
Flat direct ope	rating mechanism for distri	ibution boards							
	Can be locked with one paNo additional mounting de								
	Color			Article No.					
	Gray			3KC9101-4					
Door-coupling	rotary operating mechanis	m, 8UD1 series							
	 Handle with masking plate Coupling driver with tolera Shaft 300 mm Can be locked with up to n Labeling I – O – II 	nce compensation							
	Color	Handle length	Shaft	Article No.					
1	Gray	55 mm	8 × 8 mm	8UD1131-2AE21		_			
	,	100 mm	8 × 8 mm	8UD1141-2AE21					
		140 mm	10 × 10 mm	8UD1151-3AE21					
		200 mm	12 × 12 mm	8UD1161-4AE21					•
Handles for do	oor-coupling rotary operatir	ng mechanisms, 8L	JD1 series						
	 Without extension shaft ar With masking plate Can be locked with up to n Labeling I-O-II 								
	Color	Handle length	Shaft	Article No.					
	Gray	55 mm	8 × 8 mm	8UD1731-2AE01	•	•			
		100 mm	8 × 8 mm	8UD1841-2AE01					
		140 mm	10 × 10 mm	8UD1851-3AE01					
)	200 mm	12 × 12 mm	8UD1861-4AE01					•
	Red/yellow	55 mm	8 × 8 mm	8UD1731-2AE05	•	•			
		100 mm	8 × 8 mm	8UD1841-2AE05					
		140 mm	10 × 10 mm	8UD1851-3AE05					
		200 mm	12 × 12 mm	8UD1861-4AE05				_	-

Accessories

For manual transfer switching equipment (MTSE)

				Size 1	Size 2	Size 3	Size 4	Size 5
Extension sha	aft for door-coupling rotary	operating mechanism, 8UD1 series						
		r the 8UD1 handle when the 600 mm						
	Length	Cross-section	Article No.					
	300 mm	8 × 8 mm	8UC6032					
		10 × 10 mm	8UC6033					
		12 × 12 mm	8UC6034					
	600 mm	8 × 8 mm	8UC6082					
		10 × 10 mm	8UC6083					
		12 × 12 mm	8UC6084					
Shaft jack for	handle 8UD1 for shaft, 600) mm						
C	Shaft		Article No.					
	8 × 8 mm		8UD1900-0FA00	•	•			
Coupling driv								
	Variant	Shaft	Article No.					
	With tolerance compensation	8 × 8 mm	8UD1900-2GA00	•	•			
		8 × 8 mm	8UD1900-6GA00					
2		10 × 10 mm	8UD1900-3GA00			_		
		12 × 12 mm	8UD1900-4GA00				_	
		12 × 12 11111	0021300 10/100					_
	Without tolerance compensation	8 × 8 mm	8UD1900-2HA00	•	•			
4		8 × 8 mm	8UD1900-6HA00					
		10 × 10 mm	8UD1900-3HA00					
		12 × 12 mm	8UD1900-4HA00				_	•
Adapter								
	Non-interchangeability fe	atures (rivet and lug)						
	Shaft		Article No.					
0	8 × 8 mm		8UC6022		-			
. 6	8 × 8 mm		8UC6022			-		
	10 × 10 mm		8UC6023					
	12 × 12 mm		8UC6024					
Phase barrier	For manual transfer switch	hing equipment (MTSE) with flat terminals required for the infeed side and						
	Number of poles, switch	Scope of supply	Article No.					
	3-pole	6 units	3KD9308-6					
No.		6 units	3KD9408-6					
•		6 units	3KD9508-6					
	4-pole	8 units	3KD9308-8					
		8 units	3KD9408-8					
		8 units	3KD9508-8					

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					Size 1	Size 2	Size 3	Size 4	Size 5
Terminal cov	ors								
Terminal cov	 For manual transfer s One pack (6 or 8 unit the load side Additional side plates 	witching equipment (MTSE s) is required for the infeed for terminal covers are req bridging bars are used (nor	side and uired for the						
	Length	Number of poles, switch	Scope of supply	Article No.					
Commercial	Standard length	3-pole	6 units	3KD9304-6 3KD9404-6			•		
		4-pole	8 units	3KD9504-6 3KD9304-8 3KD9404-8			•		•
	Short version	3-pole	6 units	3KD9504-8 3KD9304-7 3KD9404-7			•		•
		4-pole	8 units	3KD9304-5 3KD9404-5			•		
Terminal cov	ers as spare parts								
	Length		Scope of supply	Article No.					
	Standard length		1 unit	3KD9504-1					•
	Short version		1 unit	3KD9304-1 3KD9404-1			•	•	
Side plates				_	_		_	_	_
Side plates	bars are used (norma	ection on the terminal side lly the load side) covers in standard length	, where bridging		П				
	Length	J.	Scope of supply	Article No.					
	Standard length		2 units	3KC9304-0			-		
				3KC9404-0					
				3KC9504-0					-
Assembly kit	for floor mounting								
	For floor mounting ofContains 4 mounting 4-pole devices	f sizes 1 and 2 brackets and 2 mounting p	plates for 3-pole and						
				Article No.					
				3KC9120-1	-	-			
Mounting bra	 Spare part, included i for 3-pole and 4-pole 	n the scope of supply of the devices	e assembly kit		-		_		
	Scope of supply			Article No.					
-	4 units			3KD9120-1	-	-			
Slide f <u>or mou</u>	ınting on DIN rail as spa	re part							
		the scope of supply for th	e 3KC0 slide for DIN						
	Scope of supply			Article No.					
	5 units			3KF9112-0BA00	•	•			

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3LD2 load transfer switches

Up to 250 A

Front mounting

Direct operating mechanism (knob-operated mechanism)

Actuator color Black

Locking device 3LD23 and 3LD24 lockable

with up to 3 padlocks with a hasp thickness of 4 to 6 mm

(all other versions non-lockable)

Mounting Four-hole mounting

Bridging bars Pre-assembled



		3P	3P+N
at AC-23A	at AC-3		
9.5 kW	7.5 kW	3LD2123-7UK01	-
11.5 kW	9.5 kW	3LD2223-7UK01	-
22.0 kW	18.5 kW	3LD2524-7UK01	-
37.0 kW	30.0 kW	3LD2724-7UK01	-
75 kW	50 kW	3LD2305-7UK01	3LD2305-7UL01
132 kW	110 kW	3LD2405-7UK01	3LD2405-7UL01
	(50/60 Hz, 380 44 at AC-23A 9.5 kW 11.5 kW 22.0 kW 37.0 kW	(50/60 Hz, 380 440 V) at AC-23A at AC-3 9.5 kW 7.5 kW 11.5 kW 9.5 kW 22.0 kW 18.5 kW 37.0 kW 30.0 kW 75 kW 50 kW	(50/60 Hz, 380 440 V) at AC-23A at AC-3 9.5 kW 7.5 kW 3LD2123-7UK01 11.5 kW 9.5 kW 3LD2223-7UK01 22.0 kW 18.5 kW 3LD2524-7UK01 37.0 kW 30.0 kW 3LD2724-7UK01 75 kW 50 kW 3LD2305-7UK01

Accessori	Accessories			 	3LD27 (100 A)	3LD23 (160 A)	3LD24 (250 A)
4th contact	(N conductor)		, ,				
· · · · · · · · · · · · · · · · · · ·	 Leading switch-on, lagging switch-off Bridging bars for the switchable N pole are not included in the scope of supply 						
3	Load transfer switch design	Article No.					
N. At	Front mounting	3LD9220-0B					
G.		3LD9250-0BA					
		3LD9280-0B			•		
		3LD9240-0B				-	•
	Floor mounting	3LD9240-0C					
	Molded-plastic enclosures	3LD9220-0C	•				
		3LD9250-0CA 1)					
		3LD9280-0C1)					
N or PE tern	ninals						
1-7	Through-type						
	Load transfer switch design	Article No.					
	Front mounting	3LD9220-2B	-				
		3LD9250-2BA					
		3LD9280-2B					
7		3LD9240-2B					
	Floor mounting	3LD9240-2C				-	

¹⁾ Can only be used as a spare part, as no additional poles can be installed in the enclosure.

Door-coupling rotary operating mechanism (knob-operated mechanism) Black Lockable in OR position with up to 3 padlocks with a hasp thickness of 4 to 6 mm with up to 3 padlocks with a hasp thickness of 4 to 6 mm (all other versions non-lockable) Four-hole mounting Pre-assembled Metric screw connection Pre-assembled Modded-plastic enclosures Direct operating mechanism (knob-operated mechanism) Black 3LD21 and 3LD22 lockable in OR position with up to 3 padlocks with a hasp thickness of 4 to 6 mm (all other versions non-lockable) Pre-assembled

•		
3P	3P+N	3P + N and PE base terminal
-	-	3LD2165-7UB01
-	-	3LD2265-7UB01
-	-	3LD2566-7UB01
-	-	3LD2766-7UB01
3LD2318-7UK01	3LD2318-7UL01	-
3LD2418-7UK01	3LD2418-7UL01	-

							3LD25 (63 A)	3LD27 (100 A)	3LD23 (160 A)	3LD24 (250 A)
Auxiliary sw	itches									
	For mounting on the left and/or leading switch-off For 3-pole load transfer switches Indicate the switch position of th (I or II) to which the auxiliary swi	only e respective lo	ad transfer switch							
9	Load transfer switch design	Contacts	Type of contact	Article No.						
	Front mounting	1 NO +	Standard	3LD9200-5B		•			-	-
		1 NC	Gold-plated	3LD9200-5BF		•	-	-	-	-
	Floor mounting and	1 NO +	Standard	3LD9200-5C		-		-	-	
	molded-plastic enclosure	1 NC	Gold-plated	3LD9200-5CF		•	-	-		
		2 NO	Standard	3LD9200-6C					-	•
Terminal co	vers as additional touch protectio	n								
	For mounting on load side only									
	Number of poles		Scope of supply	Article No.						
	1-pole		4 units	3LD9221-2A	-	-				
				3LD9251-2A			-			
-				3LD9281-2A				-		
				3LD9241-2A					-	-
MAN	3-pole		4 units	3LD9221-0A	-	-				
				3LD9251-0A			•			
Shaft coupli	ng									
	No ON-lock									
10 = 0	Load transfer switch design			Article No.						
1	Floor mounting			3LD9242-4F					•	•

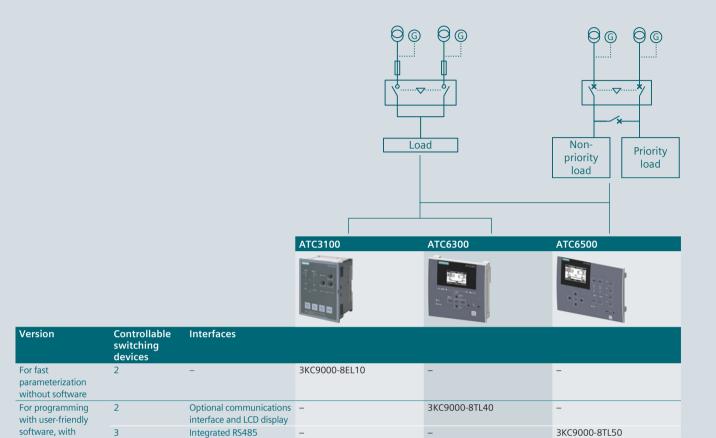
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interface and LCD display

programmable inputs

and outputs

Transfer control devices



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Further technical sp	ecifications	ATC3100	ATC6300	ATC6500
Application				
Transfer between		Network/network, network/generator	Network/network, network/generator, generator/generator	Network/network, network/generator, generator/generator
Controllable switching devices	<u> </u>	2	2	3
In-phase transition		-	_	Yes
Implementation of transfer with	th	3VA, 3VL, 3VT, 3WL, 3WT	3WL FSI-III, 3WT, 3KC3, 3KC4, 3VA, 3VL	3WL FSI-III, 3WL10, 3WT, 3VA
Measuring inputs				
Max. rated voltage U _n	Phase-phase	400 V AC	480 V AC	600 V AC
	Phase-neutral conductor	230 V AC	277 V AC	346 V AC
Measuring range	Phase-phase	-	50 576 V AC	50 720 V AC
	Phase-neutral conductor	161 264 V AC	50 333 V AC	30 415 V AC
Frequency range		50/60 Hz	45 65 Hz	45 65 Hz
Relative error of measurement	: method	±5%	±0.25%	±0.25%
Communication				
Integrated RS485 interface (M	odbus RTU)	_	_	Yes
Optional RS485 interface (Mod	dbus RTU)	_	Yes	Ready-integrated
Optional Ethernet interface (M	lodbus TCP)	-	Yes	Yes
Power supply				
Auxiliary power supply	Rated voltage U _n AC	220 240 V	100 240 V	100 240 V
3	Rated voltage U _n DC	-	110 250 V	110 250 V
	Frequency range	50/60 Hz	45 65 Hz	45 65 Hz
Battery power supply	Rated voltage U _n DC	12/24 V	12/24 V	12/24/48 V
Digital inputs				
Number of inputs		5	6	8
Freely programmable		-	All	All
Relay outputs				
Number of outputs		9	7	7
Freely programmable		_	All	All
Contact configuration		6× 1 NO, 8 A, 250 V AC 3× 1 NO, 16 A, 250 V AC	6× 1 NO, 8 A, 250 V AC (AC-1) 1× 1 CO, 8 A, 250 V AC (AC-1)	2× 1 NO, 12 A, 250 V AC (AC-1) 2× 1 NO, 8 A, 250 V AC (AC-1) 3× 1 CO, 8 A, 250 V AC (AC-1)
Real time clock and event log	9			
ATC component		No	Yes	Yes
Operating time without voltage	e	_	300 s	14 days
Max. number of events that ca	an be stored	_	100	250
Connections				
Terminal type		Removable/plug-in	Removable/plug-in	Removable/plug-in
Cable cross-section	IEC	0.5 2.5 mm ²	0.2 2.5 mm ²	0.2 2.5 mm ²
Enclosures				
Version		Door installation, standard rail mounting, floor mounting	Door installation	Door installation
Degree of protection		IP41 on the front, IP20 on the rear side	IP40 on the front, IP20 on the rear side	IP40 on the front, IP20 on the rear side

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Accessories for transfer control devices

3KC ATC3100 transfer switching equipment

Connecting cable for 3KC ATC3100					
	Measurement and control cable for connection of 3KC ATC3100 to 3VL or 3WL				
	Cable length	Article No.			
	1.8 m	3KC9000-8FL62			

For 3KC ATC	6300 and 3KC ATC6500	transfer switching equipment	
Expansion mod	ules with digital inputs and out	puts	
13	ATC6 expansion module	Features	Article No.
	4DI	 4 digital inputs Including insulated 24 V DC/1 W power supply for digital inputs and sensors 	3KC9000-8TL60
	4DO, SSR	 4 solid-state-compatible digital outputs 4 NO contacts at the solid-state-compatible output max. 55 mA at 30 V AC or 40 V DC 	3KC9000-8TL61
	2DI/2DO, SSR	2DI/2DO, SSR 2 digital inputs and 2 solid-state compatible digital outputs Including insulated 24 V DC/1 W power supply for digital inputs and sensors 2 NO contacts at the solid-state-compatible output max. 55 mA at 30 V AC or 40 V DC	
	2DO, relay	2 relay outputs2 CO contacts at relay output, 5 A, 250 V AC (AC-1)	3KC9000-8TL63
	2DI/2DO, relay	2 digital inputs and 2 relay outputs2 NO contacts at relay output, 5 A, 250 V AC (AC-1)	3KC9000-8TL64
Expansion mod	ules with communication interf	aces	
	Note: The 3KC ATC6500 tran	nsfer switching equipment comes with an integrated RS485 interface	
Tables and the same of the sam	ATC6 expansion module	Features	Article No.
	RS485	RS485 interface	3KC9000-8TL74
₹ å	Ethernet	Ethernet interface	3KC9000-8TL75



Front interface



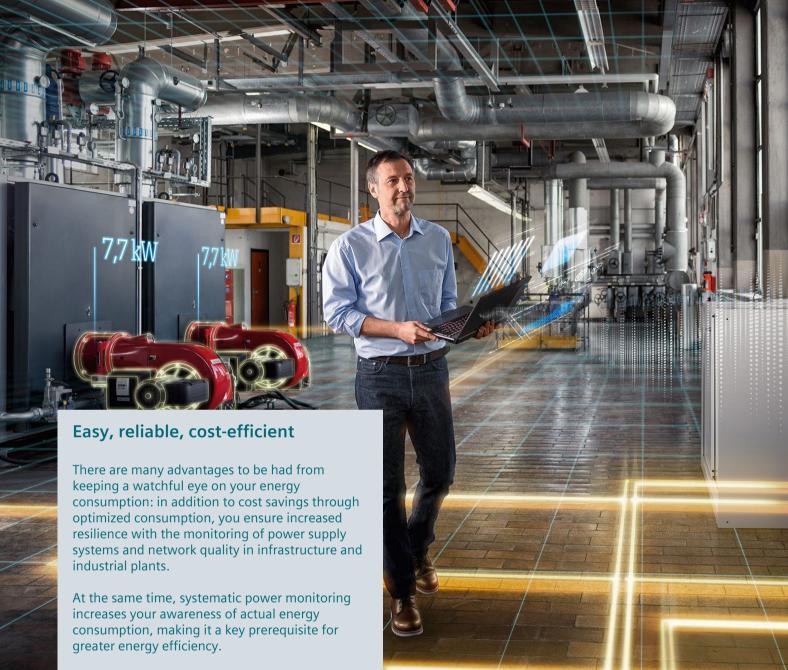
• For parameterization on the front using software ATC6 front interface Features Article No. • Mini-USB cable, 1.8 m 3KC9000-8TL73

Protective seal



• For front IP65 protection Suitable for Version Article No. 3KC ATC6300 144 × 144 mm 3KC9000-8TL67 3KC ATC6500 240 × 180 mm 3KC9000-8TL68

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Integration into open IoT operating systems such as MindSphere results in even greater optimization potential.

What is more, with a power monitoring system you lay the foundation for regular energy audits and a corporate energy management system according to ISO 50001 and ISO 50003.

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- Brochure Reliable, sustainable, and efficient -TÜV-certified power monitoring system in accordance with ISO 50001 (109744679)
- Brochure SENTRON portfolio for power monitoring (109744725)

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- Configuration manual Measuring devices and power monitoring (45315973)
- Equipment manual 7KT PAC1600 energy meter (109759827)
- Equipment manual 7KT PAC1600 multimeter (109760293)
- System manual 7KT multichannel current measuring system (109483442)
- Equipment manual PAC2200 measuring device (109746835)
- Equipment manual SENTRON PAC3200 power monitoring device (26504150)
- Equipment manual PAC3200T measuring device (109746833)
- System manual SENTRON PAC4200 power monitoring devices (34261595)
- Equipment manual PAC3100 measuring device (37881976)
- Equipment manual SENTRON PAC5100/5200 7KM5212/5412 (109477872)
- Equipment manual 7KM PAC3120 and 7KM PAC3220 (109767307)
- Communication manual SENTRON PAC5100/5200 7KM5212/5412 (109477870)
- System manual 3VA communication IEC/UL (98746267)
- SEM3[™] Embedded Micro Metering Module[™] (109748928)

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Our training courses can be found at www.siemens.com/sitrain-lowvoltage

- Power monitoring with SENTRON (WT-LVAEM)
- Energy management Basic training (LV-EMSENTB)
- Energy management Training for experts (LV-EMSENTE)
- Communication with SENTRON components (LV-COM)



Technical overview of measuring devices, power monitoring and digitalization solutions



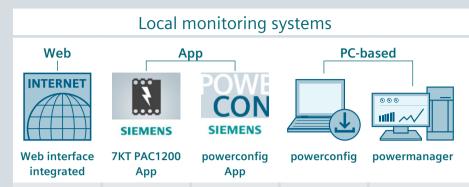
The fast way to get you to our online services

This page provides you with comprehensive information and links on measuring devices, power monitoring and digitalization solutions

www.siemens.com/lowvoltage/product-support (109764480)

Power monitoring

Software



Functions	tor	power	monitoring

Configuring / commissioning / parameterizing	_	_			_
Displaying current data	•	•	•	•	•
Displaying / evaluating current / historical values	•	•	•	•	•
Prepared reports Customized reporting	_	-	_	_	•
	_	_	_	_	•
Data analysis in the cloud					•
Additionally for anargy management					

Additionally for energy management

Switching loads on and off

IoT data platform

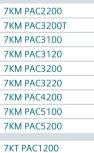
7KN Powercenter 3000

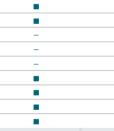
Measuring devices and circuit breakers

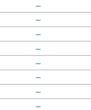
Measuring devices for industrial applications



7KM PAC2200
7KM PAC3200T
7KM PAC3100
7KM PAC3120
7KM PAC3200
7KM PAC3220
7KM PAC4200
7KM PAC5100
7KM PAC5200

















Measuring devices for buildings











■ Function available

4			
ă	101	1	
ų			
- 12	æ	1	

3WI 3WL10 / 3VA2 **3VA ETU8**

7KT PAC1600 SEM3

- □ Available with limited functionality
- Function not available



Hardware components

Industry

			52510000000 55 49866 46556 1586	231.6, 231.6, 231.6.	230, 230, 230,	231.6 231.6 231.6
	7KM	7KM	7KM	7KM PAC3120	7KM	7KM PAC3220
	PAC2200	PAC3200T	PAC3100	new	PAC3200	new
Installation type Front mounting Standard mounting rail	- = -	- = -	■ - -	■ - -	■ - -	= - -
Screw mounting	-1-1-	-1-1-	-1-1-	-1-1-	-1-1-	- 1-1-
Withdrawable Fixed-mounted	-1-	-1-	- -	-1-	-1-	- -
Measuring connection				·	·	
Direct measurement		-	_	_	-	-
Transformer measurement						
Multichannel measuring system	_	_	_	_	_	-
Suitable transformers						
Window-type current transformers						
Folding transformer			•			
Integrated transformer	-	-	-	-	-	-
Commissioning						
MID version		-	-	-	-	-
Max. input voltage L-L/L-N	480 V/277 V	480 V/277 V	480 V/276 V	690 V/400 V	690 V/400 V 1)	690 V/400 V
Transformer connection version	x/1 A or x/5 A	x/1 A or x/5 A	x/5 A	x/1 A or x/5 A	x/1 A or x/5 A	x/1 A or x/5 A
Direct connection version	65 A	-	-	-	-	-
DC power supply unit with	-	-	_	22 65 V DC	22 65 V DC	22 65 V DC
extra-low voltage version						
Single-phase counter version		-	-	-	-	-
Electrically isolated voltage inputs	-	-	-	-	-	-
Version without display (for web interface)	-	•	-	-	-	-
Evaluation						
Management accomplished						
Measured quantities	_	_		_		_
Average value of measured values	:	•	-		-	•
Average value of measured values Voltage, current, frequency	:	:	÷		-	•
Average value of measured values Voltage, current, frequency Power, power factor	1	:	÷	_	i	:
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement	60 days	•	:	:	i	
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage	60 days	€ 60 days	-	- ■ 60 days	-	- 60 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ	60 days	60 days	- = - - = = -	:	- - - - - (THD indication)	
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current)	-	€ 60 days	-	- ■ 60 days	- - - - - - (THD indication)	- 60 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current)	-	60 days	-	- ■ 60 days		- 60 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart	-	60 days	-	- ■ 60 days		- 60 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording	-	60 days	-	- ■ 60 days		6 0 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15	-	60 days	-	- ■ 60 days		6 0 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording	-	60 days	-	- ■ 60 days		6 0 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions	-	60 days -	-	60 days -		60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter	-	60 days -	-	60 days -		60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring	-	60 days - - - - - - -	-	60 days - - - - - - - - - - - - - -		60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions	-	60 days - - - - - - -	-	60 days - - - - - - - - - - - - - -		60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log	-	60 days - - - - - - -	-	60 days - - - - - - - - - - - - - -		60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder	-	60 days - - - - - - -	-	60 days - - - - - - - - - - - - - -		60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces		60 days - -	- - - - - - - - - - - - -	60 days -	THD indication)	60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs	-	60 days - - - - - - -	-	60 days - - - - - - - - - - - - - -		60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs SO-Interface		60 days - -	- - - - - - - - - - - - -	60 days -	THD indication)	60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs SO-Interface M-Bus		60 days - -	- - - - - - - - - - - - - - - - - - -	60 days -	THD indication)	60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs SO-Interface M-Bus RS485 (Modbus RTU)		60 days - -	- - - - - - - - - - - - - - - - - - -	60 days -	THD indication)	60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs SO-Interface M-Bus RS485 (Modbus RTU) Ethernet with Modbus TCP		60 days - -	- - - - - - - - - - - - - - - - - - -	60 days -	THD indication)	60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs SO-Interface M-Bus RS485 (Modbus RTU) Ethernet with Modbus TCP BACnet		60 days - -	- - - - - - - - - - - - - - - - - - -	60 days -	THD indication)	60 days -
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs SO-Interface M-Bus RS485 (Modbus RTU) Ethernet with Modbus TCP BACnet More information	- - - - - - - -	60 days - - - - - - -	- - - - - - - - - - - - - - - -	60 days 60 days 60 days 7	(THD indication)	60 days
Average value of measured values Voltage, current, frequency Power, power factor Energy measurement Daily energy storage Apparent Active Reactive energy cos φ Distortion factor THD (voltage, current) Harmonics (voltage, current) Phase angle/phase chart Load profile recording Flicker acc. to IEC 61000-4-15 Monitoring functions Operating hours counter Limit monitoring Logic functions Event log Gateway function Reporting acc. to EN 50160 Integrated fault recorder Integrated communication interfaces Digital inputs/digital outputs SO-Interface M-Bus RS485 (Modbus RTU) Ethernet with Modbus TCP BACnet		60 days - -	- - - - - - - - - - - - - - - -	60 days -	THD indication)	60 days -



Accessories

Communication modules

		0 % 525		
Indicator		7KM Switched Ethernet PROFINET / Modbus TCP	7KM PROFIBUS DP	7KM RS485 Modbus RTU
Industry	7KM PAC2200	-	-	-
	7KM PAC3200T	-	-	-
498. 465. 158.	7KM PAC3100	-	-	-
2218 2218 2218	7KM PAC3120 new	-	-	-
738 238 238	7KM PAC3200			•
- 2218 - 2218 - 2318 - 2318	7KM PAC3220 new			•
hh.h.	7KM PAC4200			•
	7KM PAC5100	-	-	-
	7KM PAC5200	-	-	-
Buildings and in	frastructure			
	7KT PAC1200	-	-	-
and one of the state of the sta	7KT PAC1600	-	-	-
	SEM3	-	-	-
Circuit breakers				
	3WL	-	-	-
	3WL10 / 3VA27	-	-	-
one T	3VA ETU8	•		•

Expansion modules

mmi



Current transformers



7KM PAC 4DI/2DO	7KM PAC I(N), I(Diff), analog	4NC Current transformers	7KT Current transformers
-	-		
-	-		
-	-		
-	-		
-		•	
	•	•	
		•	
-	-	•	
-	-	•	
-	-		
-	-		
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Software

	Local monitoring systems							
	Web INTERNET Web interface	SIEMENS 7KT PAC1200	CON SIEMENS powerconfig	PC-b	powermanager			
	integrated	Арр	App					
Operating environment								
Free use	•	•	•	•	Trial license for up to 10 devices, max. 60 days			
System requirements	Browser	Android, iOS	Android	win x64	win x64			
Download	_ (pre-installed)	play.google.com itunes.apple.com	play.google.com	http://support. automation.siemens. com/WW/view/ en/63452759	Trial license: . http://support. automation.siemens. com/WW/view/ en/64850998			
Suitable according to ISO 50001	_	-	-	_	■ (TÜV)			
Connection of non-Siemens devices	_		_	_				
Local operation without cloud	•	•	•	•				
Can be connected to the cloud	_	_	_	-	•			

■ Function available

□ Available with limited functionality

- Function not available

	Cloud
7KN Powercenter 3000	MindSphere (Powercenter)
-	Subscription
_	Browser
-	-
•	•
•	•
•	-
•	•

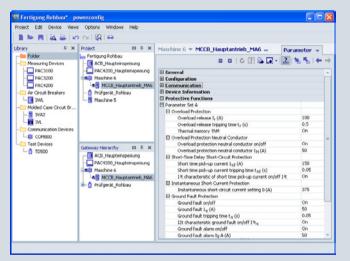
powerconfig

PC-based software for commissioning and maintenance

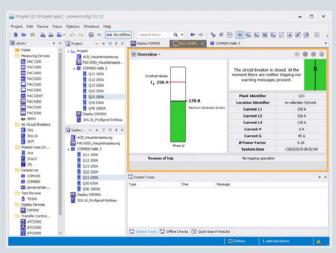
powerconfig is available free of charge at www.siemens.com/powerconfig

You can find more information on the Internet at www.siemens.com/sentron

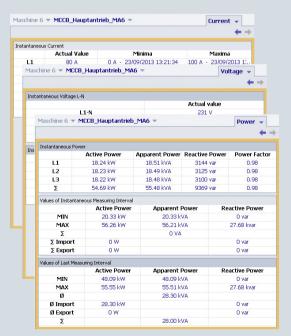
- PC-based software tool for the efficient commissioning and diagnostics of communication-capable SENTRON components
- Supports all PAC measuring devices incl. expansion modules, 3WL/3VA circuit breakers and further communication-capable components, e.g. ATC6300
- Service functions:
 - Firmware updates
 - Switching of language packs for 7KM PAC measuring devices
- General range of functions:
- Facilitates the parameterization of the devices
- Saving and printing of device settings
- Monitoring, saving and printing of instantaneous measured quantities
- Execution of specific device functions, such as resetting of devices and setting of energy counters
- Additional functional scope with 7KM PAC4200 and 3VA:
 - Readout of data stored in the device (events, load profile history, daily energy counters)
 - Saving in csv format



Setting of parameter values



Display of the circuit breaker state



Display of actual measured quantities

powermanager V3

PC-based power monitoring software

New in powermanager 3.5

- Optimized devices support for:
 - PAC1600
 - PAC4200 with firmware V2.1
 - SEM3 support Modbus RTU
- Extension of the scope of service:
 - Integrated MindSphere interface tuned to SENTRON MindApps
 - OPC UA Server support (fee-based option)

Version	Description	Article No.
powermanager V3.5		
Basic Package	Full product license for up to 10 devices, installation for client/server, web access	3ZS2711-0CC30-0YA0
Trial license	Full product license limited to 60 days for up to 10 devices,	
	incl. "Expert" and "Web" option packs	
	Available free of charge at https://support.industry.siemens.com/cs/ww/en/view/64850998	
/3.x device expansions		
Device Pack (20)	Device expansion license for up to 20 devices	3ZS2711-0CC30-0YD0
Device Pack (50)	Device expansion license for up to 50 devices	3ZS2712-0CC30-0YD0
Device Pack (100)	Device expansion license for up to 100 devices	3ZS2713-0CC30-0YD0
Device Pack (200)	Device expansion license for up to 200 devices	3ZS2714-0CC30-0YD0
Device Pack (500)	Device expansion license for up to 500 devices	3ZS2715-0CC30-0YD0
Pevice Pack (1000)	Device expansion license for up to 1000 devices	3ZS2716-0CC30-0YD0
Option packs		
Expert" option pack	Option for creating/presenting any number of freely configured images	3ZS2710-2CC20-0YH0
Client (5)" option pack	Expansion for up to 5 clients	3ZS2710-3CC00-0YD0
Distributed Systems (2)"	Option for the connection of 2 autonomous powermanager systems	3ZS2718-1CC00-0YH0
pption pack	for the exchange of measured values and alarms	
Distributed Systems (5)"	Option for the connection of 5 autonomous powermanager systems	3ZS2718-2CC00-0YH0
ption pack	for the exchange of measured values and alarms	
Distributed Systems (10)"	Option for the connection of 10 autonomous powermanager systems	3ZS2718-3CC00-0YH0
ption pack	for the exchange of measured values and alarms	
Jpdate powermanager V2.0 t	o V3.0	
Jpdate license	From V2.0 Lean to V3.x (10)	3ZS2711-0CC30-0YE0
Jpdate license	From V2.0 Standard to V3.x (50)	3ZS2712-0CC30-0YE0
Jpdate license	From V2.0 Maximum to V3.x (100)	3ZS2713-0CC30-0YE0
Jpdate license	From V2.0 Maximum to V3.x (200)	3ZS2714-0CC30-0YE0
ystem packages		
System 1	Package comprising	3ZS2812-5CC20-0AY0
	1× powermanager Basic Package	
	1× PAC4200 (+ RS485 module) and	
	1× PAC3100	
System 3	Package comprising	3ZS2813-2CC20-0YA0
	1× powermanager Basic Package	
	3× PAC 3200	
System 4	Package comprising	3ZS2812-7CC20-0YA0
	1× powermanager Basic Package	
	1× PAC4200 4× PAC1600	
	1× RS485 module	
Cystom E		3ZS2812-8CC20-0YA0
System 5	Package comprising 1× powermanager Basic Package	3232812-8CC2U-UYAU
	5× PAC2200 Modbus TCP	

powermanager V4 new

PC-based power monitoring software

SENTRON powermanager V4.1

SENTRON powermanager V4.1 is based on a new platform with advanced graphical capabilities and a standard SQL database. The workflows for setting up the system, creating devices, graphically displaying the device data and processing it in reports have been fundamentally revised. The same devices as in V3.5 are supported, with the exception of the obsolete PAC1500 and SICAM P850/855.

The migration of existing powermanager V3.x projects will be supported as of a future powermanager version.

You can find more information on the Internet at www.siemens.com/powermanager

You can find training courses on the Internet at www.siemens.com/sitrain-lowvoltage

Version	Description	Article No.
powermanager V4.1		
Extended Package	Full product license for up to 10 devices, installation for client/server, web access	7KN2710-2CE40-0YC0
Trial license	powermanager V4.1	
	Full product license limited to 60 days for up to 10 devices,	
	incl. "Graphics Editor" option pack	
p :	Available free of charge at https://support.industry.siemens.com	
Device expansions		7/4/0744 46540 07/60
Device Pack (20)	Device expansion license for up to 20 devices	7KN2711-1CE40-0YC0
Device Pack (50)	Device expansion license for up to 50 devices	7KN2711-2CE40-0YC0
Device Pack (100)	Device expansion license for up to 100 devices	7KN2711-3CE40-0YC0
Device Pack (200)	Device expansion license for up to 200 devices	7KN2711-4CE40-0YC0
Device Pack (500)	Device expansion license for up to 500 devices	7KN2711-5CE40-0YC0
Device Pack (1000)	Device expansion license for up to 1000 devices	7KN2711-6CE40-0YC0
Option packs		
"Graphics Editor" option pack	Option for creating/presenting any number of freely configured images	7KN2712-0CE40-0YC0
"Client (2)" option pack	Expansion for up to 2 clients	7KN2712-1CE40-0YC0
"Client (5)" option pack	Expansion for up to 5 clients	7KN2712-2CE40-0YC0
"OPC UA/DA Server" option pack	Option for using OPC UA/DA Server	7KN2712-3CE40-0YC0
"powermanager Server" option pack	Additionally, powermanager server license for distributed systems without devices, web, etc.	7KN2712-4CE40-0YC0
Upgrade powermanager V3.x to V	4.x	
Upgrade license	From powermanager V3.x to V4.x	7KN2713-2CE40-0YC0
System packages		
System 1	Package comprising	7KN2715-1CE40-0YC0
	1× powermanager Extended	
	1× PAC4200	
	1× PAC3120	
	1× RS485 modules	
System 3	Package comprising	7KN2715-3CE40-0YC0
	1× powermanager Extended 3× PAC3220	
System 4	Package comprising	7KN2715-4CE40-0YC0
System 4	1× powermanager Extended	7KN2713-4CL40-01C0
	1× PAC4200	
	4× PAC1600	
	1× RS485 module	
System 5	Package comprising	7KN2715-5CE40-0YC0
	1× powermanager Extended	
	5× PAC2200 Modbus TCP	

7KN Powercenter new

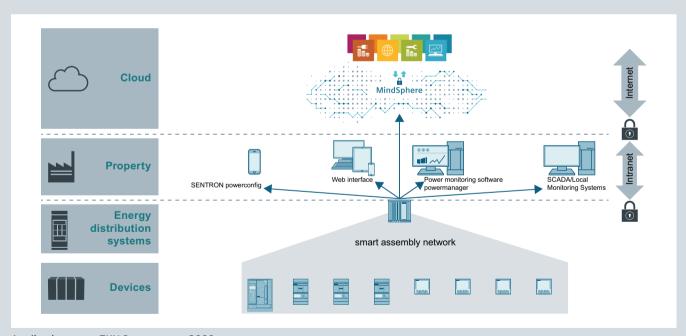
Edge/IoT-based data acquisition and visualization for low-voltage power distribution

7KN Powercenter 3000

- Offers a range of interfaces for the digitalization of low-voltage power distribution
 - One web interface for a clear overview of all connected devices
 - Low-voltage power distribution data interface to MindSphere, the IoT operating system from Siemens
- Communication interface via Modbus TCP for diverse applications, e.g. powermanager
- Provision of the 15 min energy values for the connected devices as a basis for energy management according to ISO 50001
- Flexible IT security features for protection against unauthorized access
- Easy commissioning using powerconfig
- Compact design, 24 V DC supply

You can find more information on the Internet at www.siemens.com/powermonitoring

MountingInterfacesProtocolsArticle No.Standard rail mounting2× EthernetModbus TCP, http, MindSphere7KN1310-0MC00-0AA8



Application areas 7KN Powercenter 3000

SIMATIC Energy Suite

for integrated energy management

Highlights

- Simple and intuitive configuration instead of programming
- Automatic generation of the PLC energy program
- · Convenient integration of measuring components from the Siemens portfolio and from other manufacturers
- Integrated into the TIA Portal and the automation system
- Archiving in WinCC Professional or PLC
- Seamless interfacing to Energy Manager PRO and Energy
- Analytics

Additional information on the SIMATIC Energy Suite:

www.siemens.com/energysuite

SIMATIC Modbus/TCP SENTRON PAC

for 7KM PAC3200/4200 measuring devices

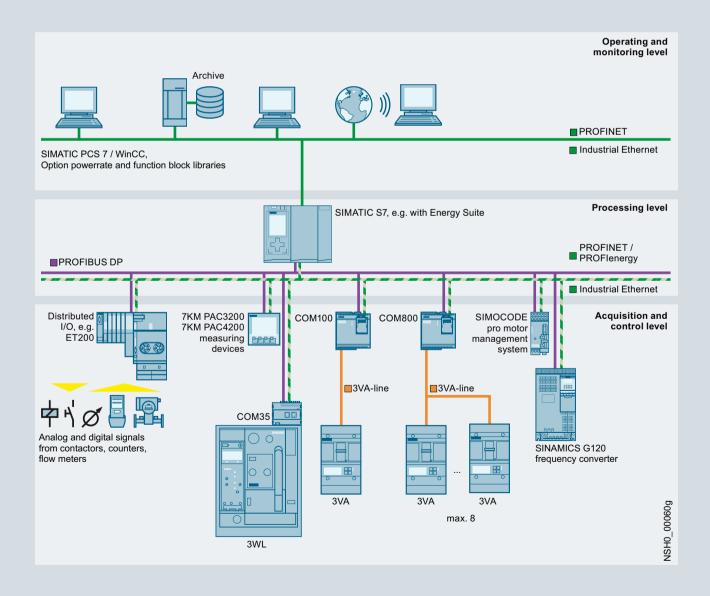
Use and version	Valid for	Туре	Article No.
Communication via the integrated	1 CPU and up to 20 SENTRON PACs	Modbus/TCP 20 SENTRON PAC	6AV6676-6MA30-0AX0
PN interface for reading values out	1 CPU and up to 100 SENTRON PACs	Modbus/TCP 100 SENTRON PAC	6AV6676-6MA30-1AX0
of PAC 3200 and PAC PAC 4200 devices, single license	1 CPU and up to 512 SENTRON PACs	Modbus/TCP 512 SENTRON PAC	6AV6676-6MA30-2AX0

10

PAC/3WL/3VA SIMATIC PCS 7 library

for 7KM PAC3200/4200 measuring devices and 3WL/3VA/3VL circuit breakers

Application	Version	Type of delivery	Article No.
PAC/3WL/3VA SIMATIC PCS 7 library			
AS blocks and faceplates for integrating the 3WL/3VA/3VL circuit breakers into SIMATIC PCS 7, V8.x or V9.0 SP1 For each SIMATIC PCS 7 Operator Station of the single station/server version, a license containing the following is required: Engineering license for one SIMATIC PCS 7 Operator Station of the single station/server version Runtime license for one automation system (1 required per automation system, further AS runtime licenses can be ordered separately)	Engineering and runtime software, software class A, 2-language (English, German), single license for one installation	Software and electronic documentation on DVD, engineering and runtime license as Certificate of License	3ZS2787-1CC30-0YG0
AS runtime license for PAC/3WL/3VA library for SIMATION	C PCS 7		
License for one automation system in each case	Runtime software, software class A, 2-language (English, German), single license for one installation	Runtime license as Certificate of License without software and documentation	3ZS2787-1CC30-6YH0



7KM PAC measuring devices

Basic units









Connections	Power supply	Display	Inter- face	MID	7KM PAC2200	7KM PAC3200T	7KM PAC3100	7KM PAC3120 new		
Transform	ner measureme	nt								
Screw	Self-powered	With	ith M-Bus	With	7KM2200-2EA30-1GA1	-	-	-		
terminals				Without	7KM2200-2EA30-1CA1	-	-	-		
			Modbus	With	7KM2200-2EA30-1HA1	-	-	-		
			RTU	Without	7KM2200-2EA30-1DA1	-	-	-		
			Modbus	With	7KM2200-2EA30-1JA1	-	-	-		
			TCP	Without	7KM2200-2EA30-1EA1	-	-	-		
-	AC/DC wide- voltage power	With	Modbus RTU	Without	-	-	7KM3133-0BA00-3AA0	7KM3120-0BA01-1DA0		
	supply unit		Modbus TCP	Without	-	-	-	-		
		Without	Modbus TCP	Without	-	7KM3200-0CA01-1AA0	-	-		
	DC power value with extra- low voltage	nit ra-	Modbus TCP	Without	-	-	-	-		
			Modbus RTU	Without	-	-	-	7KM3120-1BA01-1EA0		
5	AC/DC wide- voltage power supply unit	With	Modbus TCP	Without	-	-	-	-		
Direct me	asurement									
Screw	Self-powered	With	M-Bus	With	7KM2200-2EA40-1GA1	-	-	-		
terminals				Without	7KM2200-2EA40-1CA1	-	-	-		
					Modbus	With	7KM2200-2EA40-1HA1	-	_	-
			RTU	Without	7KM2200-2EA40-1DA1	-	-	-		
			Modbus	With	7KM2200-2EA40-1JA1	-	-	-		
			TCP	Without	7KM2200-2EA40-1EA1	-	_	-		

Further techni	cal specifications	7KM2200	7KM3200	7KM3133	7KM3120-0	7KM3120-1
Basic data						
Installation	Installation		Standard mounting rail	Front mounting	Front mounting	
Mounting width		6 MW	6 MW	_	_	
Control panel instrum	ent	-	-	96 × 96 mm	96 × 96 mm	
External auxiliary voltage	50/60 Hz AC	-	90 276 V	100 240 V ±10%	100 250 V ±10%	-
	DC	-	110 275 V	110 250 V ±10%	100 250 V ±10%	24 60 V ±20%
Measuring inputs						
Transformer connection	Secondary input current I _e	x/1 A or x/5 A	x/1 A or x/5 A	x/5 A	x/1 A or x/5 A	
Direct connection	Input voltage U _e 3 AC 50/60 Hz	480/277 V	480/277 V	480/277 V	690/400 V	690/400 V
	Rated current I _n	65 A	-	-	-	















7KM PAC3200	7KM PAC3220 new	7KM PAC4200	7KM PAC5100	7KM PAC5200
-	-	_	-	_
-	-	_	-	-
-	-	_	-	-
-	-	_	-	-
-	-	_	-	-
_	-	_	-	_
-	-	-	-	-
7KM2112-0BA00-3AA0	7KM3220-0BA01-1DA0	7KM4212-0BA00-3AA0	7KM5212-6BA00-1EA2	7KM5412-6BA00-1EA2
-	-	-	7KM5212-6CA00-1EA8	7KM5412-6CA00-1EA8
7KM2111-1BA00-3AA0	7KM3220-1BA01-1EA0	7KM4211-1BA00-3AA0	-	-
7KM2112-0BA00-2AA0	-	7KM4212-0BA00-2AA0	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	_	-	-
-	-	-	-	-
-	-	-	-	-

7KM2112	7KM2111	7KM3220-0	7KM3220-1	7KM4212	7KM4211	7KM5212-	7KM5412
Front mounting		Front mounting		Front mounting		Front mounting/ standard mounting rail	Front mounting/ standard mounting rail
_		_		-		_	-
96 × 96 mm		96 × 96 mm		96 × 96 mm		96 × 96 mm	96 × 96 mm
95 240 V ±10%	-	100 250 V ±10%	-	95 240 V ±10%	_	110 230 V ±10%	110 230 V ±10%
110 340 V ±10%	22 65 V ±10%	100 250 V ±10%	24 60 V ±20%	110 340 V ±10%	22 65 V ±10%	24 250 V ±10%	24 250 V ±10%
x/1 A or x/5 A		x/1 A or x/5 A		x/1 A or x/5 A		x/1 A or x/5 A	x/1 A or x/5 A
690/400 V	400/230 V	690/400 V	690/400 V	690/400 V	500/289 V	690/400 V	690/400 V
-		-		_		-	-

7KM PAC measuring devices

Accessories

7KM PAC3100 7KM PAC3120 7KM PAC3200 7KM PAC3220 7KM PAC4200

7KM PAC TMP2 standard mounting rail adapter



- Two-tier adapter for mounting a measuring device on a standard mounting rail
- For manual intervention

7KM9900-0XA00-0AA0

7KM PAC TMP mounting plate



- Adapter for mounting a measuring device on standard mounting rail
- Display faces backwards towards standard mounting rail
- Readout and evaluation of measurements solely via mains operation

7KM9900-0YA00-0AA0

Compact holder



- Device holder for 7KM PAC3100 /3120/3200/3220/4200
- 10 holders for 5 PAC devices
- For seamless side-by-side mounting of the devices (without spaces)

7KM9900-0GA00-0AA0

Spare parts 7KM PAC



- · Spare parts comprising:
- Device holders for panel mounting (2X)
- Screw terminal for connection of voltage inputs
- Screw terminal for connection of current inputs
- Terminal block inputs/outputs for 7KM PAC3100/4200
- Terminal block inputs/outputs for 7KM PAC3200
- RS485 terminal blocks for 7KM PAC3100

7KM9900-0SA00-0AA0

Expansion and communication modules

		7KM PAC3200	7KM PAC3220 7KM PAC4200	COM100/800 (3VA)
7KM Switched	Ethernet PROFINET communication module			
	Latest PROFINET switching properties S2 system redundancy for operation in H systems CiR Configuration in Run Firmware update via the modules for PAC4200 and PAC3220			
PPPRPPP			7KM9300-0AE02-0AA0	
7KM PROFIBUS	DP communication module			
			7KM9300-0AB01-0AA0	
7KM RS485 cor	mmunication module			
***************************************			7KM9300-0AM00-0AA0 ¹ /	
7KM PAC 4DI/2	2DO expansion module			
			7KM9200-0AB00-0AA0	
7KM PAC I(N),	I(Diff), analog expansion module			
aug d	To add the following functions to the measuring inputs: N conductor measurement Two analog inputs, also for measuring non-electrical quantities such as temperature, water or air pressure Residual current measurement via type A or type B summation current transformers			
		7KM9200-0AD00-0AA0	7KM9200-0AD00-0AA0	

¹⁾ Suitable for 7KM PAC4200 (especially for the Modbus TCP/RTU Gateway)

Residual-current transformers for 7KM PAC I(N), I(Diff), analog expansion module, see page 11/1

7KT PAC measuring devices

Basic unit PAC1600



Connections	Version	Power supply	Display	Interface	MID	7KT PAC1600
Transformer mea	surement					
Screw terminals	3-phase	Self-powered	With	Modbus RTU	Without	7KT1661
					With	7KT1662
				M-Bus	Without	7KT1663
					With	7KT1664
				S0-Interface	Without	7KT1672
					With	7KT1673
	3-phase, universal	Auxiliary power:	With	-	Without	7KT1681
		100 240 V AC, 110 250 V DC 50/60Hz		Modbus RTU	Without	7KT1682
Direct measureme	ct measurement					
Screw terminals	1-phase	Self-powered	With	Modbus RTU	Without	7KT1651
					With	7KT1652
				M-Bus	Without	7KT1653
					With	7KT1654
				S0-Interface	Without	7KT1655
					With	7KT1656
	3-phase	Self-powered	With	Modbus RTU	Without	7KT1665
					With	7KT1666
				M-Bus	Without	7KT1667
					With	7KT1668
			S0-Interface	Without	7KT1670	
					With	7KT1671

PAC1200 multichannel current measuring system



Connections	Version	Power supply	Display	Interface	MID	7KT PAC1200
Direct measureme	ent					
Screw terminals	3-phase	Self-powered	Without	Modbus TCP	Without	7KT1260

PAC1200		7KT PAC1200
Data manager with 7		
and the second	Number of connections	Article No.
	3	7KT1233
a de la casa de la cas	6	7KT1236
A CALL BOOK	9	7KT1238
· · · · · · · · · · · · · · · · · · ·	12	7KT1242
Data manager with 7	KT1260, sensors	
	Current I _e	Article No.
	40 A	7KT1254
3	63 A	7KT1255

PAC1200 Bundles



Data manager	Sensor bars	Sensors	18 bundle	24 bundle
1× data manager 7KT1260	2× 9-sensor bar 7KT1238	18× sensors 40 A 7KT1254	7KT1222	-
1× data manager 7KT1260	2× 12-sensor bar 7KT1242	24× sensors 40 A 7KT1254	_	7KT1223

SEM3 multichannel current measuring system

Data manager



Connections	Version	Power supply	Display	Interface	MID	
Transformer meas	urement					
Screw terminals	3-phase	Self-powered	Without	Modbus TCP RS485 Modbus RTU	Without	US2:SEM3CONTROLLER

Further technical specifications	SEM3
Basic data	
Installation	Screw mounting
Measuring inputs	
Max. input voltage 50/60 Hz AC	480 V/277 V
Standard current transformers	50 1200 A/0.1 A
Folding transformer	50 2000 A/0.1 A

Accessories

Metering modules



- For recording measured values
- Accuracy of 0.2% or 1% for the entire measurement including current transformer
- Simple setting of phase configuration by means of slide switch
- Connection of a current transformer for measuring a phase
- Metering module is plugged into meter rack

Measuring accuracy	Article No.
0.2%	US2:SEM3PHAMETER
1%	US2:SEM3PLAMETER

Meter racks



Version	Article No.
For 3 metering modules	US2:SEM3RACK3
For 9 metering modules	US2:SEM3RACK9
For 15 metering modules	US2:SEM3RACK15
For 21 metering modules	US2:SEM3RACK21

Connecting cables



• 600 V insulated special cable for connecting meter racks to the data manager

Length	Article No.
0.3 m	US2:SEM3CAB12INCH
0.6 m	US2:SEM3CAB24INCH
0.9 m	US2:SEM3CAB36INCH

Standard current transformers



- Standard power cable brown and yellow, 1.82 m long
- Can be extended up to 100 m while still maintaining accuracy
 Transformer configuration is carried out in the data manager

	Output signal	Transformer transmission ratio	Article No.
100 mA	100 mA	50:0.1	US2:SEM3SCCT50
		125:0.1	US2:SEM3SCCT125
	250:0.1	US2:SEM3SCCT250	
	400:0.1	US2:SEM3SCCT400	
	600:0.1	US2:SEM3SCCT600	
		800:0.1	US2:SEM3SCCT800
		1200:0.1	US2:SEM3SCCT1200

Folding transformers new



- Standard power cable brown and yellow, 1.82 m long
- Can be extended up to 100 m while still maintaining accuracy
- Transformer configuration is carried out in the data manager

	3	
Output signal	Transformer transmission ratio	Article No.
100 mA	50:0.1	7KT1280-5MA00
	125:0.1	7KT1280-5MA01
	250:0.1	7KT1280-5MA02
	400:0.1	7KT1280-5MA03
	600:0.1	7KT1280-5MA04
	800:0.1	7KT1280-5MA05
	1200:0.1	7KT1280-5MA06
	1600:0.1	7KT1280-5MA07
	2000 - 0 1	7VT1 200 FMA00

DIN rail adapters new



Article No.

US2:SEM3DINKIT

Time and pulse counters

Mechanical counting mechanisms







Display	Resetting	Rated frequency	Rated control supply voltage U _c	48 × 48 mm	72 × 72 mm	-
Time counter						
00000.00 h	Without	-	10 80 V DC	7KT5500	-	-
			10 50 V DC	_	7KT5600	_
			12 24 V DC	-	-	7KT5801
		50 Hz	24 V AC	7KT5505	-	7KT5802
			115 V AC	7KT5501	7KT5601	7KT5803
			230 V AC	7KT5502	7KT5602	7KT5804
			115 V AC	7KT5503	7KT5603	7KT5806
			230 V AC	7KT5504	7KT5604	7KT5807
Pulse counter						
0000000	Without	_	12 24 V DC	-	_	7KT5811
		50/60 Hz	24 V AC	-	-	7KT5812
			230 V AC	-	-	7KT5814

Further technical specifications	7KT55	7KT56	7KT58
Basic data			
Installation	Front mounting	Front mounting	Standard mounting rail
Mounting width	-	-	2 MW
Front frame	48 × 48 mm	72 × 72 mm	-
Display	Drum-type register	Drum-type register	Drum-type register
Version	-	With narrow frame according to DIN 43700	-

Accessories		7KT55	7KT56	7KT58	
Cover					
	Size		Article No.	Article No.	Article No.
55 × 55 mm			7KT9020	-	-
Sealing ring for co	ver				
	Degree of protection	Scope of supply	Article No.	Article No.	Article No.
	IP43 (in switchboards with smooth surfaces) 1 set = 5 units		7KT9000	-	-
Terminal cover					
	Degree of protection		Article No.	Article No.	Article No.
IP20 (with connected conductors)			-	7KT9021	-

Electronic counting mechanisms



Display	Resetting	Rated frequency	Rated control supply voltage U _c	
Time counter				
000000.0 h	Without	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5821
	Electrical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5822
	Electrical and mechanical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5823
Pulse counter				
0000000	Electrical and mechanical	50/60 Hz	24 240 V AC, 12 150 V DC	7KT5833

Further technical specifications 7KT58.. Basic data Installation Standard mounting rail Mounting width 2 MW Display LCD display

Current transformers

for measuring purposes

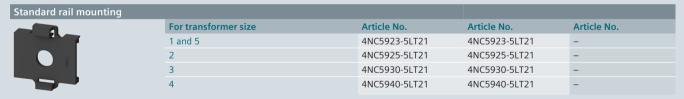


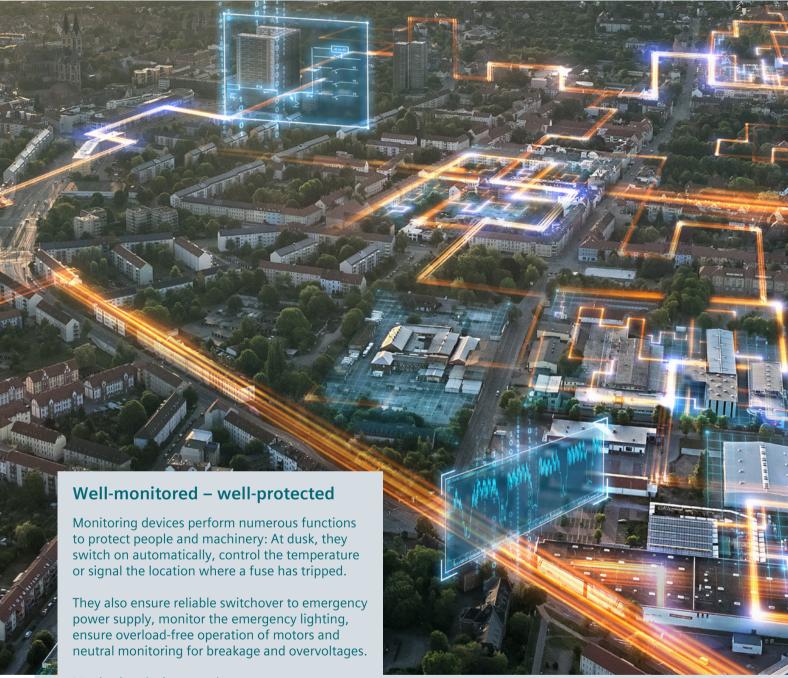
				2	2	
Size	Rated operational voltage U _e	Rated primary current I _{pr}	Rated power P _n	I _{sr} = 5 A	I _{sr} = 1 A	I _{sr} = 5 A
Accuracy	class 0.2					
1	720 V	150 A	1 VA	4NC5121-2FA21	-	-
		200 A	2.5 VA	4NC5122-2FC21	-	-
		250 A	2.5 VA	4NC5123-2FC21	-	-
		300 A	5 VA	4NC5124-2FE21	-	-
		400 A	5 VA	4NC5125-2FE21	-	-
		500 A	5 VA	4NC5126-2FE21	-	-
5	720 V	600 A	5 VA	4NC5227-2FE21	-	-
		700 A	5 VA	4NC5228-2FE21	-	-
		800 A	5 VA	4NC5231-2FE21	-	-
		1000 A	5 VA	4NC5232-2FE21	-	-
Accuracy	class 0.5					
1	720 V	100 A	1 VA	4NC5117-2DA21	4NC5117-0DA21	-
		150 A	2.5 VA	4NC5121-2DC21	4NC5121-0DC21	-
		200 A	5 VA	4NC5122-2DE21	4NC5122-0DE21	-
		250 A	5 VA	4NC5123-2DE21	4NC5123-0DE21	-
2	720 V	200 A	5 VA	4NC5222-2DE21	4NC5222-0DE21	-
		250 A	5 VA	4NC5223-2DE21	4NC5223-0DE21	-
		300 A	5 VA	4NC5224-2DE21	4NC5224-0DE21	-
		400 A	5 VA	4NC5225-2DE21	4NC5225-0DE21	-
3	720 V	400 A	5 VA	4NC5325-2DE21	4NC5325-0DE21	-
		500 A	5 VA	4NC5326-2DE21	4NC5326-0DE21	-
		600 A	5 VA	4NC5327-2DE21	4NC5327-0DE21	-
		750 A	5 VA	4NC5330-2DE21	4NC5330-0DE21	-
		800 A	5 VA	4NC5331-2DE21	-	-
4	720 V	800 A	10 VA	4NC5431-2DH21	4NC5431-0DH21	-
		1000 A	10 VA	4NC5432-2DH21	4NC5432-0DH21	-
		1200 A	10 VA	4NC5433-2DH21	4NC5433-0DH21	-
		1500 A	10 VA	4NC5435-2DH21	4NC5435-0DH21	-
		1600 A	15 VA	4NC5436-2DK21	-	-
		2000 A	20 VA	4NC5438-2DL21	-	-
		2500 A	25 VA	4NC5440-2DM21	-	-
		3000 A	30 VA	4NC5441-2DN21	_	-



Size	Rated operational voltage U _e	Rated primary current I _{pr}	Rated power P _n	I _{sr} = 5 A	I _{sr} = 1 A	I _{sr} = 5 A
Accuracy	class 1.0					
1	720 V	50 A	1.2 VA	4NC5112-2CB21	4NC5112-0CB21	-
		60 A	1.2 VA	4NC5113-2CB21	4NC5113-0CB21	-
			1.25 VA	-	-	7KT1200
		75 A	2.5 VA	4NC5115-2CC21	4NC5115-0CC21	-
		100 A	2.5 VA	4NC5117-2CC21	4NC5117-0CC21	7KT1201
		150 A	2.5 VA	4NC5121-2CC21	4NC5121-0CC21	-
			3.75 VA	-	-	7KT1202
		200 A	200 A 5 VA 4NC5122-2CE21 4NC5122-0CE21 -	-		
		250 A	5 VA	4NC5123-2CE21	4NC5123-0CE21	-
2	720 V	200 A	5 VA	4NC5222-2CE21	4NC5222-0CE21	-
		250 A	5 VA	4NC5223-2CE21	4NC5223-0CE21	-
		300 A	5 VA	4NC5224-2CE21	4NC5224-0CE21	-
		400 A	5 VA	4NC5225-2CE21	4NC5225-0CE21	-
3	720 V	400 A	5 VA	4NC5325-2CE21	4NC5325-0CE21	-
		500 A	5 VA	4NC5326-2CE21	4NC5326-0CE21	-
		600 A	5 VA	4NC5327-2CE21	4NC5327-0CE21	-
		750 A	5 VA	4NC5330-2CE21	4NC5330-0CE21	-
4	720 V	800 A	10 VA	4NC5431-2CH21	4NC5431-0CH21	-
		1000 A	10 VA	4NC5432-2CH21	4NC5432-0CH21	-
		1250 A	10 VA	4NC5434-2CH21	4NC5434-0CH21	-
		1500 A	10 VA	4NC5435-2CH21	4NC5435-0CH21	-
		2000 A	12.5 VA	4NC5438-2CJ21	4NC5438-0CJ21	-
		2500 A	12.5 VA	4NC5440-2CJ21	4NC5440-0CJ21	-
		3000 A	30 VA	4NC5441-2CN21	-	-

Accessories





Monitoring devices can do even more, e.g., underload monitoring of asynchronous motors in no-load operation.

Monitoring Devices

The state of the s		
	All the information you need	11/2
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A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about monitoring devices, please visit our website www.siemens.com/lowvoltage



Q Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact



Your product in detail

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

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Everything you need for your order

Refer to the Industry Mall for an overview of your products

Monitoring devices sie.ag/2m3no4A

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

... can be found in our online services

Commissioning + operation



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at www.siemens.com/lowvoltage/cax



Manuals are available for downloading in Siemens Industry Online Support at www.siemens.com/lowvoltage/manuals

• Configuration manual Monitoring devices (45316099)

$oldsymbol{\mathbb{T}}$ The fast track to the experts

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Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog



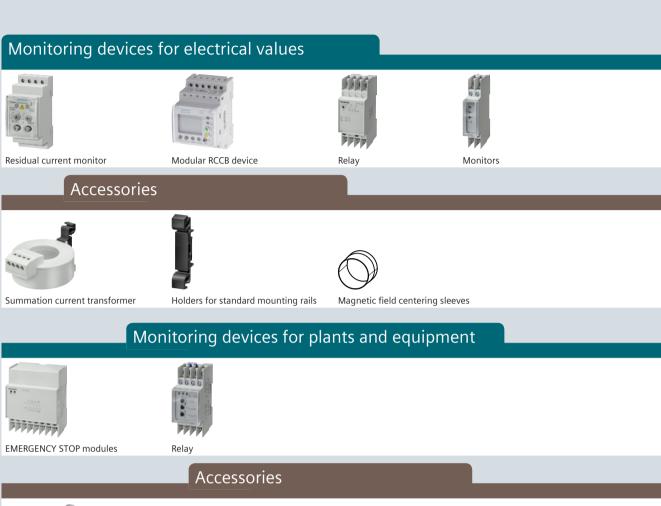
Technical overview of monitoring devices



The fast way to get you to our online services

This page provides you with comprehensive information and links on monitoring devices www.siemens.com/lowvoltage/product-support (109769086)

System overview





11

5SV8 residual current monitors

Type A and type AC

	RCM analog	RCM digital	
Mounting width	2 MW	3 MW	3 MW
		.1	.1
	20 A 0 4	The state of the s	TOTAL DE LA COMPANIE
	9 9	i di	
		55000	35000

Rated operational	Rated residual current $I_{\Delta n}$		Response time Δt		1 channel	4 channels
voltage U _e	Type A	Type AC				
230 V AC	0.03 5 A	>3 A	0.02 5 s	5SV8000-6KK	-	-
	0.03 3 A	5 30 A	0.02 10 s, INS, SEL ¹⁾	-	5SV8001-6KK	5SV8200-6KK

Further technical speci	ifications	5SV8000-6KK	5SV8001-6KK	5SV8200-6KK
Standards				
Standards		EN 62020, IEC 62020	EN 62020, IEC 62020	EN 62020, IEC 62020
Approvals		-	UL	UL
Supply				
Rated operational voltage U _e		230 V AC	230 V AC	230 V AC
Frequency		50/60 Hz	50/60 Hz	50/60 Hz
Rated residual current I _{∆n}	Type A	0.03 3 A	0.03 3 A	0.03 3 A
	Type AC	>3 A	5 30 A	5 30 A
Response time Δt		0.02 5 s	0.02 10 s, INS, SEL 1)	0.02 10 s, INS, SEL 1)
Relay contacts				
Relay contacts		1× alarm	1× pre-alarm, 1× alarm	1× pre-alarm, 4× alarm
Rated voltage		230 V AC	230 V AC	230 V AC
Rated current		6 A	6 A	6 A
Summation current transformer	r			
Diameter		20 210 mm		
Equipment				
Maximum cable length RCM/CT		10 m (shielded cable)	10 m (shielded cable)	10 m (shielded cable)
Conductor cross-section		1.5 mm ²	1.5 mm ²	1.5 mm ²
Test/reset		Yes/Yes	Yes/Yes	Yes/Yes
External tripping operation/extern	nal reset	–/Yes	Yes/Yes	Yes/Yes
Safety				
Degree of protection	Contacts	IP20		
	Front	IP41		
Ambient conditions				
Operating temperature		−10 +50 °C		

¹⁾ INS: Instantaneous, SEL: Selective

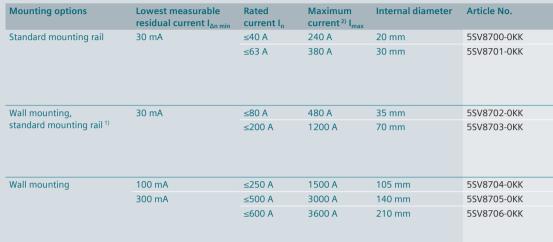
Article No. 5SV8900-1KK

Accessories

Summation current transformers

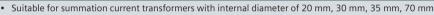
- Including holder for standard mounting rail or wall mounting
- Standard ®

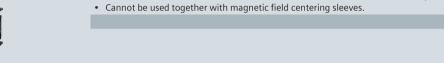






Holders for standard mounting rails









Internal diameter	Article No.
35 mm	5SV8902-1KK
70 mm	5SV8903-1KK
105 mm	5SV8904-1KK
140 mm	5SV8905-1KK
210 mm	5SV8906-1KK

¹⁾ The holder for standard mounting rails is additionally required for mounting onto the standard mounting rail.

²⁾ Short-time starting current, up to 2 s

5SV8 modular RCCB device

Type A

MRCD Mounting width 3 MW



Rated operational voltage U _e	Rated residual current I _{Δn} Type A	Response time Δt	
230 V AC	0.03 3 A	0.02 10 s. INS. SEL 1)	5SV8101-6KK

Further technical specifications

Standards		
Standards		EN 60947-2 (Annex M), IEC 60947-2 (Annex M)
Approvals		-
Supply		
Rated operational voltage U _e		230 V AC from a 1-phase auxiliary voltage source (also externally)
Frequency		50/60 Hz
Rated residual current I _{∆n}	Type A	0.03 3 A (default setting: 30 mA)
	Type AC	-
Response time Δt	$I_{\Delta n} = 30 \text{ mA}$	INS instantaneous
	$I_{\Delta n} > 30 \text{ mA}$	INS – SEL – 0.06 10 s ¹⁾ (default setting INS)
Relay contacts		
Relay contacts		1× alarm,
		1x tripping operation
Rated voltage		230 V AC
Rated current		6 A
Summation current transformer		
Diameter		35 210 mm
Equipment		
Maximum cable length RCM/CT		10 m (shielded cable)
Conductor cross-section		0.125 2.08 mm ²
Test/reset		Yes/Yes
External tripping operation/external re	set	Yes/Yes
Safety		
Degree of protection	Contacts	IP20
	Front	IP41
Ambient conditions		
Operating temperature		−10 +50 °C

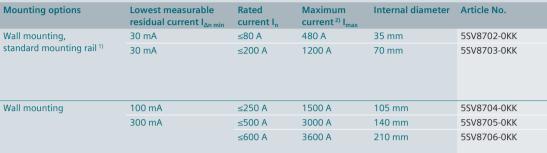
¹⁾ INS: Instantaneous, SEL: Selective

Accessories

Summation current transformers

- Including holder for wall mounting
- Standard ®





Holders for standard mounting rails



- Suitable for summation current transformers with internal diameter of 20 mm, 30 mm, 35 mm, 70 mm
 Cannot be used together with magnetic field centering sleeves.

Article No. 5SV8900-1KK

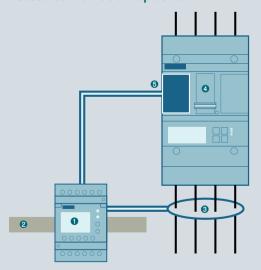
Magnetic field centering sleeves



Internal diameter	Article No.
35 mm	5SV8902-1KK
70 mm	5SV8903-1KK
105 mm	5SV8904-1KK
140 mm	5SV8905-1KK
210 mm	5SV8906-1KK

- 9 The holder for standard mounting rails is additionally required for mounting onto the standard mounting rail. 2 Short-time starting current, up to 2 s

Tested combination options



5SV8101-6KK / -	(tested combinations)
-----------------	-----------------------

3VA24...

2240101-01	XX / - (tested combin	iations)	
Modular I	RCCB device		
5SV8101-6K	K		
2 Standard	mounting rail		
EN 60715 -	TH35 – 7.5 35 – 15		
3 Summation	on current transform	ers	Magnetic field centering sleeves
Ø 35 mm	5SV8702-0KK		5SV8902-1KK
Ø 70 mm	5SV8703-0KK		5SV8903-1KK
Ø 105 mm	5SV8704-0KK		5SV8904-1KK
Ø 140 mm	5SV8705-0KK		5SV8905-1KK
Ø 210 mm	5SV8706-0KK		5SV8906-1KK
4 Molded c	ase circuit breakers	6 Trip element	6 Trip element
3VL17		3VL9400-1ST00	3VL9400-1UP00
3VL27			
3VL37			
3VL47			
3VA10		3VA9988-0BL30	3VA9908-0BB11
3VA11		3VA9988-0BL32	3VA9908-0BB20
3VA20		3VA9988-0BL33	3VA9908-0BB24
3VA21			3VA9908-0BB25
3VA22			
3VA12		3VA9988-0BL30	3VA9908-0BB11
3VA23		3VA9988-0BL32	3VA9908-0BB20

3VA9988-0BL33

System overview, page 11/4

3VA9908-0BB24

5SV8 modular RCCB device

Type B

MRCD digital

Mounting width 2 MW

BEER	
00	
Minni	
-	
0.0.0	
Committee of	

Rated operational voltage U _e	Rated residual current $I_{\Delta n}$	Response time Δt	
230 V AC	0.03 1 A	0 10 s	5SV8101-4KK
24 V DC	0.03 1 A	0 10 s	5SV8111-4KK

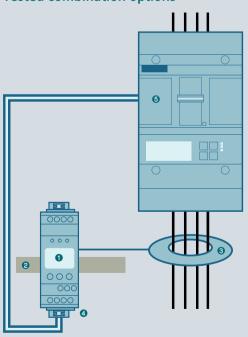
Further technical sp	Further technical specifications		5SV8111-4KK	
Standards				
Standards		EN 60947-2 (Annex M), IEC 60947-2 (A	nnex M)	
Supply				
Supply voltage U _s		230 V AC (70 300 V AC)	24 V DC (9.6 94 V DC)	
Frequency		50/60 Hz		
Power consumption		<6.5 VA	<6.5 VA	
Relay contacts				
Relay contacts		1× alarm, 1× tripping operation		
Rated voltage		250 V AC		
Rated current		5 A		
External summation curren	t transformer			
Internal diameter		35 210 mm (5SV8701-2KK, 5SV8701-2KP, 5SV8702	2-2KK, 5SV8702-2KP, 5SV8703-2KK, 5SV8704-2KK)	
Rated voltage	(Summation current transformers)	690 V		
Response characteristic	Acc. to IEC 60947-2 (M)	Туре В		
Rated frequency		0 2 kHz		
Response residual current	I _{Δn} 1 (AL1 alarm)	50 100% of $I_{\Delta n}$ 2 (factory setting: 50%	6)	
	I _{Δn} 2 (TP2 tripping)	30 mA 1 A (factory setting: 30 mA)		
Response delay	t _{on} 1 (alarm)	0 10 s (factory setting: 1 s)		
	t _{on} 2 (tripping)	0 10 s (factory setting: 0 s)		
Equipment				
Maximum cable length MRCD	0/converter	10 m (6 × 0.75 mm ²)		
Password		off / 0 999 (factory setting: 0)		
Safety				
Degree of protection	Components (IEC 60529)	IP30		
	Terminals (IEC 60529)	IP20		
EMC		IEC 60947-2 (M)		
Overvoltage category		III		
Pollution degree		3		
Mechanical data				
Width		36 mm (2 MW)		
Depth		64 mm		
Height		85 mm		
Weight		150 g		
Fixing		Standard mounting rail		
Enclosure material		Polycarbonate		
Electrical connection		Screw terminals		
Conductor cross-section	Rigid	0.2 4 mm ²		
	Flexible, with end sleeve	0.2 2.5 mm ² (AWG 24 12)		
Stripped length		8 9 mm		
Tightening torque		0.5 0.6 Nm		
Ambient conditions				
Operating temperature		−25 + 55 °C		

Accessories

Summation current tra	nsformers					
	Lowest measurable residual current I _{Δn min}	Rated current I _n	Maximum current 1) I _{max}	Internal diameter	Version	Article No.
	10 mA	≤80 A	500 A	35 mm	Standard	5SV8701-2KK
The same of the sa					With shield	5SV8701-2KP
		≤160 A	1000 A	60 mm	Standard	5SV8702-2KK
					With shield	5SV8702-2KP
	100 mA	≤330 A	2000 A	120 mm	Standard	5SV8703-2KK
	300 mA	≤630 A	3800 A	210 mm	Standard	5SV8704-2KK
Holders for standard mounting rails						
	Suitable for summation	Article No.				
	5SV8701-2KK, 5SV8701-2KP					5SV8900-2KK
	5SV8702-2KK, 5SV8702-2KP					5SV8900-3KK

¹⁾ Short-time starting current, up to 2 s

Tested combination options



5SV8101-4KK / 5SV8111-4KK (tested combinations)

Modular RCCB device	
5SV8101-4KK / 5SV8111-4KK	
2 Standard mounting rail	
EN 60715 – TH35 – 7,5 35 – 15	
Summation current transformer	s
Ø 35 mm	5SV8701-2KK / 5SV8701-2KP
Ø 60 mm	5SV8702-2KK / 5SV8702-2KP
Ø 120 mm	5SV8703-2KK
Ø 210 mm	5SV8704-2KK
Relay contacts	
DC: , 300	AC: max. 230 V, 5A

C:	300 200	7							
	100	-							
	50 40			$\overline{}$					
	30 20								
	10	0,1 0,2	0.5		2	5	10 2	90,180	

	[A] —	
6 Molded case circuit breakers	Trip element	
3VA1	3VA9988-0BL30	3VA9908-0BB11
3VA20	3VA9988-0BL32	3VA9908-0BB24
3VA21	3VA9988-0BL33	3VA9908-0BB25
3VA22		
3VA23	3VA9988-0BL30	3VA9908-0BB11
3VA24	3VA9988-0BL32	3VA9908-0BB25
	3VA9988-0BL33	

5TT3 undervoltage relays

Without response delay

For the monitoring of
1, 2 or 3 phases against N

Contacts
1 CO
2 CO
2 CO
Mounting width
1 MW
2 MW
2 MW

				, , ,	, , , ,	. , , , ,
Rated operational voltage U _e	Rated operational current l _e	Switching thresholds	Hysteresis			
Not adjustable						
230 V AC	4 A	0.7 and $0.9 \times U_c$	_	5TT3400	5TT3402	5TT3404
		0.85 and $0.95 \times U_c$	-	5TT3401	-	5TT3405
Adjustable						
230 V AC	4 A	0.7 0.95 × U _c	5%	-	-	5TT3406
		0.9 0.95 × U _c	-	-	5TT3403	-

		5TT3400		
		5TT3401		
		5TT3402	5TT3404	
Further technical specifications	S	5TT3403	5TT3405	5TT3406
Standards				
Standards		IEC 60255, DIN VDE	0435-110, DIN VDE 0	435-303
Supply				
Rated control circuit voltage U _c		230 / 400 V AC		
Operating range (overload capability)		$1.1 \times U_c$		
Rated frequency		50/60 Hz		
Contacts				
μ contact	AC-11	4 A	4 A	4 A
Response values	ON-switching	$0.9 / 0.95 \times U_c$	$0.9 / 0.95 \times U_c$	4% hysteresis
	OFF-switching	$0.7 / 0.85 \times U_{c}$	$0.7 / 0.85 \times U_{c}$	$0.7 \dots 0.95 \times U_c$
Minimum contact load		10 V / 100 mA	10 V / 100 mA	10 V / 100 mA
Safety				
Rated insulation voltage U _i	Between coil/contact	4 kV	4 kV	4 kV
Electrical isolation, creepage distances and clearances	Actuator/contact	3 mm	5.5 mm	5.5 mm
Rated impulse withstand voltage U _{imp}	Actuator/contact	>2.5 kV	>4 kV	>4 kV
unctions				
hase asymmetry	Setting accuracy	-	Approx. 5 10%	Approx. 5 10%
	Repeat accuracy	-	1	1
hase failure detection	At L1 or L2 or L3	100 ms	100 ms	100 ms
unctions	Monitoring of 1/2 phases against N	Yes	-	_
	Monitoring of 3 phases against N	Yes	Yes	Yes
	Asymmetry (failure) detection	-	Yes	Yes
	Reverse (failure) detection	-	Yes	Yes
	Phase failure detection	Yes	Yes	Yes
	N-conductor monitoring	-	Yes	Yes
Connection				
erminals	± screw (Pozidriv)	PZ 1		
Conductor cross-sections	Rigid	Max. 2 x 2.5 mm ²		
	Flexible, with end sleeve	Max. 1 x 0.5 mm ²		
Ambient conditions				
Permissible ambient temperature		−20 +60 °C		
Resistance to climate	Acc. to EN 60068-1	20/60/4		

5TT3 undervoltage relays

With response delay

For the monitoring of
1, 2 or 3 phases against N

Contacts
1 CO 2 CO

Mounting width
1 MW 1 MW

Rated operational voltage U _e	Rated operational current l _e	Switching thresholds	Hysteresis	Standard	With TEST pushbutton
Not adjustable					
230 V AC	4 A	$0.85 \times U_c$	5%	5TT3414	5TT3415

Further technical specificatio	ns	5TT3414	5TT3415
Supply			
Rated control circuit voltage U _c		230 / 400 V AC	
Operating range (overload capability)		1.15 × U _c	
Rated frequency		50/60 Hz	
Contacts			
Contacts	AC-15	1 CO	2 CO
Response values	ON-switching	5% hysteresis	5% hysteresis
	OFF-switching	$0.85 \times U_c$	$0.85 \times U_c$
Response delay		0.5 s	0.5 s
Return transfer delay		60 s	60 s
Minimum contact load		10 V / 100 mA	10 V / 100 mA
Electrical service life in switching cycles	AC-15 (1 A, 230 V AC)	1 × 10 ⁵	1 × 10 ⁵
Safety			
Rated insulation voltage U _i	Between coil/contact	-	
Rated impulse withstand voltage	Acc. to IEC 60664-1	6 kV	
Pollution degree		2	
Functions			
Phase failure detection	At L1 or L2 or L3	500 ms	
Functions	Monitoring of 1 or 2 phases against N	Yes	
	Monitoring of 3 phases against N	Yes	
	Phase failure detection	Yes	
Connection			
Terminals	– screw (slot)	3.5 mm	
Conductor cross-sections	Rigid	1 × 4 mm ²	
	Flexible, with end sleeve	1 × 2.5 mm ²	
Ambient conditions			
Permissible ambient temperature		−25 +60 °C	
Resistance to climate	Acc. to EN 60068-1	20/060/04	

5TT3 short-time voltage relay

Without response delay

For the monitoring of 1, 2 or 3 phases against N

Contacts 2 CO
Mounting width 2 MW



Rated operational voltage U _e	Rated operational current l _e	Switching thresholds	
Not adjustable			
230 V AC	4 A	0.8 0.85 × U _c	5TT3407

Further technical specifications

Standards			
Standards			IEC 60255, DIN VDE 0435-303
Supply			
Rated control circuit voltage U _c			230/400 V AC
Operating range (overload capability)			$1.1 \times U_c$
Rated frequency			50/60 Hz
Rated operational power P _s	AC operation:	230 V and p.f. = 1	2000 VA
		230 V and p.f. = 0.4	1250 VA
	DC operation:	$U_e = 24 \text{ V} \text{ and } I_e = 6 \text{ A}$	Max. 100 W
		$U_e = 60 \text{ V} \text{ and } I_e = 1 \text{ A}$	Max. 100 W
		$U_e = 110 \text{ V} \text{ and } I_e = 0.6 \text{ A}$	Max. 100 W
		$U_e = 220 \text{ V} \text{ and } I_e = 0.5 \text{ A}$	Max. 100 W
Back-up fuse	Terminals L1/L2/	L3	2 A
Contacts			
μ contact	AC-11		3 A
Response values	ON-switching		$0.85 \times U_c$
	OFF-switching		$0.8 \times U_c$
Automatic reclosing delay (return transfer delay)			0.2 2 s
Minimum contact load			10 V / 100 mA
Safety			
Rated insulation voltage U _i	Between coil/coi	ntact	4 kV
Electrical isolation, creepage distances and clearances	Actuator/contac	t	4 mm
Rated impulse withstand voltage U _{imp}	Actuator/contac	t	>4 kV
Functions			
Phase failure detection	At L1 or L2 or L3		≥20 ms
Phase asymmetry	Setting accuracy		Approx. 5 10%
	Repeat accuracy		1
Functions	Monitoring of 1	or 2 phases against N	Yes
	Monitoring of 3	phases against N	Yes
	Phase failure de	tection	Yes
	N-conductor mo	nitoring	Yes
Connection			
Terminals	± screw (Pozidri	<i>v</i>)	PZ 1
Conductor cross-sections	Rigid		Max. 2 x 2.5 mm ²
	Flexible, with er	d sleeve	Max. 1 x 0.5 mm ²
Ambient conditions			
Permissible ambient temperature			−20 +60 °C
Humidity class	Acc. to IEC 6006	8-2-30	F

5TT3 undervoltage and overvoltage relays

With adjustable response delay

For the monitoring of 3 phases against N

Contacts 2 CO
Mounting width 2 MW



Rated operational voltage U _e	Rated operational current l _e	Switching thresholds	Hysteresis	
Adjustable				
230 V AC	4 A	0.7 and $1.1 \times U_c$ 0.9 and $1.3 \times U_c$	4% 4%	5TT3408

Further technical specifications

<u> </u>			
Standards			
Standards			IEC 60255, DIN VDE 0435-303
Supply			
Rated control circuit voltage U _c			230/400 V AC
Operating range (overload capability)			1.35 × U _c
Rated frequency	50/60 Hz		
Back-up fuse	Terminals L1/L2	/L3	2 A
Contacts			
μ contact	AC-11		1 A
Response values	Overvoltage:	ON-switching	4% hysteresis
		OFF-switching	0.9 1.3 × U _c
	Undervoltage:	ON-switching	4% hysteresis
		OFF-switching	0.7 1.1 × voltage _c
On/off-delay (response delay)			0.1 20 s
Automatic reclosing delay (return transfer delay)		-
Minimum contact load			10 V / 100 mA
Safety			
Rated insulation voltage U _i	Between coil/contact		4 kV
Electrical isolation, creepage distances and	Contact/contact		4 mm
clearances	Actuator/contact		4 mm
Rated impulse withstand voltage U _{imp}	Actuator/contact		>4 kV
Functions			
Phase failure detection	At L1 or L2 or L3		100 ms
Phase asymmetry	Setting accuracy	/	Approx. 5 10%
	Repeat accuracy	1	1
Functions	Monitoring of 1	or 2 phases against N	-
	Monitoring of 3	phases against N	Yes
	Asymmetry dete	ection	Yes
	Reverse voltage	detection	Yes
	Phase failure de	tection	Yes
	N-conductor monitoring		Yes
Connection			
Terminals	± screw (Pozidriv)		PZ 1
Conductor cross-sections	Rigid		Max. 2 x 2.5 mm ²
	Flexible, with er	nd sleeve	Max. 1 x 0.5 mm ²
Ambient conditions			
Permissible ambient temperature			−20 +60 °C
Humidity class	Acc. to IEC 6006	58-2-30	F

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5TT6 current relays

For single-phase loads up to 230 V AC

				_	ge and load vol		alatad		
			Mounting width	not isolated	1 MW	galvanically is	2 MW	2 MW	
			mountaing water	60	00	6666	6666	6666	
					PP	***	2 mg	2 mg	
Rated operational voltage U _e	Rated operational current I _e	Contacts	Rated control current I _c	Monitoring Undercurrent	Overcurrent	Monitoring Undercurrent	Overcurr		
230 V AC	5 A	1 CO	1 10 A	5TT6111	5TT6112	-		undercurr _	ent
230 V / (C	<i>5</i>	2 CO	0.1 - 1 A, 0.5 5 A, 1 10 A, 1.5 15 A	-	-	5TT6113	5TT6114	5TT6115	
Further ted	chnical spec	ifications	;			5TT6111 5TT6112		5TT6113 5TT6114 5TT6115	
Standards									
Standards						IEC 60255		IEC 60255 DIN VDE 0435-303	
Supply									
Rated control c	urrent I _c					1 10 A		0.1 1 A, 0.5 5 1 10 A, 1.5 15	
Rated control c	ircuit voltage U _c					230 V AC		230 V AC	
Primary operati	ing range					0.9 1.1 × U _c		0.9 1.1 × U _c	
Overload capak	oility		Continuous			15 A		20 A	
			ent temperature n		20 A		-		
			Independent o	of measuring rang	e, max. 3 s	_		30 A	
Rated frequence	C.Y.					50/60 Hz		50/60 Hz	
Contacts	IE)		NO contacts			3 A		5 A	
μ contact (AC-1	15)		NC contacts			1 A		1 A	
Response value	as a		ON-switching			Infinitely variable	ρ	Infinitely variable	
			OFF-switching			Permanent, 4% I		Permanent, 4% hys	teresis
Switching delay	y t _v					0.1 20 s, continuously adj	-	0.1 20 s, continuously adjus	
Response time			Non-adjustabl	e		rated operationa	al power of	See Siemens Service Support Portal, sea "Article No.", e.g. 5	rch term
Minimum conta	act load					10 V / 100 mA		10 V / 100 mA	
Safety									
Rated insulatio	n voltage U _i		Between coil/c	ontact		2.5 kV			
Electrical isolat clearances	ion, creepage dist	ances and				3 mm			
	withstand voltage	U_{imp}	Actuator/conta	nct		>4 kV			
Connection									
Terminals			± screw (Pozid	riv)		PZ 1			
Conductor cros	s-sections		Rigid Flexible, with	end sleeve		Max. 2 x 2.5 mm Max. 1 x 0.5 mm			
Ambient cond	itions								

Acc. to EN 60068-1

−20 ... +60 °C 20/60/4

Permissible ambient temperature

Resistance to climate

5TT3 fuse monitors

For all low-voltage fuse systems

Mounting width 2 MW



Rated operational voltage U _e	Rated operational current l _e	Rated control circuit voltage U _c	
Adjustable			
250 V AC	4 A	380 415 V AC	5TT3170

Further technical specifications

Standards		
Standards		IEC 60255, DIN VDE 0435-110
Supply		
Rated operational voltage U _e		250 V AC
Rated operational current I _e	AC-1	4 A
Rated control circuit voltage U _c	3 AC	380 415 V
Primary operating range		0.8 1.1 × U _c
Rated frequency		50 400 Hz
Contacts		
Internal resistance of measuring paths		>1000 Ω/V
Max. permissible rear feed		90%
Response/release time		<50 ms
Electrical endurance AC-11	In switching cycles at 1 A	1.5 × 10 ⁵
Safety		
Rated impulse withstand voltage U _{imp}	Input/output	>4 kV
Application		
Area of application		Asymmetric, systems afflicted with harmonics, regenerative motors
Message		Also for disconnected loads
Connection		
Terminals	± screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2 x 2.5 mm ²
	Flexible, with end sleeve	Max. 1 x 0.5 mm ²
Ambient conditions		
Permissible ambient temperature		−20 +45 °C
Resistance to climate	Acc. to EN 60068-1	20/45/4

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5TT3 phase monitors

For monitoring of voltages in a three-phase system

Mounting width 1 MW



Rated operational voltage U _e	Rated operational current l _e	Contacts	Rated control circuit voltage U _c	With 3 green LEDs for 3 phases
250 V AC	4 A	1 CO	230/400 V	5TT3421

Further technical specifications

Standards		
Standards		IEC 60255, DIN VDE 0435
Supply		
Rated operational voltage U _e		250 V AC
Rated operational current I _e		4 A
Rated control circuit voltage U _c		230/400 V AC
Primary operating range		0.8 1.1 × U _c
Rated frequency		50/60 Hz
Rated power dissipation P _v	Electronics	9 VA
	Contacts	0.2 VA
Contacts		
μ contact	AC-11	3 A
Minimum contact load		10 V / 100 mA
Safety		
Rated insulation voltage U _i	Between coil/contact	4 kV
Electrical isolation, creepage distances and clearances	Actuator/contact	4 mm
Rated impulse withstand voltage U _{imp}	Actuator/contact	>2.5 kV
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Safety class	Acc. to EN 61140/VDE 0140-1	II
Connection		
Terminals	± screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2 x 2.5 mm ²
	Flexible, with end sleeve	-
Ambient conditions		
Permissible ambient temperature		−20 +60 °C
Resistance to climate	Acc. to EN 60068-1	20/60/4

5TT3 phase sequence monitors

For monitoring of phase sequence in a three-phase system

Phase sequence monitors
Mounting width 1 MW



Rated operational voltage U _e	Rated operational current l _e	Contacts	Rated control circuit voltage U _c	With one green LED, which lights up for right-rotating field
250 V AC	4 A	1 CO	400 V	5TT3423

Further technical specifications

Standards		
Standards		IEC 60255, DIN VDE 0435
Supply		
Rated operational voltage U _e		250 V AC
Rated operational current I _e		4 A
Rated control circuit voltage U _c		400 V AC
Primary operating range		0.8 1.1 × U _c
Rated frequency		50/60 Hz
Rated power dissipation P _v	Electronics	9 VA
	Contacts	0.2 VA
Contacts		
μ contact	AC-11	3 A
Minimum contact load		10 V / 100 mA
Safety		
Rated insulation voltage U _i	Between coil/contact	4 kV
Electrical isolation, creepage distances and clearances	Actuator/contact	4 mm
Rated impulse withstand voltage U _{imp}	Actuator/contact	>2.5 kV
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Safety class	Acc. to EN 61140/VDE 0140-1	II
Connection		
Terminals	± screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2 x 2.5 mm ²
	Flexible, with end sleeve	-
Ambient conditions		
Permissible ambient temperature		−20 +60 °C
Resistance to climate	Acc. to EN 60068-1	20/60/4

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5TT3 insulation monitors for industrial applications

Are used for protection of persons and against fire in non-grounded systems (IT systems)



Measurement voltage range U _{meas}	Measuring range	Contacts	Rated control circuit voltage U _c	
0 500 V AC	5 100 kΩ	2 CO	230 V AC	5TT3470
12 280 V DC	5 200 kΩ	2 CO	-	5TT3471

Further technical specification	ons	5TT3470	5TT3471
Supply			
Rated operational voltage U _e		230 V AC	12 280 V DC
Rated operational current I _s	Thermal current I _{th}	4 A	4 A
	DC-13 at 24 V DC	_	2 A
	DC-13 at 250 V DC	_	0.2 A
	AC-15	-	3 A
	AC-15 NO contacts	5 A	-
	AC-15 NC contacts	2 A	-
Supply voltage U _c	For AC supply	220 240 V AC	-
Primary operating range	For AC supply	0.8 1.1 × U _c	-
Frequency range for U _c		45 400 Hz	-
Rated power dissipation P _v	For AC supply	Approx. 2 VA	-
	For DC supply	_	Approx. 1 W
Contacts			
μ contact		2 W	2 W
Switching hysteresis	At R _{meas} 50 kΩ	15%	10 15%
Measuring circuit			
Measuring circuit		For three-phase and AC systems	For direct voltage systems
Measurement voltage range U _{meas}		0 500 V AC	12 280 V DC
Measurement voltage U _{meas}	Internal	Approx. 15 V DC	-
Primary operating range		0 1.1 × U _{meas}	0.9 1.1 × U _{meas}
Frequency range for U _{meas}		10 10000 Hz	-
Alarm values	Measuring shunt R _{AL}	5 100 kΩ	5 200 kΩ
Setting of alarm value	On absolute scale	Infinitely variable	Infinitely variable
Alternating current internal resistance	Internal testing resistance	>250 kΩ	-
Direct current internal resistance	Internal testing resistance	>250 kΩ	-
	L+ and L- to PE	_	75 kΩ each
Max. measurement current I _{meas}	Short circuit	<0.1 mA	0.2 4 mA, depending on the voltage
Direct interference voltage	Max. permissible	500 V DC	-
Response delay	∞ to 0.9 × R _{meas}	<1.3 s	0.8 s
at R_{AL} 50 k Ω and 1 μF	R_{meas} from ∞ to 0 Ω	<0.7 s	0.4 s
Safety			
Rated impulse withstand voltage U _{imp}	Terminals A1 to A2	<4 kV	<4 kV
	Terminals L to PE	<4 kV	<4 kV
	Terminals A1, A2 to L, PE	<4 kV	<3 kV
	Terminals against contacts	<6 kV	<6 kV
Degree of protection	Terminals (according to EN 60529)	IP20	IP20
	Enclosure (according to EN 60529)	IP40	IP40
Connection			
Terminals	± screw (Pozidriv)	PZ 2	
Conductor cross-sections	Rigid	Max. 2 x 2.5 mm ²	
	Flexible, with end sleeve	Min. 1 × 0.50 mm ²	
Ambient conditions			
Permissible ambient temperature		−20 +60 °C	
Resistance to climate	Acc. to EN 60068-1	20/060/04	

5TT5 EMERGENCY STOP modules

Efficient personal and machine protection in small units



Rated operational voltage U _e	Rated operational current l _e	Rated control circuit voltage U _c	
400 V AC	5 A	230 V AC	5TT5200

Further technical specifications

Standards		
Standards		ISO 13849-1: 2015; EN 62061: 2005 + AC: 2010 + A1: 2013 + A2: 2015; ISO 13850: 2015; EN 60204-1: 2006 + A1: 2009 + AC: 2010 (in extracts); EN 60947-5: 2004 + A1: 2009; EN 50178: 1997; EN 61508 Parts 1-7: 2010; EN 50156-1: 2005 (in extracts)
Certification		German Technical Inspectorate Rheinland
Supply		
Primary operating range		0.8 1.1 × U _c
Rated frequency f _n		50 Hz
Rated power dissipation P _v	Coil/drive	3.5 VA
	Contact per pole	0.8 VA
Control voltage	Terminal Y1	24 V AC/DC
Control current	Terminal Y1	45 mA
Contacts		
Contacts	NO contacts AC-15	3 A
	NC contacts AC-15	2 A
	NO contact/NC contact AC-1	5 A
Contact gap		>1 mm
Electrical service life	AC-15 (2 A, 230 V AC)	10 ⁵ operating cycles
Reliable switching frequency		600 operating cycles/h
Recovery time		500 ms
Safety		
Rated impulse withstand voltage U _{imp}	Actuator/contact	>4 kV
Electrical isolation, creepage distances and clearances	Actuator/contact	3 mm
Vibration resistance	Amplitude acc. to EN 60068-2-610 (up to 55 Hz)	0.35 mm
Connection		
Terminals	± screw (Pozidriv)	PZ 1
Conductor cross-sections of main current paths	Rigid	Max. 2 x 2.5 mm ²
	Flexible, with end sleeve	Min. 1 × 0.50 mm ²
Ambient conditions		
Permissible ambient temperature		0 +50 °C
Resistance to climate	Acc. to EN 60068-1	0/55/04

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5TT3 level relays

For level monitoring and control

Mounting width 2 MW



Rated operational voltage U _e	Rated operational current l _e	Rated control circuit voltage U _c	
250 V AC	5 A	230 V AC	5TT3435

Further technical specifications

Standards		
Standards		IEC 60255; DIN VDE 0435-110
Supply		
Rated operational voltage U _e		250 V AC
Rated operational current I _e		5 A
Rated control circuit voltage U _c		230 V AC
Primary operating range		0.8 1.1 × U _c
Rated frequency f _n		50/60 Hz
Measuring circuit		
Setting range of the liquid level		2 450 kΩ
Switching point hysteresis of set value	At 450 kΩ	3%
	At 2 kΩ	6%
Electrode voltage		Max. approx. 10 V AC
Electrode current		Max. approx. 1.5 mA AC
Response delay	Adjustable	0.2 20 s
OFF-delay	Adjustable	0.2 20 s
Test voltage	Input/auxiliary circuit	4 kV
	Input/output circuit	4 kV
	Auxiliary/output circuit	4 kV
Voltage temperature influence	From set value	<2%
Max. cable length to the electrodes at 100 μF/km	Set value 450 kΩ	50 m
	Set value 100 kΩ	200 m
	Set value 35 kΩ	500 m
	Set value 10 kΩ	1500 m
	Set value $5 \text{ k}\Omega$	3000 m
Connection		
Terminals	± screw (Pozidriv)	PZ 2
Conductor cross-sections	Rigid, max.	Max. 2 x 2.5 mm ²
	Flexible, with end sleeve	Min. 1 × 0.50 mm ²
Ambient conditions		
Permissible ambient temperature		−20 +60 °C
Resistance to climate	Acc. to EN 60068-1	20/60/4

Accessories

Immersion electrodes



- Made of stainless steel, with PG13 sealing capSuitable for pure water in open containers

•	·	
Temperature range	Connection	Article No.
0 60 °C	Terminal connection	5TG8223

5TT3 line circuit relays

To interrupt circuits where there are no active loads



Rated operational voltage U _e	Rated operational current l _e	Contacts	Rated control circuit voltage U _c	
250 V AC	16 A	1 NC contact	230 V AC	5TT3171

Further technical specifications

Standards		
Standards		IEC 60255; DIN VDE 0435-110
Supply		
Rated operational voltage U _e		250 V AC
Rated operational current I _e	AC-1	16 A
Rated control circuit voltage U _c		230 V AC
Primary operating range		0.85 1.15 × U _c
Rated frequency		50/60 Hz
Rated power dissipation P _v	Electronics	5 VA
	Contacts	2.6 VA
Contacts		
Response value	Adjustable	2 20 VA
Release value	% of the response value	70%
Electrical service life	In switching cycles at 3 A (AC-11)	5 × 10⁵
Safety		
Rated impulse withstand voltage U _{imp}	Input/output	>4 V
Degree of protection	Acc. to IEC/EN 60529	IP20, with connected conductors
Safety class	Acc. to EN 61140/VDE 0140-1	II .
Monitoring voltage		3 V
Connection		
Terminals	± screw (Pozidriv)	PZ 1
Conductor cross-sections	Rigid	Max. 2 x 2.5 mm ²
	Flexible, with end sleeve	Min. 1 × 0.50 mm ²
Ambient conditions		
Permissible ambient temperature		−20 +45 °C
Humidity class	Acc. to IEC 60068-2-30	F

Accessories

Base load resistors for electronic devices					
	With 15 cm connection wires, end sleeves and shrink sleeving				
		Article No.			
		5TG8222			

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7LQ2 dimmer switches

For lighting system monitoring and control

Mounting width 1 MW



Rated operational voltage U _e	Rated operational current l _e	Contacts	Rated control circuit voltage U _c	
230 V AC	16 A	1 NO contact	250 V AC	7LQ2300

Further technical specifications

Standards		
Standards		EN 60669-1
Supply		
Rated operational voltage U _e		230 V AC
Rated frequency f _n		50/60 Hz
Safety		
Degree of protection		IP30
Contacts		
Incandescent lamp/halogen lamp load		2000 W
Energy-saving lamp load		1000 W
Fluorescent lamp load	Series corrected	2000 W
	Parallel corrected (at max. 70 μF)	1000 W
LV halogen lamp load ECG		2000 W
Luminosity setting		1 100 000 Lux
Measuring circuit		
On/off-delay		Approx. 90 s
Connection		
Terminals	± screw (Pozidriv)	PZ1
Conductor cross-sections	Rigid, max.	Max. 2 × 1.5 mm ²
Mechanical data		
Width		17.5 mm (1 MW)
Fixing		Standard mounting rail
Ambient conditions		
Permissible ambient temperature		−20 +55 °C

Spare part

Light sensor



- Included in the 7LQ2300 packageIP65 Degree of protection

Temperature range	Mounting	Article No.
−20 +70 °C	Surface mounting	7LQ2920

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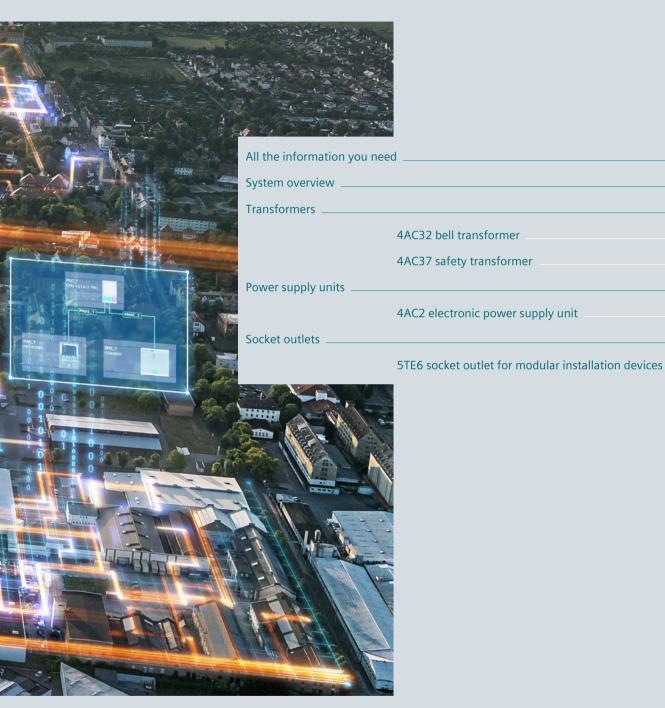
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Transformers, Power Supply Units and Socket Outlets



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(i) All the important things at a glance

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System overview

Transformers





Bell transformers

Safety transformers

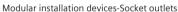
Power supply units



Electronic power supply units

Socket outlets





Accessories



Hinged lid

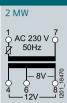
4AC32 bell transformer

U_e 230 V AC



Mounting width 2 MW





Rated secondary current I _{sec} AC at rated secondary voltage U _{sec} AC		AC		Rated operational pow	er P _s	
4 V	8 V	12 V	24 V	8 VA	8 VA	
_	1.0 A	-	-	4AC3208-0	-	
		0.6 A	-	-	4AC3208-1	
2.0 A	2.0 A	1.5 A	-	-	-	
_	2.0 A	1.3 A	0.6 A	_	-	

Further technical specifications		4AC3208-0	4AC3208-1	4AC3214-0	4AC3218-0
Standards					
Standards	EN 61558-1, EN	61558-2-8			
Supply					
Rated operational voltage U _e		230 V AC	230 V AC	230 V AC	230 V AC
Operating range at 50 Hz		1.04 × U _e	$1.04 \times U_e$	$1.04 \times U_e$	1.04 × U _e
Rated frequency		50 Hz	50 Hz	50 Hz	50 Hz
Rated power dissipation P _V	In no-load operation	1.2 W	1.2 W	1.3 W	1.3 W
	At a rated voltage of 4 V	-	-	-	5.5 W
	At a rated voltage of 8 V	5.7 W	5.7 W	10.5 W	8.1 W
	At a rated voltage of 12 V	_	3.8 W	7.4 W	8.4 W
	At a rated voltage of 24 V	_	_	4.2 W	-
Safety					
Safe separation	Creepage distances and clearances	>6 mm			
Insulation class		Е			
Test voltage (50 Hz, 1 s)	Primary against secondary winding	4 kV			
Connection					
Conductor cross-section	Rigid	1× 4 mm ² or 2× 2.5 mm ²			
	Flexible, with end sleeve	1× 2.5 mm ² or 2× 1.5 mm ²			
Environmental conditions					
Permissible ambient temperature		40 °C	35 °C	40 °C	40 °C
Permissible humidity		91%	91%	91%	91%
Degree of protection	Acc. to EN 60629	IP20	IP20	IP20	IP20
Safety class	Acc. to EN 61140 (VDE 0140-1)	II	II	II	II



4AC37 safety transformer

U_e 230 V AC



Rated secondary current I_{sec} AC at rated secondary voltage U_{sec} AC					Rated operational power P _s		
8 V	12 V	16 V	24 V	32 V	16 VA	24 VA	
2.0 A	-	-	-	-	4AC3716-0	-	
	2.0 A	-	_	-	-	4AC3724-0	
-	3.3 A	2.5 A	1.6 A	1.2 A	-	-	
		-	1.6 A	-	-	-	
	5.2 A	-	2.6 A	-	-	-	

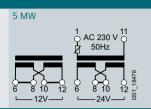
Further technical specif	4AC3716-0	4AC3724-0	4AC3740-0	4AC3740-1	4AC3763-0	
Standards						
Standards	EN 61558-1, EN 61558-2-6					
Supply						
Rated operational voltage U _e	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC	
Operating range at 50 Hz	$1.04 \times U_e$	$1.04 \times U_e$	$1.04 \times U_e$	$1.04 \times U_e$	$1.04 \times U_e$	
Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	
Rated power dissipation P _V	In no-load operation	1.1 W	1.1 W	3.5 W	3.9 W	3.9 W
	At a rated voltage of 8 V	6.8 W	4.6 W	_	-	-
	At a rated voltage of 12 V	_	7.6 W	7.1 W	7.5 W	13.2 W
	At a rated voltage of 16 V	_	-	-	7.7 W	-
	At a rated voltage of 24 V	_	-	7.7 W	8.1 W	13.5 W
	At a rated voltage of 32 V	_	_	_	7.6 W	-
Safety						
Safe separation	Creepage distances and clearances	>6 mm	>6 mm	>6 mm	>6 mm	>6 mm
Insulation class		E	E	F	F	F
Test voltage (50 Hz, 1 s)	Primary against secondary winding	4 kV	4 kV	4 kV	4 kV	4 kV
Connection						
Conductor cross-section	Rigid	1× 4 mm ² or 2	× 2.5 mm ²			
	Flexible, with end sleeve	1× 2.5 mm ² or	2× 1.5 mm ²			
Environmental conditions						
Permissible ambient temperature	25 ℃					
Permissible humidity	91%					
Degree of protection	IP20					
Safety class Acc. to EN 61140 (VDE 0140-1)		II				







5 MW			
			1 11
			1 AC 230 V 11
			₫ 50Hz
		$\neg \times \neg$	X ⊧
\$-\$ \$\$	\$ \$ - \$ \$	$\phi \rightarrow \phi \phi \rightarrow \phi$	\$ \$\frac{1}{2} \frac{1}{2} \frac{1}{
6 8 10 12	6 8 10 12	2 4 10 12	2 4 10 12 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	24v	└──16V <i>─</i> ─	



40 VA	40 VA	63 VA
-	-	-
-	-	-
4AC3740-1	-	-
-	4AC3740-0	-
-	-	4AC3763-0

System overview, page 12/4

4AC2 electronic power supply unit

SELV, short-circuit-proof



US+ US-

Rated operation	nal voltage U _e	Rated secondary voltage U _{sec}	Rated secondary current l _{sec}	Rated operational power P _s	
AC	DC	DC	DC		
85 265 V	85 300 V	24 ±5% V	0.35 A	8.4 W	4AC2402

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Further technical specifications

Standards		
Standards		EN 60068-2, EN 61558-1, EN 61000-4
Approvals		-
Supply		
Primary operating range	At 50/60 Hz	-
Rated frequency		50/60 Hz
Operating frequency range		-
Rated power dissipation P _v	In no-load operation	-
	At rated load	-
Safety		
Current limitation		Electronic overload protection
Residual ripple		<100 mV
Hum-free	Core molded	-
Safe separation, creepage distances and clearance	es	>5.5 mm
Insulation class		-
Test voltage (50 Hz, 1 min)	Primary against secondary winding	-
Insulation resistance		4 kV
Rated impulse withstand voltage / degree of pollution	Acc. to IEC 60664-1	6 kV/2
Static discharge	Acc. to IEC/EN 61000-4-2	8 kV
RF irradiation	Acc. to IEC/EN 61000-4-3	10 V/m
Transient overvoltage (burst)	Acc. to IEC/EN 61000-4-4	4 kV
Transient overvoltage (surge)	Acc. to IEC/EN 61000-4-5	
	Supply lines A1, A2	1 kV
	A1/A2 and ground	2 kV
RF, conducted disturbance	Acc. to IEC/EN 61000-4-6	10 V
Interference suppression to lower limit class	Acc. to EN 61000-6-3	Complied with
Connection		
Terminals	Screw (slotted-head)	M2.5
	± screw (Pozidriv)	-
Conductor cross-section	Rigid	0.5 2.5 mm ²
	Flexible, with end sleeve, min.	0.5 1.5 mm ²
Environmental conditions		
Permissible ambient temperature		−20 +60 °C
Resistance to climate	Acc. to IEC/EN 60068-1	20/045/04
Resistance to vibrations, frequency 10 55 Hz	Acc. to IEC/EN 60068-2-6	0.35 mm amplitude
Degree of protection	Acc. to EN 60529	IP20, with connected conductors
Safety class	Acc. to EN 61140	II

Siemens LV 10 · 10/2019 12/11

5TE6 socket outlet for modular installation devices

SCHUKO® socket outlet DIN VDE 0620-1

Version





Rated operational voltage U _e	Rated operational current l _e	Mounting width		
Without hinged lid 1)				
125 V AC	15 A	2.5 MW	-	-
230 V AC	16 A	2.5 MW	5TE6800	-
With hinged lid 2)				
230 V AC	16 A	2.5 MW	-	5TE6801

Accessories

5TE6 hinged lids for socket outlets								
(5)(5) (20)	Mounting width	Article No.	Article No.					
(3123) 122)	2.5 MW	5TE9120	-					

¹⁾ The lids can be retrofitted on all devices.

²⁾ In distribution boards with 55 mm mounting depth, the socket outlet can only be used without the hinged lid.

³⁾ In system components where equipment is still live even after the main switch has been disconnected, this must be indicated according to EN 50110-1 (VDE 0105-1) and IEC/EN 60204-1/VDE 0113-1.
Yellow socket outlets are used for these applications.

Further technical speci	fications	5TE6800 5TE6801 5TE6810	5TE6802	5TE6803	5TE6804
Standards					
Standards		VDE 0620-1	CEI 23-50	CEE 7 standard sheet V	UL 498
Approvals		VDE 0620-1	-	-	UL File No. E258598/ CSA C22.2 No. 182.3M
Connection					
Terminals	± screw (Pozidriv)	PZ1			
Terminal tightening torque	Max.	0.8 1 Nm			
Stripped length		10 mm			
Conductor cross-section	Rigid	1.5 6 mm ² (AWG 10 14)			
	Flexible, with end sleeve	0.5 4 mm ² (AWG	14)		
Environmental conditions					
Permissible ambient temperature		−10 +55 °C			
Degree of protection	Acc. to EN 60529	IP20, with connecte	d conductors		
Mounting position	Without lid	Any			
	With lid	Horizontally or verti	cally		

	Socket outlets CEE 7 standard sheet V	Socket outlets CEI 23-50	Socket outlets UL 498
Yellow RAL 1018 ³⁾	With grounding pin		
to to the			
-	-	-	5TE6804
5TE6810	5TE6803	-	-
-	-	5TE6802	-

Article No.	Article No.	Article No.	Article No.
-	5TE9120	_	5TE9120

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assembly contacts ensure fast mounting.



Busbar Systems



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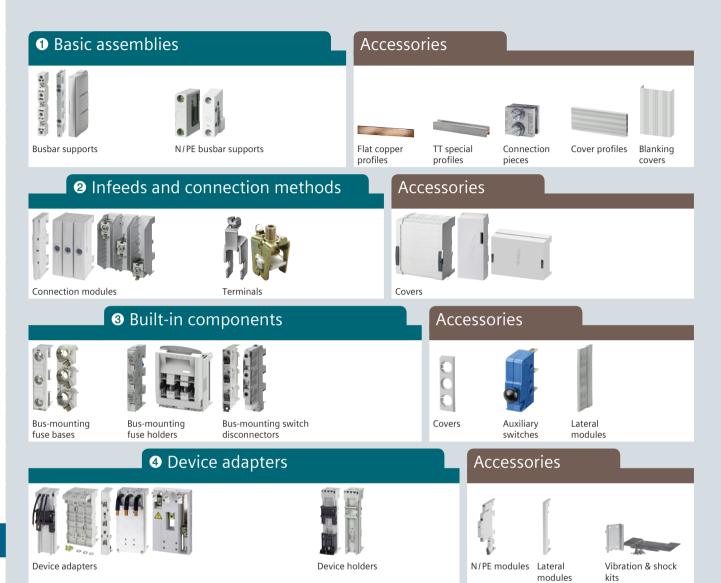
Technical overview of busbar systems



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System overview



Quick selection guide



		40 mm busbar system	60 mm compact busbar system	60 mm busbar system flat copper profile	60 mm busbar system TT profile
Busbars					
Busbar center-to-center	spacing	40 mm	60 mm	60 mm	60 mm
Flat copper profiles	5 mm	12 × 5 mm 15 × 5 mm	12 × 5 mm	12 × 5 mm 15 × 5 mm 20 × 5 mm 25 × 5 mm 30 × 5 mm	-
	10 mm	12 × 10 mm 15 × 10 mm	12 × 10 mm	20 × 10 mm 30 × 10 mm	-
TT special profile		-	-	-	2400 × 30 × 40 mm
Rated values					
Rated current I _e	IEC	200 360 A	200 360 A	200 900 A	1020 1600 A
	UL 508	-	300 A	630 A	1400 A
Rated voltage U _e	IEC	690 V AC	690 V AC	690 V AC	690 V AC
	UL 508	-	600 V AC	600 V AC	600 V AC
Standards					
IEC					
UL 508					
Connection modules a	nd terminal	s for			
Circular conductors	IEC	-	Cu 1.5 150 mm ²	Cu 1.5 300 mm ² Al 95 300 mm ²	Cu 16 300 mm ²
	UL 508	-	Cu AWG 2 MCM 300	Cu AWG 16 MCM 600 Al AWG 3	Cu AWG 4 MCM 600
Laminated copper		-	Cu lam. 15 20 × 5 10 mm	Cu lam. 3 × 20 × 110 × 32 × 1 mm	Cu lam. 2 × 40 × 10 mm
Cable lugs		-	-	Max. 240 mm ²	-
Built-in components for	or				
NEOZED bus-mounting	fuse bases	-		-	•
DIAZED bus-mounting f	use bases	_	_		•
Bus-mounting fuse hold cylindrical fuses 10×38		-	-	•	•
Class CC bus-mounting holders	fuse	-	-	•	•
Class J bus-mounting fu		-	-	•	
NEOZED bus-mounting disconnectors	switch			•	•
Device adapters for					
Universal application 3F	P / 5P	-	■ / ■	■/■	■/■
Molded case circuit brea	akers	-		•	•
Switch disconnectors		-	-		•
Fuse switch disconnecte	ors	-	-	•	•
SIRIUS 3RM1 motor star	ters	-	•	-	-
SIRIUS load feeders		-	-		•
3RM193 fuse module		-	•	-	-
5SY miniature circuit br	eakers	_	•	_	-
More information					
Catalog LV 10		See page 13/6	See page 13/7	See page 13/12	See page 13/14

Basic assemblies

For 40 mm 8US busbar system up to 400 A





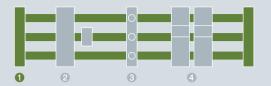
Flat copper profiles			Rated voltage U _e	Standard	Connection	Connection	
12×5 mm	15×5 mm	12×10 mm	15×10 mm	IEC		L1-L3	L1-L3 + N + PE/N
Interior mou	Interior mounting						
			•	690 V AC	IEC	8US1903-3AB00 ¹⁾	-
	-		-	690 V AC	IEC	-	8US1903-5AA00

¹⁾ One package contains 2 busbar supports including inlay parts for bar thickness 5 mm and lateral finger-safe covers.

Suitable acce	essories	3P	5P		
Flat copper profi	le				
	Surface	Length	Size	Article No.	Article No.
	Bare	2400 mm	12 × 5 mm	8WC5123	8WC5123
			15 × 5 mm	8WC5121	-
Cover profiles fo	r busbars				
	Material	Length	Size	Article No.	Article No.
	Plastic profile	1000 mm	12 × 5 mm	8US1922-2CA00	8US1922-2CA00
			15 × 5 mm	8US1922-2AA00	-

Basic assemblies

For 8US compact busbar system up to 360 A (3P) or 200 A (5P)





Flat copper	profiles	Rated vol	tage U _e	Short-circuit current rating SCCR		Standard	Dimensions	Min. order quantity	Connection
12×5 mm	12×10 mm	IEC	UL 508	3-pole	5-pole				L1-L3 + N + PE/N
Interior mou	unting								
		690 V AC	-	54 kA	32 kA	IEC	12×160×45 mm	10 units	8US1923-5CA02
		-	600 V AC	18 kA	-	UL 508	12×160×45 mm	10 units	8US1923-5CA02

¹⁾ Including end cover

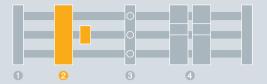
Suitable accessories

Flat copper prof	iles				
	Surface	Length	Size		Article No.
	Bare	2400 mm	12 × 5 mm		8WC5123
UL spacers for b	usbar supports				
	Dimensions		Minimum order quantity	Height	Article No.
	12×160×18 mn	n	10 units	18 mm	8US1922-1CA02
Stabilizing mod	ules				
	Only for 12 × 5For protecting		sbars against bending		
	Dimensions		Minimum order quantity		Article No.
	2×160×47 mm		10 units		8US1928-5CA02
Cover profiles					
	Dimensions		Minimum order quantity		Article No.
	700×160×63 m	ım	2 units		8US1922-2CB02
Holders for 8US	1922-2CB02 cove	er profile			
P	Dimensions		Minimum order quantity		Article No.
	5×156×55 mm		10 units		8US1922-2CA02

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2 Infeeds and connection methods

For 8US compact busbar system up to 360 A (3P) or 200 A (5P)



Conductor cross-section	Rated cu	rrent I _e	Rated volta	age U _e	Rated peak with- stand current	Standard	Minimum order quantity	Dimensions
	IEC	UL 508	IEC	UL 508	IEC I _{pk} Max.			
Spring terminal								
1.5 16 mm ²	63 A	48 A	690 V AC	600 V AC	10 kA	IEC, UL 508	6 units	20×160×91 mm
Connecting terminal								
6 50 mm ²	175 A	175 A	690 V AC	600 V AC	40.5 kA	IEC, UL 508	1 unit	54×160×115 mm
10 120 mm ²	250 A	200 A	690 V AC	600 V AC	35.4 kA	IEC, UL 508	1 unit	90×160×80 mm
	-	-	690 V AC	600 V AC	35.1 kA	IEC, UL 508	1 unit	30×160×80 mm
					35.4 kA	IEC, UL 508	1 unit	30×160×80 mm
35 150 mm ²	275 A	285 A	690 V AC	600 V AC	45.9 kA	IEC, UL 508	1 unit	90×160×115 mm

Built-in components

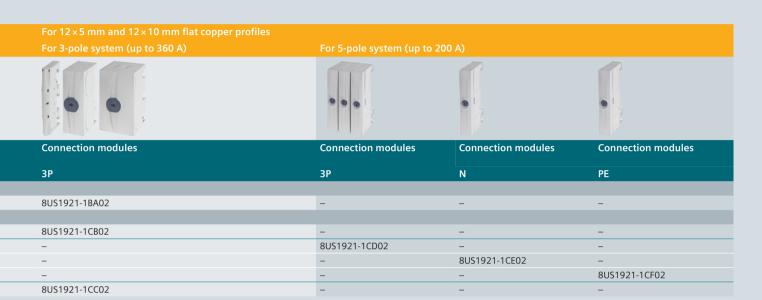
For 8US compact busbar systems up to 360 A (3P)



Number of poles Mounting width

Conductor cross-section	For flat copper profiles		Rated current I _e	Rated voltage U _e	Standard		
	12×5 mm	12×10 mm	IEC	IEC		order quantity	
Box terminals							
Rigid 1.5 10 mm ² Flexible 1.5 25 mm ²	•	•	63 A	400 V AC	IEC	6 units	

For NEOZED screw caps, NEOZED adapter sleeves and NEOZED fuse links, see page 7/1





System overview, page 13/4 Siemens LV 10 · 10/2019 13/9

Device adapters

For 8US compact busbar system up to 360 A (3P) or 200 A (5P)



For 3-pole system For universal applications



Rated cu	rrent I _e	Rated volta	ige U _e	Standard	For flat cor	per profiles	Dimensions	Min. order	
IEC	UL 508	IEC	UL 508		12×5 mm	12×10 mm		quantity	
16 A	-	690 V AC	-	IEC	-	-	160×22.5×122 mm	4 units	-
							200 × 22.5 × 122 mm	5 units	-
25 A	-	690 V AC	-	IEC	•	-	160×22.5×41.5 mm	5 units	-
							185×22.5×23.5 mm	5 units	-
							200×22.5×41.5 mm	5 units	-
32 A	-	690 V AC	-	IEC		_	160×18×73 mm	12 units	-
	25 A	690 V AC	600 V AC	IEC, UL 508			160×45×63 mm	4 units	8US1651-5DK02
63 A	-	690 V AC	-	IEC		_	160×18×73 mm	12 units	-
							160×18×82 mm	12 units	-
	65 A	690 V AC	600 V AC	IEC, UL 508		•	160×54×63 mm	4 units	8US1661-5FK02
144 A	-	690 V AC	-	IEC	•	-	160×77×35 mm	1 unit	-

Suitable acces	ssories					
N modules						
6	Rated voltage U _e	Connecting terminal	Dimensions	Minimum order quantity	Article No.	
(690 V AC	1.5 16 mm²	9×160×114 mm	12 units	-	
PE modules						
6	Rated voltage U _e	Connecting terminal	Dimensions	Minimum order quantity	Article No.	
4	690 V AC	1.5 16 mm²	9×160×114 mm	12 units	-	
Support modules						
1	Dimensions	Minimum order quantity			Article No.	
	18×160×54 mm	6 units			8US1620-5AK02	
Lateral modules						
ſ	Dimensions	Minimum order quantity			Article No.	
Į.	9×160×47	12 units			8US1998-2BH02	
Set of module cor	nectors					
A A A	Purpose	Package			Article No.	
8645 35 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	For connecting adapters	1 pack = 100 units			-	

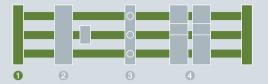
For 2 polo system					
For 3-pole system For 3VA10/11 molded case circuit breakers			For 3RM193 fuse i	nodule	For 5SY miniature circuit breakers
			100 100 100 100 100	[0] [0] [0]	
With latching function	Adapters, 1-pole	With fuse module and DIN mounting rail		With DIN mounting rail	Adapters, 1-pole
-	-	8US1615-5CK10	_	-	-
-	-	8US1615-5CK10 8US1215-5CS10	-	-	-
- - -				- -	- -
- - -	-		_	-	- - -
- - - -	-		- 8US1616-0AK02	-	- - - - -
- - - -	- - -		- 8US1616-0AK02 -	- - 8US1716-0RK00	- - - - -
- - - - -	- - -		- 8US1616-0AK02 - 8US1216-0AS00	- - 8US1716-0RK00	- - - - - -
- - - - - -	- - - - 8US1621-2NJ02		- 8US1616-0AK02 - 8US1216-0AS00	- 8US1716-0RK00 - -	- - - - - -
- - - - - - -	- - - - 8US1621-2NJ02		- 8US1616-0AK02 - 8US1216-0AS00 -	- 8US1716-0RK00 - -	- - - - - - - - - 8US1624-2FK02
- - - - - -	- - - - 8US1621-2NJ02		- 8US1616-0AK02 - 8US1216-0AS00 - -	- 8US1716-0RK00 - -	- - - - - - - - 8US1624-2FK02

| Article No. |
|---------------|---------------|---------------|---------------|---------------|---------------|
| - | 8US1600-0RE02 | 8US1600-0RE02 | 8US1600-0RE02 | 8US1600-0RE02 | 8US1600-0RE02 |
| | | | | | |
| Article No. |
| - | 8US1600-0RF02 | 8US1600-0RF02 | 8US1600-0RF02 | 8US1600-0RF02 | 8US1600-0RF02 |
| | | | | | |
| Article No. |
| 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 | 8US1620-5AK02 |
| | | | | | |
| Article No. |
| 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 | 8US1998-2BH02 |
| | | | | | |
| Article No. |
| - | 8US1998-1AA02 | 8US1998-1AA02 | 8US1998-1AA02 | 8US1998-1AA02 | 8US1998-1AA02 |

System overview, page 13/4

Basic assemblies

Up to 630 A



Flat copper	profiles						Standard
12×5 mm	15×5 mm	20×5 mm	25×5 mm	30×5 mm	20×10 mm	30×10 mm	
Interior mou	ınting						
	-						IEC 61439-1
-	-		-	-			IEC 61439-1, UL 508 ¹⁾
							IEC 61439-1
	-		-				IEC 61439-1
							IEC 61439-1, UL 508
Exterior mou	unting						
•	-						IEC 61439-1
							IEC 61439-1

¹⁾ Only with base plate 8US1922-2UA01

Suitable accessories

Flat copper pro	ofile						
	Surface	Length	Size	Rated current	Cross-section	Standard	Article No.
	Bare	1100 mm	25×5 mm	400 A	125 mm ²	EN 12167	8WC5031-1AA00
			30×5 mm	447 A	150 mm ²	EN 12167	8WC5033-1AA00
		2400 mm	12×5 mm	200 A	60 mm ²	EN 12167	8WC5123
			15×5 mm	250 A	75 mm ²	EN 12167	8WC5121
			20×5 mm	320 A	100 mm ²	EN 12167	8WC5126
			25×5 mm	400 A	125 mm ²	EN 12167	8WC5131
			30×5 mm	447 A	150 mm ²	EN 12167	8WC5133
			20×10 mm	520 A	200 mm ²	EN 12167	8WC5128
			30×10 mm	630 A	300 mm ²	EN 12167	8WC5134
	Tin-plated	2000 mm	12×5 mm	200 A	60 mm ²	EN 12167	8WC5051
			15×5 mm	250 A	75 mm ²	EN 12167	8WC5052
			20×5 mm	320 A	100 mm ²	EN 12167	8WC5053
			25×5 mm	400 A	125 mm ²	EN 12167	8WC5054
			30×5 mm	447 A	150 mm ²	EN 12167	8WC5055
			20×10 mm	520 A	200 mm ²	EN 12167	8WC5063
			30×10 mm	630 A	300 mm ²	EN 12167	8WC5065
End covers							
1	For covering	ig free busbar ends					
	For connection	on	For busbar sup	pport		Standard	Article No.
}	L1-L3		8US1923-2AA0)1, 8US1923-3AA01, 8	BUS1923-3UA01	UL 508	8US1922-1AC00
Cover profiles f	for busbars						
	Length	Width	Depth	Flat copper profile	e size	Standard	Article No.
	1000 mm	15 mm	10 mm	12×5 mm		UL 508	8US1922-2CA00
		40 mm	9 mm	15, 20, 25, 30×5 r	mm	UL 508	8US1922-2AA00
		40 mm	14 mm	12, 15, 20, 25, 30	×10 mm	UL 508	8US1922-2BA00

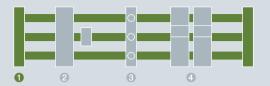
	End and intermediate holders			N/PE busbar supports
No. of poles	3P	2P	4P	1P
	Connection	Connection	Connection	Connection
	L1-L3	L1-L3 + PE/N	L1-L3 + PE/N	PE/N
	8US1923-3AA01	-	-	-
	8US1923-3UA01	-	-	-
	-	-	8US1923-4AA00	-
	-	-	-	5SH3540
	-	-	-	8US1923-1AA01
	8US1923-2AA01	-	-	-
	_	8US1923-5AA00	_	_

Blanking covers						
1	Length	Height	Depth		Standard	Article No.
	700 mm	195 mm	63 mm		UL 508	8US1922-2EB00
Supports for blar	nking covers					
護	Depth				Standard	Article No.
	32 mm				UL 508	8US1922-2EA00
	107 mm				UL 508	8US1922-2EA01
Base plates						
	Version		Length	Width	Standard	Article No.
	For 3-pole syster	n	1100 mm	240 mm	UL 508	8US1922-2UA01
Connecting piece	e for flat copper p	orofiles				
	Length		For flat copper p	profiles		Article No.
3	40 mm			5 mm, 30×5 mm, : 10 mm, 30×10 mm		8US1921-2BE00
	55 mm			5 mm, 20×5 mm ×10 mm, 20×10 mm		8US1921-2BF00

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Basic assemblies

Up to 1600 A





Copper profile	Rated cur	rent I _e	Rated voltag	je U _e	Short-circuit current rating SCCR		Standard	Connection
	IEC	UL 508	IEC	UL 508	IEC	UL 508		L1-L3
Interior mounting								
TT special profile	1600 A	1400 A	690 V AC	600 V AC	90 kA	100 kA	IEC, UL 508	8US1943-3AA00

¹ pack = 2 busbar supports + finger-safe end covers

Suitable accessories

TT special copper	profile					
	Surface	Length	Rated current	Rated voltage	Cross-section	Article No.
	Tin-plated	2400 mm	1600 A	690 V AC	720 mm ²	8US1948-2AA00
Cover profile for T	T special coppe	r profile				
	Length					Article No.
	1000 mm					8US1922-2DA00
Blanking covers						
	Length	Height	Depth		Standard	Article No.
	700 mm	195 mm	63 mm		UL 508	8US1922-2EB00
Supports for blank	king covers					
E	Depth				Standard	Article No.
Ĩ	32 mm				UL 508	8US1922-2EA00
	107 mm				UL 508	8US1922-2EA01
Connecting piece	for TT special p	rofile				
50						Article No.
7-						8US1941-2BF01
Partitions, closed						
	For additional	al lateral touch p	rotection at the top / bot	tom		
	Length	Depth				Article No.
200	2400 mm	76 mm				8US1922-1JA00

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2 Infeeds and connection methods

Up to 1600 A



Conductor cross-se circular conductor	ction,	Conductor cross-section, laminated copper	Rated cur	rent I _e	Rated volta	ge U _e	Standard	Length
IEC	UL 508		IEC	UL 508	IEC	UL 508		
With cover								
Cu 1.5 16 mm ²	Cu AWG 16 4	Cu lam. 8 × 6 × 0.5 mm	63 A	48 A	690 V AC	600 V AC	IEC, UL 508	200 mm
Cu 6 50 mm ²	Cu AWG 10 2	-	175 A	175 A	690 V AC	600 V AC	IEC, UL 508	200 mm
Cu 25 120 mm ²	Cu AWG 6 MCM 250	-	250 A	250 A	690 V AC	600 V AC	IEC, UL 508	200 mm
Cu 95 300 mm ² Al 120 240 mm ²	AWG 3/0 MCM 600	-	500 A	420 A	690 V AC	-	IEC, UL 508	200 mm
Without cover								
Cu 95 300 mm ²	AWG 3/0 MCM 600	-	500 A	420 A	690 V AC	600 V AC	IEC, UL 508	184 mm
-	-	Cu lam. 3×20×110×32×1 mm	550 A	420 A	690 V AC	600 V AC	IEC, UL 508	184 mm
For 4th pole (PE/N) ²)							
Cu 1.5 16 mm ²	-	-	-	-	690 V AC	600 V AC	IEC, UL 508	242 mm

¹⁾ Shown without cover

Suitable accessories

Cover for connection module



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²⁾ For mounting on device adapter or device holder

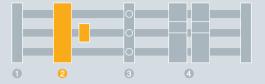
	Connection modules For 5 mm and 10 mm flat	t copper profiles	For 5 mm and 10 mm fla and TT special profile	t copper profiles	For laminated copper
Width	Connection modules	Connection modules	Connection modules	Connection modules	Connection modules
	3P	3P	3P	PE/N	3P
20 mm	5SH3538	-	-	-	-
54 mm	-	-	8US1921-1BA00	-	-
81 mm	-	-	8US1921-1AA00	-	_
135 mm	-	5SH3535 ¹⁾	-	-	-
153 mm	-	-	-	=	8US1941-2AA03
153 mm	-	-	-	-	8US1941-2AA04
18 mm	_	_		8US1200-0AA00	_

| Article No. |
|-------------|-------------|-------------|-------------|---------------|
| - | - | _ | - | 8US1922-1GC00 |

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2 Infeeds and connection methods

Up to 1600 A



Conductor cross-s circular conducto		Conductor cross-section, laminated copper	Rated cı	Rated current I _e		Rated voltage U _e		Minimum order quantity
IEC	UL 508		IEC	UL 508	IEC	UL 508		
Cu 1.5 16 mm ²	AWG 16 6	Cu lam. 8×6×0.5 mm	65 A	55 A	690 V AC	600 V AC	IEC, UL 508	15 units
								100 units
Cu 4 35 mm ²	AWG 10 2	Cu lam. 3×9×0.8 mm,	115 A	115 A	690 V AC	600 V AC	IEC, UL 508	15 units
		Cu lam. 6×9×0.8 mm						50 units
Cu 16 70 mm ²	AWG 4 2/0	Cu lam. 2×9×0.8 mm	175 A	175 A	690 V AC	600 V AC	IEC, UL 508	15 units
		Cu lam. 6×9×0.8 mm Cu lam. 6×13×0.5 mm						50 units
Cu 16 120 mm ²	AWG 4 MCM 250	Cu lam. 4×15.5×0.8 mm	250 A	255 A	690 V AC	600 V AC	IEC, UL 508	15 units
		Cu lam. 6×15.5×0.8 mm						50 units

Suitable accessories

Terminal covers for circular conductors



• Fixing to busbar

Length Width

200 mm 84 mm

Terminals

For 12×5 mm, 15×5 mm, 20×5 mm, 25×5 mm and 30×5 mm flat copper profiles

For 12 \times 10 mm, 15 \times 10 mm, 20 \times 10 mm, 25 \times 10 mm and 30 \times 10 mm flat copper profiles and TT special profile

















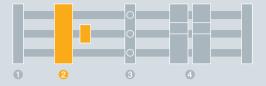
8US1921-2AA01	_	-	-	8US1921-2BA01	-	-	-
8US1921-2AA00	_	-	_	8US1921-2BA00	-	-	-
-	8US1921-2AB01	-	-	-	8US1921-2BB01	-	-
-	8US1921-2AB00	-	-	-	8US1921-2BB00	-	-
-	_	8US1921-2AD01	-	-	-	8US1921-2BD01	-
-	-	8US1921-2AD00	-	-	-	8US1921-2BD00	-
-	-	-	8US1921-2AC01	-	-	-	8US1921-2BC01
-	-	-	8US1921-2AC00	-	-	-	8US1921-2BC00

| Article No. |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 8US1922-1GA00 |
| | | | | | | | |
| | | | | | | | |

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2 Infeeds and connection methods

Up to 1600 A



Conductor cross-s circular conductor		Conductor cross-section,	Conductor cross-section,	Rated cui	rrent I _e	Rated volta	ge U _e	Standard
IEC	UL 508	laminated copper	cable lugs	IEC	UL 508	IEC	UL 508	
Cu 95 185 mm ² Al 95 185 mm ²	AWG 3/0 MCM 350	-	-	300 A	310 A	690 V AC	600 V AC	IEC, UL 508
Cu 95 300 mm ² Al 120 140 mm ²	AWG 3/0 MCM 600	-	-	500 A	420 A	690 V AC	600 V AC	IEC, UL 508
_	-	Cu lam. 3×20× 1 10×24×1 mm	-	500 A	420 A	690 V AC	600 V AC	IEC, UL 508
		Cu lam. 2×40×10 mm	-	1250 A	-	690 V AC	-	IEC
		-	Max. 240 mm ²	630 A	-	690 V AC	-	IEC

Suitable accessories

Terminal covers for circular conductors



• Fixing to busbar

Length Width

200 mm 270 mm

For 20 \times 10 mm, 25 \times 10 mm and 30 \times 10 mm flat copper profiles flat copper profiles and TT special profile













			•		
Fixing					
-	8US1941-2AA01	-	-	-	-
-	8US1941-2AA02	-	-	-	-
M16 threaded pin, size 8 Allen key	-	8US1941-2BB00	-	8US1941-2BB00	-
M16 threaded pin, size 8 Allen key	-	-	-	-	8US1941-2BA00
M16 threaded pin, size 8 Allen key, M10 hexagon bolt, width across flats 17	-	-	8US1941-2AC00	-	-

Article No.	Article No.	Article No.	Article No.	Article No.
8US1922-1GA02	_	-	-	-

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Built-in components

Up to 630 A





							April 1		
For flat copper	Rated cur	rent I _e	Rated volt	age U _e		Standard	Standard	With touch protect	ion
profiles	IEC	UL 508	IEC AC	IEC DC	UL				
Box terminals									
5 mm and 10 mm	25 A	-	500 V AC	-	-	IEC	-	-	-
	63 A	-	400 V AC	250 V DC	-	IEC	5SG6202	5SG6206	5SG6207
			690 V AC	-	600 V AC	IEC, ®	-	-	-
	_	– 30 A	690 V AC	-	-	IEC, 91 , ®	-	-	-
			-	-	600 V AC	(I), (S	-	-	-
		100 A	-	-	600 V AC	(l), c %L us	-	-	-
		200 A	-	-	600 V AC	(l), c 91 us	-	-	-
		400 A	-	-	600 V AC	(l), c 91 us	-	-	_

Suitable accessories

	Size	Version	Mounting width	Article No.	Article No.	Article No.	
	D02	Standard	1.5 MW	5SH5241	-	-	
		Extra wide	2 MW	5SH5242	-	-	
		With double width	3 MW	5SH5243	-	-	
ZED SR6	0 covers for standar	d version					
1	Size		Mounting width	Article No.	Article No.	Article No.	
	DII		2.3 MW	-	-	-	
	DIII		3.2 MW	-	-	-	

DIAZED bus-mounting fuse bases		Bus-mounting fuse ho	lders			
Size DII	Size DIII	Cylindrical fuses 10×38 mm	Class CC	Class J		
2.3 MW	3.2 MW	1.5 MW	1.5 MW	106 mm	184 mm	256 mm
	000					
Standard	With touch protection			3P	3P	3P
5SF6015	5SF6020	-	-	-	-	-
-	-	-	-	-	-	-
5SF6215	5SF6220	-	-	_	-	-
-	-	3NW7431	-	-	-	-
-	-	-	3NW7431-0HG	-	-	-
-	-	-	-	3NW7431-6HG	-	-
-	-	-	-	-	3NW7431-7HG	-
-	-	-	-	_	-	3NW7431-8HG

| Article No. |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| _ | - | - | - | - | - | - |
_	-	-	-	-	-	-
Article No.						
5SH2042	_	_	-	_	-	-
5SH2242	-	-	-	-	-	-

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Built-in components

Up to 630 A



	NEOZED bus-mo	ounting switch dis	connectors
	Size D02		
Mounting width	1.5 MW	1.5 MW	1.5 MW
		100	

							_		-
For flat copper	Rated current I _e		Rated volta	Rated voltage U _e			Without LED signal detector		With LED
profiles	IEC	UL 508	IEC AC	IEC DC	UL 508				signal detector
Box terminals									
5 mm and 10 mm	63 A	_	400 V AC	_	-	IEC	5SG7234-1 ²⁾	_	5SG7234-2 ²⁾
				110 V DC	-	IEC	-	5SG7230 1)	-

¹⁾ From 35 A current load use 5SH5526 lateral module ²⁾ From 35 A current load use 5SH5533 lateral module

Suitable accessories

Auxiliary switches					
	For signaling the sy	witching state for bus-mounting switch disconnectors			
	Contacts	Mounting width	Article No.	Article No.	Article No.
0,1	1 CO contact	0.5 MW	-	5SH5525	-
Lateral modules					
d	For greater heat dis	ssipation for loads from 35 A			
03	Mounting width		Article No.	Article No.	Article No.
	0.5 MW		5SH5533	5SH5526	5SH5533
Reducers					
A 22	For NEOZED D01 ft	use links in SR60 bus-mounting switch disconnectors			
12 (1			Article No.	Article No.	Article No.
			-	5SH5527	-

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Device adapters and device holders

For universal application up to 1600 A



Rated co	urrent l _e	Rated volt	age U _e	Standard	For copper	Adapters	;	Connecting ca	able			
IEC	UL 508	IEC	UL 508		profiles	Width	Length	Cross-section	Max. temperature	Length		
25 A	25 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm,	45 mm	200 mm	AWG 12	150 °C	99 mm		
					TT profile					167 mm		
							260 mm	AWG 12	150 °C	99 mm		
										167 mm		
32 A	32 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm,	45 mm	200 mm	AWG 10	105 °C	118 mm		
					TT profile				150 °C	99 mm		
										167 mm		
							260 mm	AWG 10	150 °C	99 mm		
										167 mm		
80 A	80 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm,	54 mm	200 mm	AWG 4	150 °C	150 mm		
				TT profile	TT profile	TT profile	TT profile		260 mm	AWG 4	150 °C	150 mm
						119 mm	260 mm	AWG 4	150 °C	150 mm		
100 A	100 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	72 mm	200 mm	AWG 4	105 ℃	210 mm		
_	-	-	-	-	5 mm, 10 mm,	45 mm	200 mm	-	-	-		
					TT profile			-	-	-		
							260 mm	-	-	-		

Accessories

Lateral modules

• For extending device adapters and device holders of the same length

Length	Width
200 mm	9 mm



Article No.	Article No.	Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
8US1998-2BJ10	8US1998-2BJ10	8US1998-2BJ10	8US1998-2BJ10	_	_	8US1998-2BJ10	_

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Device adapters and device holders

For molded case circuit breakers and switch disconnectors up to 1600 A



Rated cur	rent I _e UL 508	Rated volta	ige U _e UL 508	Standard	For copper profile	Adapters Length	Width	Connecting cable
Screw terr		IEC	02 300			Length	Widti	
80 A	80 A	_	600 V AC	UL 508	5 mm, 10 mm, TT profile	200 mm	81 mm	AWG 4
125 A	125 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	200 mm	90 mm	Cu laminated 6×9×0.8 mm
Busbar co	ntact							
144 A		690 V AC	_	IEC	5 mm, 10 mm, TT profile	200 mm	76 mm	_
160 A	-	690 V AC	-	IEC	5 mm, 10 mm, TT profile	175 mm	108 mm	-
250 A	_	690 V AC	-	IEC	5 mm, 10 mm, TT profile	175 mm	108 mm	-
Tubular co	ontacts							
150 A	150 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	190 mm	105 mm	-
250 A	250 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	190 mm	105 mm	-
						240 mm	105 mm	-
	_	690 V AC	_	IEC	5 mm, 10 mm, TT profile	270 mm	140 mm	_
400 A	400 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	296 mm	140 mm	_
540 A	540 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	296 mm	140 mm	-
580 A	-	690 V AC	_	IEC	5 mm, 10 mm, TT profile	325 mm	184 mm	-
590 A	600 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	300 mm	140 mm	-
	-	690 V AC	_	IEC	5 mm, 10 mm, TT profile	300 mm	185 mm	-
M10 pin c	onnector							
400 A	-	690 V AC	-	IEC	5 mm, 10 mm, TT profile	320 mm	184 mm	-
630 A	630 A	690 V AC	600 V AC	IEC, UL 508	5 mm, 10 mm, TT profile	320 mm	250 mm	-
	-	690 V AC	-	IEC	5 mm, 10 mm, TT profile	320 mm	184 mm	-
						320 mm	250 mm	-

 $^{^{1)}}$ Observe the short-circuit strength of the busbar system: Short-circuit strength > 50 kA on request.

Usable only for 3VL circuit breakers with line-side box terminals.
 Only for 3VL 250 A circuit breakers, for screw fixing with metric thread, for flat terminals.
 Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e.g. H07V-R with cable lug, or as a flat conductor for an M10 pin connector.

⁵⁾ Without connecting cables. The connecting cable between adapter and device should be manufactured in accordance with the rated current as a round cable, e.g. H07V-R, bared at both ends for tunnel terminals.

Device adapter For molded case	circuit breakers		For switch disconnectors	For fuse switch disconnectors
3VA		3VL ¹⁾	3KA and 3KL	3NP5
	elejeje N W -s		PARTY.	

	• • •	W 88		Total II	
Device Size / version	3-pole	4-pole	3-pole	3-pole	3-pole
NGG, HGG, LGG	8US1240-5MA00	-	-	-	-
3VA10, 3VA11, 3VA51, NGG, HGG, LGG (connection at top)	8US1211-4SS00	-	-	-	-
3VA10, 3VA11, 3VA51 (connection at bottom)	8US1215-4SS00	-	-	-	-
3VA10 3VA11	8US1213-4AU01	_	-	-	-
3VL1 ²⁾ , 3VL2 ²⁾	_	_	8US1211-4SL01	-	-
3NP5060 (NH00)	-	-	-	-	8US1291-4SB00
3VL3 ³⁾	-	_	8US1211-4SL00	-	-
VL150X UL CG frame	_	_	8US1213-4AQ01	-	-
VL150 UL DG frame	_	_	8US1213-4AQ03	-	-
VL250 UL FG frame	-	-	8US1213-4AQ03	-	-
3VA12, 3VA20, 3VA21, 3VA22, 3VA52, 3VA61, 3VA62	8US1213-4AP03	-	-	-	-
3VA12, 3VA20, 3VA21, 3VA22	-	8US1313-4AH03	-	_	-
VL400 UL JG frame	-	_	8US1213-4AH00	-	-
VL400X UL LG frame	_	_	8US1213-4AH00	-	-
3VL5	_	_	8US1213-4AF00	-	-
3VA23, 3VA24, 3VA63, 3VA64	8US1213-4AH04	_	-	-	-
3VA23, 3VA24	-	8US1313-4AM04	-	_	-
3VL1 up to 3VL4 (also with RCD module) 2)	-	-	8US1210-4AF00 + 8US1927-4AF01	-	-
3NP52, 3NP53, 3NP54 ⁵⁾	_	-	-	-	8US1210-4AG00
3KA52, 3KA53, 3KL52, 3KL53	-	-	-	8US1210-4AF00 ⁴⁾	-
3KA55, 3KA57, 3KA58, 3KL55, 3KL57	-	-	-	8US1210-4AG00 ⁴⁾	-

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Device adapters and device holders

For load feeders up to 1600 A



Rated current I _e		Rated voltage U _e		Standard	For copper	Adapters		Connecting cable		Device		
IEC	UL 508	IEC	UL 508	U, s		profile	Length	Width	Cross-section	Max. temperature	Size	
Screw terminals												
25 A 25	25 A	690 V AC	600 V AC	-	IEC, UL 508	5 mm, 10 mm, TT profile	200 mm 45 mm	AWG 12	150 °C	S00		
											S0	
							260 mm	45 mm	AWG 12	150 °C	S00	
32 A 32 A	32 A	690 V AC	600 V AC	-	IEC, UL 508	5 mm, 10 mm, TT profile	200 mm	45 mm	AWG 10	150 °C	S0	
							260 mm	45 mm	AWG 10	150 °C	S0	
		-	-	690 V AC	91 , ®	5 mm, 10 mm, TT profile	200 mm	45 mm	AWG 10	105 ℃	S00/S0	
65 A	65 A	690 V AC 600	600 V AC	-	IEC, UL 508	5 mm, 10 mm, TT profile	260 mm	54 mm	AWG 4	150 °C	S2	
								119 mm	AWG 4	150 °C	S2	
80 A	80 A	690 V AC 6	600 V AC	-	IEC, UL 508	5 mm, 10 mm, TT profile	200 mm	54 mm	AWG 4	150 °C	S2	
							215 mm	72 mm	AWG 4	150 °C	S3	
Spring-lo	Spring-loaded terminals											
25 A	25 A	690 V AC 6	600 V AC	-	IEC, UL 508	5 mm, 10 mm, TT profile	200 mm	45 mm	AWG 12	150 °C	S00	
							260 mm	45 mm	AWG 12	150 °C	S00	
32 A	32 A	690 V AC 600 V	600 V AC	00 V AC -	IEC, UL 508	5 mm, 10 mm, TT profile	200 mm	45 mm	AWG 10	150 °C	S0	
							260 mm	45 mm	AWG 10	150 °C	S0	

Suitable accessories

Vibration & shock kit S2



Purpose

For size 2 devices

Lateral modules



• For extending device adapters and device holders of the same length

Length Width 200 mm 9 mm

Device adapters for	r load foodors				
SIRIUS 3RV2/3RT2 Circuit breakers	Direct-on-line starters	Reversing starters	SIRIUS 3RV1/3RT1 Circuit breakers	SIRIUS 3RA6 Direct-on-line starters	Reversing starters
				(A)	
8US1251-5DS10	8US1251-5DS10	8US1251-5DS10 + 8US1250-5AS10	-	-	-
8US1251-5DS10	-	-	-	-	-
_	8US1251-5DT10	-	-	-	-
8US1251-5NS10	-	-	-	-	-
8US1251-5NT10	8US1251-5NT10	8US1251-5NT10 + 8US1250-5AT10	-	-	-
-	-	-	-	8US1211-1NS10	8US1211-1NS10 + 8US1250-1AA10
-	8US1261-6MT10	-	-	_	-
-	-	8US1211-6MT10	-	-	-
8US1261-5MS13	-	-	-	-	-
-	-	-	8US1211-4TR00	-	-
8US1251-5DS11	-	-	-	-	-
8US1251-5DT11	8US1251-5DT11	8US1251-5DT11 + 8US1250-5AT10	-	-	-
8US1251-5NS11	-	-	-	-	-
8US1251-5NT11	8US1251-5NT11	8US1251-5NT11 + 8US1250-5AT10	-	-	-

Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
8US1998-1DA10	8US1998-1DA10	8US1998-1DA10	-	-	-
Article No.	Article No.	Article No.	Article No.	Article No.	Article No.
8US1998-2BJ10	8US1998-2BJ10	8US1998-2BJ10	_	8US1998-2BJ10	8US1998-2BJ10

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Device adapters and device holders

Accessories for device adapters for SIRIUS 3RV2/3RT2 load feeders



Support rails (35	mm) made of plastic with fixing screws	
	Length	Article No.
	45 mm	8US1998-7CB45
	54 mm	8US1998-7CB54
	72 mm	8US1998-7CB72
Positioning piece		
	For pushing onSecures the adaptable devices on the adapter	
	For adapter width	Article No.
	45 mm	8US1998-1DA45
	54 mm	8US1998-1DA54
Connecting elem	ent	
L	For connecting busbar adapters and device holders	
		Article No.
		8US1998-1AA10
Spacers		
	Fix the feeder to the busbar adapter	
		Article No.
		8US1998-1BA10
Vibration & shoc	k kit	
		Article No.
		8US1998-1CA10

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System overview, page 13/4 Siemens LV 10 · 10/2019 13/33

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accessories. These can be combined with each other. This allows you to benefit from a high level of flexibility as well as simplified configuration.

Terminal Blocks



A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

For information about terminal blocks, please visit our

www.siemens.com/distribution-components



👤 Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact



Your product in detail

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Siemens YouTube channel

Our video range

- Siemens ALPHA FIX terminal blocks 8WH3 insulation displacement terminals (IDC) bit.ly/2Y3JCVq
- Siemens ALPHA FIX terminal blocks 8WH2 terminal with spring-loaded-connection bit.ly/2kKVz0D



Everything you need for your order

Refer to the Industry Mall for an overview of your products

• Terminal blocks sie.ag/2kW8ZXo

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

... can be found in our online services

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- Operating instructions
- Certificates

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Technical overview of terminal blocks



The fast way to get you to our online services

This page provides you with comprehensive information and links on terminal blocks www.siemens.com/lowvoltage/product-support (109769088)

8WH terminal blocks







8WH2 spring-loaded terminals







8WH5 combination plug-in terminals

See page 14/36

2.5 mm²

-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

From page 14/36





8WH3 insulation displacement terminals







8WH1 screw terminals

2.5 240 mm ²	See page 14/44
2.5 4 mm ²	See page 14/47
	-
	-
4 6 mm²	See page 14/48
4 mm²	See page 14/50
	_
6 mm²	See page 14/51
	-
	-
	-
4 6 mm²	See page 14/52
	_
	_
4 mm²	See page 14/54
2.5 mm ²	See page 14/55
Diameter 2 35 mm	See page 14/56
From p	age 14/44

8WA terminal blocks

			WA1 cerminals	spring	WA2 g-loaded ninals
Through-type terminals	Through-type terminals	2.5 95 mm ²	See page 14/62		
	Two-tier terminals	4 mm ²	See page 14/67		-
31EMEN3 324, 01, 9211 2444 703 15860	Three-tier terminals	2.5 mm ²	See page 14/68		_
	Four-tier motor terminals		-		-
Isolating terminals	Isolating and isolating blade terminals		-		-
1 (1885)	Two-tier isolating terminals		-	-	
Main come	N conductor isolating terminals	2.5 16 mm²	See page 14/69		-
1	Measuring transformer terminals	6 mm ²	See page 14/71		-
Initiator/actuator	Initiator terminals		-	1.5 mm ²	See page 14/76
terminals	Actuator terminals		-		See page 14/76
CP Delegation	Feeder terminals		-	1.5 mm²	See page 14/77
Function terminals	Fuse terminals	1.5 mm ²	See page 14/72		-
	Three-tier terminals		-		-
SIBORNS	Three-tier isolating terminals		-		-
	Diode terminals	2.5 mm ²	See page 14/73		-
	Two-tier diode terminals	4 mm ²	See page 14/74		-
	Shield terminals		-		-
	Further information	From p	age 14/62	From p	page 14/76

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8WH6 iPo plug-in terminals

Through-type terminals





Terminal width 5.2 mm Operational current I_{max} 30 A Operational voltage U_{max} 800 V

Connection capacity, one rigid conductor 0.14 ... 4 mm² Connection capacity, one flexible conductor with end sleeve 0.14 ... 2.5 mm²

Terminal size 2.5 mm² 4 mm² 6.2 mm **AWG** 26 ... 12 24 ... 10

0.2 ... 6 mm² 0.2 ... 4 mm²

Standard IEC 60947-7-1, IEC 60947-7-2, c **%** us

IEC 60947-7-1, IEC 60947-7-2, c suus









Terminals	Color			
Through-type terminals				
2	Gray	8WH6000-0AF00	8WH6000-0AG00	
	Blue	8WH6000-0AF01	8WH6000-0AG01	
3	Gray	8WH6003-0AF00	8WH6003-0AG00	
	Blue	8WH6003-0AF01	8WH6003-0AG01	
4	Gray	8WH6004-0AF00	8WH6004-0AG00	
	Blue	8WH6004-0AF01	8WH6004-0AG01	
② PE through-type terminals				
2	Green-yellow	8WH6000-0CF07	8WH6000-0CG07	
3	Green-yellow	8WH6003-0CF07	8WH6003-0CG07	
4	Green-yellow	8WH6004-0CF07	8WH6004-0CG07	

Special accessories

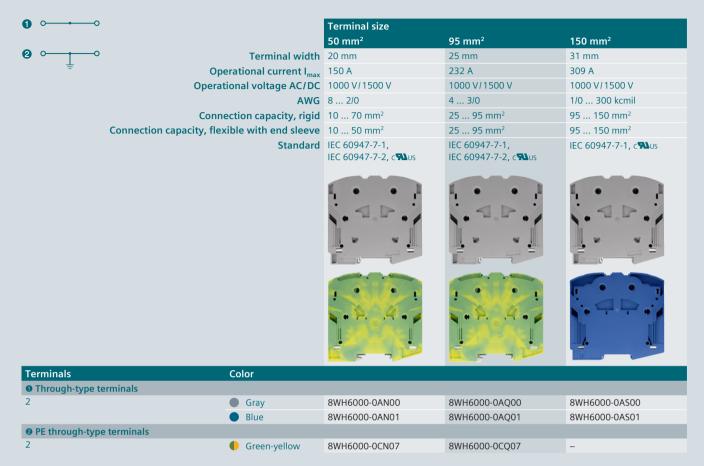
•						
Covers						
	Terminals	Color	Width	Article No.	Article No.	
	2	Gray	2.2 mm	8WH9000-1GA00	8WH9003-1GA00	
	3	Gray	2.2 mm	8WH9000-2GA00	8WH9003-2SA00	
	4	Gray	2.2 mm	8WH9000-4GA00	8WH9003-4SA00	
Partitions						
	Terminals	Color	Width	Article No.	Article No.	
	2	Gray	2.0 mm	8WH9070-0AA00	8WH9070-0AA00	
1/	3	Gray	2.0 mm	8WH9070-0GA00	8WH9070-0GA00	
_,	4	Gray	2.0 mm	8WH9070-0HA00	8WH9070-0HA00	
Cover segments						
		Color		Article No.	Article No.	
		Gray		8WH9000-0GA00	-	

6 mm²	10 mm²	16 mm²	35 mm²
8.2 mm	10.2 mm	12.2 mm	16 mm
41 A	57 A	90 A	125 A
1000 V	1000 V	1000 V	1000 V
20 8	20 6	20 4	10 2
0.5 10 mm ²	0.5 16 mm ²	0.5 25 mm ²	6 35 mm ²
0.5 6 mm ²	0.5 10 mm ²	0.5 16 mm ²	6 35 mm ²
IEC 60947-7-1, IEC 60947-7-2, c us	IEC 60947-7-1, IEC 60947-7-2, c us	IEC 60947-7-1, IEC 60947-7-2, ®, ®	IEC 60947-7-1, IEC 60947-7-2, ®, ®
8WH6000-0AH00 8WH6000-0AH01	8WH6000-0AJ00 8WH6000-0AJ01	8WH6000-0AK00 8WH6000-0AK01	8WH6000-0AM00 8WH6000-0AM01
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
8WH6000-0CH07	8WH6000-0CJ07	8WH6000-0CK07	8WH6000-0CM07
-	-	-	-
-	-	_	-

·	·	<u> </u>	·
Article No.	Article No.	Article No.	Article No.
8WH9004-3SA00	8WH9005-1SA00	8WH9006-1SA00	-
-	-	-	-
-	-	-	-
Article No.	Article No.	Article No.	Article No.
-	-	-	-
-	-	-	-
-	-	_	-
Article No.	Article No.	Article No.	Article No.
-	-	_	-
	8WH9004-3SA00 Article No Article No.	8WH9004-3SA00	8WH9004-3SA00 8WH9005-1SA00 - - - - - - - - - - - - - - - - - - - - - - - - Article No. Article No.

8WH6 iPo plug-in terminals

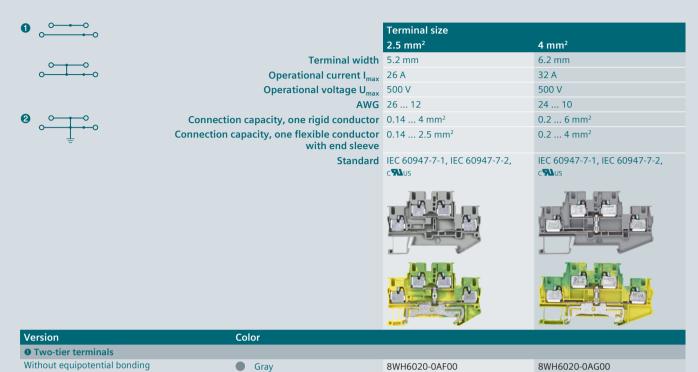
Through-type terminals for high-current applications



Special accessories

Connecting combs						
	Number of poles	Article No.	Article No.	Article No.		
	2-pole	8WH9020-3AB00	8WH9020-3AD00	8WH9020-3AF00		
	3-pole	8WH9020-3AC00	8WH9020-3AE00	8WH9020-3AG00		
Tap-off terminal						
	Number of poles	Article No.	Article No.	Article No.		
Par Jahr	1-pole	8WH9120-0DA00	8WH9120-0DA00	8WH9120-0DA00		
Test plugs						
	Surface	Article No.	Article No.	Article No.		
	Metal	8WH9010-0NB00	8WH9010-0NB00	8WH9010-0NB00		
Insulating sleeves for test plugs						
	Color	Article No.	Article No.	Article No.		
	Red	8WH9010-0MB02	8WH9010-0MB02	8WH9010-0MB02		

Two-tier terminals



		Blue	8WH6020-0AF01	8WH6020-0AG01
With equipotential bonding		Gray	8WH6025-0AF00	8WH6025-0AG00
❷ PE two-tier terminals ¹)				
	•	Green-yellow	8WH6020-0CF07	8WH6020-0CG07

¹⁾ Bridging the terminal is only possible in the top tier (in the center).

Special accessories

Covers					
	Terminals	Color	Width	Article No.	Article No.
	4	Gray	2.2 mm	8WH9000-4SE00	-
	4	Gray	2.2 mm	-	8WH9003-1VA00
Compartment part	itions				
	Terminals	Color	Thickness	Article No.	Article No.
	4	Gray	2 mm	8WH9070-0BA00	8WH9070-0BA00

8WH6 iPo plug-in terminals

Isolating terminals

...J L.

Terminal width 5.2 mm Operational current I_{max} 20 A Operational voltage U_{max} 400 V

Terminal size 2.5 mm² 4 mm² 6.2 mm 20 A 400 V **AWG** 26 ... 12 24 ... 10 0.2 ... 6 mm² 0.2 ... 4 mm² **Standard** IEC 60947-7-1, c**%**us IEC 60947-7-1, c **%**us

Connection capacity, one rigid conductor 0.14 ... 4 mm² Connection capacity, one flexible conductor with end sleeve 0.14 ... 2.5 mm²



Terminals	Color		
2	Gray	8WH6000-6CF00	8WH6000-6AG00
3	Gray	8WH6003-6CF00	-
4	Gray	8WH6004-6CF00	-

Special accessories

Covers							
	Terminals	Col	or	Width		Article No.	Article No.
	2		Gray	2.2 mm		8WH9000-3SC00	8WH9003-1GA00
	3		Gray	2.2 mm		8WH9000-3SD00	-
	4		Gray	2.2 mm		8WH9000-5GA00	-
Compartment pa	artitions						
	Terminals	Col	or	Width		Article No.	Article No.
	2		Gray	2.2 mm		8WH9070-0AA00	8WH9070-0AA00
	3		Gray	2.2 mm		8WH9070-0GA00	8WH9070-0GA00
Plug-in zone con	nectors						
0	Туре	Col	or	I _{max}	Illuminated display	Article No.	Article No.
\rightarrow	Isolating plugs		Orange	-	-	8WH9040-0DB04	8WH9040-0DB04
	Through-type connectors	•	Gray	16 A	-	8WH9020-8AB00	8WH9020-8AB00
M	Fused connectors 1)	•	Black	6.3 A	12 30 V, 1 2.5 mA	8WH9040-3AB08	8WH9040-3AB08
					110 250 V, 0.5 2.5 mA	8WH9040-3CB08	8WH9040-3CB08
d po					Without	8WH9040-3DB08	8WH9040-3DB08
dh.	Component connectors	•	Gray	6 A	-	8WH9040-0BB00	8WH9040-0BB00

¹⁾ The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications.

Isolating blade terminals



Terminal size 2.5 mm² 4 mm² Terminal width 5.2 mm 6.2 mm Operational current I_{max} 20 A 20 A Operational voltage U_{max} 400 V 400 V **AWG** 26 ... 12 24 ... 10 Connection capacity, one rigid conductor 0.14 ... 4 mm² 0.2 ... 6 mm² Connection capacity, two rigid conductors -0.5 ... 6 mm² Connection capacity, one flexible conductor 0.14 ... 2.5 mm² 0.2 ... 4 mm² **Standard** IEC 60947-7-1, c**%**us IEC 60947-7-1, c**%**us

Terminals	Color		
2	Gray	8WH6000-6AF00	8WH6000-6CG00
3	Gray	8WH6003-6AF00	-
4	Gray	8WH6004-6AF00	-

Special accessories

Covers							
	Terminals	Color	Width	Article No.	Article No.		
	2	Gray	2.2 mm	8WH9000-3SC00	8WH9003-1GA00		
	3	Gray	2.2 mm	8WH9000-3SD00	-		
	4	Gray	2.2 mm	8WH9000-5GA00	-		
Compartment parti	itions						
	Terminals	Color	Thickness	Article No.	Article No.		
1/	2	● Gray	2 mm	8WH9070-0AA00	8WH9070-0AA00		

8WH6 iPo plug-in terminals

Fuse terminals





	Terminal size
	4 mm ²
Terminal width	6.2 mm
Operational current I _{max}	6.3 A
Operational voltage U _{max}	500 V
AWG	24 10

Connection capacity, one rigid conductor 0.2 ... 4 mm²
Connection capacity, one flexible conductor with end sleeve 0.2 ... 4 mm²

Standard c \$\subseteq \text{US, \$\circ}\$



LED	Color	
Fuse terminals for 5 × 20 mm G fuse links		
• Without	Black	8WH6000-1GG08
② 10 30 V AC/DC	Black	8WH6000-1KG38
② 110 250 V AC/DC	Black	8WH6000-1MG88

Special accessories

Covers				
	Terminals	Color	Width	Article No.
	2	Gray	2.2 mm	8WH9003-1GA00

Feeder terminals for initiator/actuator terminals

1		Terminal size
		2.5 mm ²
2 PF + −	Terminal width	7 mm
2 PE L+ L-	Operational current I _{max}	20 A
-	Operational voltage U _{max}	250 V
	AWG	24 12
	Connection capacity, flexible with end sleeve, with plastic sleeve	0.14 1.0 mm ²
	Connection capacity, flexible with end sleeve, without plastic sleeve	0.14 1.5 mm ²
	Standard	IEC 60947-7-1
Conductors 1)	Color	
1 3-wire, L+, L-	Orange	8WH6003-0DF04
2 4-wire, L+, L−, PE	Orange	8WH6004-0HE04

General accessories, page 14/57 onwards

 $^{1)}$ L+ = red, L- = blue, A (output) = petrol, L = petrol, PE (ground) = green/yellow

8WH6 iPo plug-in terminals

Initiator/actuator terminals



Conductors 1)	LED	Color		
• Initiator terminal				
3-wire, L+, L-, A	-	Gray	8WH6003-0DE00	-
3-wire, L+, L-, A	Green, 24 V (15 30 V DC)	Gray	8WH6003-0FE00	-
3-wire, L, A, PE	-	Gray	8WH6003-0HE00	-
Actuator terminal				
4-wire, L+, L-, L, A	-	Gray	-	8WH6004-0DE00
4-wire, L+, L-, L, A	Green, 24 V (15 30 V DC)	Gray	-	8WH6004-0FE00
4-wire, L+, L-, PE, A	-	Gray	-	8WH6004-0HE00

Special accessories

Covers					
	Version	Width	Color	Article No.	Article No.
	For 3-wire	2.2 mm	Gray	8WH9001-2VD00	-
	For 4-wire	2.2 mm	Gray	_	8WH9001-4VE00

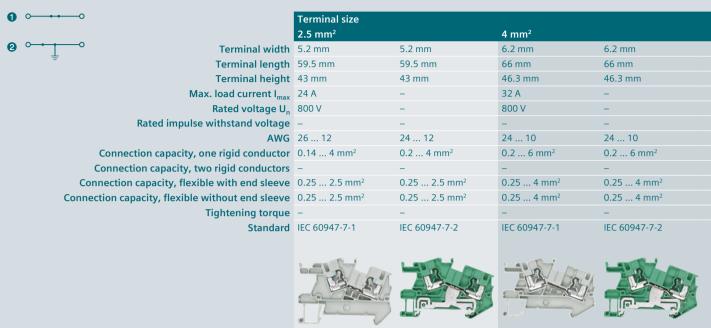
 $^{^{1)}}$ L+ = red, L- = blue, A (output) = petrol, L = petrol, PE (ground) = green/yellow

General accessories for 8WH6 initiator/actuator terminals

Connecting combs					
	Number of poles	Load current		Color	Article No.
	2-pole	17.5 A		Red	8WH9020-6JC02
				Blue	8WH9020-6JC01
				Gray	8WH9020-6JC00
4 4 4 4 4	3-pole	17.5 A		Red	8WH9020-6JD02
				Blue	8WH9020-6JD01
				Gray	8WH9020-6JD00
	4-pole	17.5 A		Red	8WH9020-6JE02
				Blue	8WH9020-6JE01
				Gray	8WH9020-6JE00
	5-pole	17.5 A		Red	8WH9020-6JF02
				Blue	8WH9020-6JF01
				Gray	8WH9020-6JF00
	10-pole	17.5 A		Red	8WH9020-6JL02
				Blue	8WH9020-6JL01
				Gray	8WH9020-6JL00
	20-pole	17.5 A		Red	8WH9020-6JS02
				Blue	8WH9020-6JS01
				Gray	8WH9020-6JS00
Labels, front, for termi	nal width 3.5 mm and ter	minal size 1.5 mm²			
	Variant			Color	Article No.
	Blank			White	8WH8110-0AA05
	Custom inscription	Printed vertically		White	8WH8140-0XA05-Z Y01
		Printed horizontally		White	8WH8120-0XA05-Z Y01
abels, flat, for termina	al width 3.5 mm and term	inal size 1.5 mm²			
	Variant		Inscription	Color	Article No.
	Blank			White	8WH8111-0AA05
1 2 3 4 5 6 7 8 9 10	Consecutive numbering	Printed vertically	1 10 (10×)	White	8WH8141-0AB05
			11 20 (10×)	White	8WH8141-0AB15
			21 30 (10×)	White	8WH8141-0AB25
			31 40 (10×)	White	8WH8141-0AB35
			41 50 (10×)	White	8WH8141-0AB45
1		Printed horizontally	1 10 (10×)	White	8WH8121-0AB05
2			11 20 (10×)	White	8WH8121-0AB15
4			21 30 (10×)	White	8WH8121-0AB25
4 5			31 40 (10×)	White	8WH8121-0AB35
6 7			41 50 (10×)	White	8WH8121-0AB45
8 9 10			51 60 (10×)	White	8WH8121-0AB55
	Custom inscription	Printed vertically		White	8WH8141-0XA05-Z Y01
		Printed horizontally		White	8WH8121-0XA05-Z Y01
abels for 8WH initiato	r/actuator terminals for la	abeling system			
	Variant	Terminal width	Standard	Color	Article No.
	Front, blank	3.5 mm	WIN 486	White	8WH8112-0AA05
	Flat, blank	3.5 mm	WIN 416	White	8WH8113-0AA05

8WH6 iPo installation terminals

Through-type terminals



Terminals	Color	iPo plug-in technolo	ogy	iPo plug-in technol	ogy	
• Through-type	terminals					
2	Gray	8WH6001-0AF00	-	8WH6001-0AG00	-	
	Blue	8WH6001-0AF01	-	8WH6001-0AG01	-	
9 PE through-type terminals						
2	Green-yellow	-	8WH6001-0CF07	-	8WH6001-0CG07	

Special accessories

Covers				
	Color	Width	Article No.	Article No.
	Gray	2 mm	8WH9000-1WA00	8WH9003-7WA00
Support bracket	S			
	 For holding the N busbar 			
	Color		Article No.	Article No.
	Blue		8WH9143-0AF01	8WH9143-0AF01
Connecting com	bs			
igi igi igi	Number of poles		Article No.	Article No.
	2-pole		-	-
	3-pole		-	-
	10-pole		-	-
Compartment pa	artitions			
	Color		Article No.	Article No.
	Gray		-	-
Insulation plate				
	Color		Article No.	Article No.
	Gray		-	-

8.2 mm 12.2 mm 12.2 mm 16 mm 16 mm 66 mm 66 mm 42.5 mm 42.5 mm 55 mm 55 mm 50 mm 50 mm 47 mm 47 mm 51 mm 51 mm 41 A - 101 A 101 A 125 A 125 A 800 V - 400 V - 800 V - - - 6 kV 6 kV 8 kV 8 kV 20 8 20 8 22 4 22 4 18 2 18 2	
50 mm 50 mm 47 mm 47 mm 51 mm 51 mm 41 A - 101 A 101 A 125 A 125 A 800 V - 400 V - 800 V - - - 6 kV 6 kV 8 kV 8 kV 20 8 20 8 22 4 22 4 18 2 18 2	
41 A - 101 A 101 A 125 A 125 A 800 V - 400 V - 800 V - - - 6 kV 6 kV 8 kV 8 kV 20 8 20 8 22 4 22 4 18 2 18 2	
800 V - 400 V - 800 V - - - 6 kV 6 kV 8 kV 8 kV 20 8 22 4 22 4 18 2 18 2	
6 kV 6 kV 8 kV 8 kV 20 8 22 4 22 4 18 2 18 2	
20 8 22 4 22 4 18 2 18 2	
0.5 10 mm ² 0.5 10 mm ² 1.5 16 mm ² 0.75 35 mm ² 0.75 35 mm ²	
- 1.5 6 mm ² 1.5 6 mm ² 0.75 10 mm ² 0.75 10 mm ²	
0.5 6 mm ² 0.5 6 mm ² 1.5 4 mm ² 0.75 10 mm ² 0.75 10 mm ²	
0.5 6 mm ²	
1.5 1.8 Nm 1.5 1.8 Nm 3.2 3.7 Nm 3.2 3.7 Nm	
IEC 60947-7-1 IEC 60947-7-1, IEC 60947-7-1, IEC 60947-7-1, IEC 60947-7-2, c¶us, € C¶u	
iPo plug-in technology Screw terminals Screw terminals	
8WH6001-0AH00 – 8WH1001-0AK00 – 8WH1001-0AM00 –	
8WH6001-0AH01 – 8WH1001-0AK01 – 8WH1001-0AM01 –	
- 8WH6001-0CH07 - 8WH1001-0CK07 - 8WH1001-0CM07	

Article No.	Article No.	Article No.
8WH9004-1WA00	8WH9005-3PA00	_
Article No.	Article No.	Article No.
8WH9143-0AH01	-	_
Article No.	Article No.	Article No.
-	-	8WH9030-6BC00
-	-	8WH9030-6BD00
-	8WH9030-6AL00	-
Article No.	Article No.	Article No.
-	8WH9070-6HA00	_
Article No.	Article No.	Article No.
-	8WH9070-6GA00	8WH9070-6GA00

8WH6 iPo installation terminals

N conductor isolating terminals

Terminal size 2.5 mm² 4 mm² Terminal width 5.2 mm 6.2 mm Terminal length 59 mm 66 mm Terminal height 46.3 mm 46.3 mm Rated current I_n/cross-section 24 A/2.5 mm² 32 A/4 mm² 250 V Rated voltage U_n 250 V Rated impulse withstand voltage -AWG 26 ... 12 24 ... 10 Connection capacity, one rigid conductor 0.14 ... 4 mm² 0.2 ... 6 mm² Connection capacity, two rigid conductors -Connection capacity, one flexible conductor with end sleeve 0.14 ... 2.5 mm² 0.25 ... 4 mm² Connection capacity, two flexible conductors with end sleeve -Tightening torque -Standard IEC 60947-7-1 IEC 60947-7-1 Terminals iPo plug-in technology Color iPo plug-in technology Blue 8WH6001-0BF01 8WH6001-0BG01

Special accessories

Covers				
	Color		Article No.	Article No.
	Blue		8WH9000-1SA00	8WH9003-1SA00
SEE THE	● Gray		-	-
Support brackets				
_	For holding the N busbsTo be placed every 20 c	ar 10 × 3 mm :m		
	Color		Article No.	Article No.
	Blue		8WH9143-0AF01	8WH9143-0AF01
			-	-
Connecting terminals				
	Color	Width	Article No.	Article No.
8	Blue	10.3 mm	8WH9126-0BA01	8WH9126-0BA01
N busbars, 10 × 3 mm				
	Version	Length	Article No.	Article No.
	Copper, tinned	1000 mm	8WA2842	8WA2842

6 mm²	10 mm²	16 mm²	35 mm ²
8.2 mm	10 mm	12 mm	16 mm
66.3 mm	43.5 mm	43.5 mm	55 mm
50 mm	47 mm	54 mm	51 mm
41 A/6 mm ²	63 A/16 mm ²	90 A/25 mm ²	110 A/35 mm ²
400 V	-	-	-
-	6 kV	6 kV	6 kV
20 8	-	-	-
0.5 10 mm ²	1.5 10 mm ²	1.5 16 mm²	0.75 35 mm ²
-	1.5 4 mm ²	1.5 6 mm ²	0.75 10 mm ²
0.5 6 mm ²	1.5 6 mm ²	1.5 16 mm²	0.75 35 mm ²
-	1.5 2.5 mm ²	1.5 8 mm²	0.75 10 mm ²
-	1.5 1.8 Nm	1.5 1.8 Nm	3.2 3.7 Nm
IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1	IEC 60947-7-1
iPo plug-in technology	Screw terminals	Screw terminals	Screw terminals
8WH6001-0BH01	8WH1001-0BJ01	8WH1001-0BK01	8WH1001-0BM01

Article No.	Article No.	Article No.	Article No.
8WH9143-0AH01	-	-	-
-	8WH9141-0BA01	8WH9141-0BA01	8WH9141-0BA01
Article No.	Article No.	Article No.	Article No.
8WH9126-0BA01	8WH9126-0BA01	8WH9126-0BA01	-
<u> </u>		·	
Article No.	Article No.	Article No.	Article No.

Article No.

8WA2842

8WH9005-3PA00

Article No.

8WA2842

8WH9005-3PA00

Article No.

8WA2842

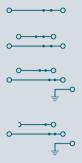
8WH9004-1SA00

Article No.

8WA2842

8WH6 iPo installation terminals

Three-tier terminals



	Terminal size
	2.5 mm ²
Terminal width	5.2 mm
Terminal length	101 mm
Terminal height	50.5 mm
Rated current I _n / cross-section	24 A/4 mm ²
Rated voltage U _n (L-L)	400 V
Rated voltage U _n (L-N, L-PE)	250 V
AWG	26 12
Connection capacity, rigid	0.14 4 mm ²
onnection capacity, flexible with end sleeve	0.14 2.5 mm ²

Versions	Color	
L	● Gray	8WH6001-4QF00
L/L	● Gray	8WH6001-4DF00
L/N	● Gray	8WH6001-4CF00
PE/L/L	● Gray	8WH6001-4HF00
PE/L/N	● Gray	8WH6001-4EF00
PE/L/NT	● Gray	8WH6001-4FF00

Special accessories

Covers			
	Color		Article No.
	Gray		8WH9000-3SA00
Support brackets			
	For holding the N busbarTo be placed every 20 cm		
	Color	Width	Article No.
	Blue	2 mm	8WH9142-0AF01
N busbars, 10 × 3 mm			
	Version	Length	Article No.
	Copper, tinned 1)	1000 mm	8WA2842

¹⁾ Only copper busbars may be installed.

Three-tier isolating terminals



Versions	Color					
Through-type terminals with identical contour						
PE/L/L	Gray	-	-	8WH6001-4PF00		
② Isolating terminals						
PE/L/L isolation	● Gray	8WH6001-4MF00	-	-		
Isolating blade term	Isolating blade terminals					
PE/L/L isolating blade	● Gray	-	8WH6001-4NF00	-		
PE/L/N isolating blade	Gray	-	8WH6001-4GF00	-		

Special accessories

Covers for isolating terminal in the contour					
	Color	Article No.	Article No.	Article No.	
	Gray	-	8WH9000-6SA00	8WH9000-6SA00	

8WH2 spring-loaded terminals

Through-type terminals



Terminals	Color		
1 Through-type	terminals		
2	Gray	8WH2000-0AE00	8WH2000-0AF00
	Blue	8WH2000-0AE01	8WH2000-0AF01
	Orange	8WH2000-0AE04	8WH2000-0AF04
	Red	8WH2000-0AE02	8WH2000-0AF02
	Black	8WH2000-0AE08	8WH2000-0AF08
	Green	8WH2000-0AE03	8WH2000-0AF03
	White	8WH2000-0AE05	8WH2000-0AF05
	Yellow	8WH2000-0AE06	8WH2000-0AF06
3	Gray	8WH2003-0AE00	8WH2003-0AF00
	Blue	8WH2003-0AE01	8WH2003-0AF01
	Orange	8WH2003-0AF04	8WH2003-0AF04
4	Gray	8WH2004-0AE00	8WH2004-0AF00
	Blue	8WH2004-0AE01	8WH2004-0AF01
	Orange	8WH2004-0AF04	8WH2004-0AF04
PE through-typ	pe terminals		
2	Green-yellow	8WH2000-0CE07	8WH2000-0CF07
3	Green-yellow	8WH2003-0CE07	8WH2003-0CF07
4	Green-yellow	8WH2004-0CE07	8WH2004-0CF07

Special accessories

•					
Covers					
	Color	Terminals	Article No.	Article No.	
	Gray	2	8WH9000-1GA00	8WH9000-1GA00	
		3	8WH9000-2GA00	8WH9000-2GA00	
		4	8WH9000-4GA00	8WH9000-4GA00	
Compartment part	itions				
	Color	Terminals	Article No.	Article No.	
	Gray	2	8WH9070-0AA00	8WH9070-0AA00	
		3	8WH9070-0GA00	8WH9070-0GA00	
-,		4	8WH9070-0HA00	8WH9070-0HA00	
Cover segments					
	 For covering multi- two-wire terminals 	wire terminals when mounting side-by-side			
	Color		Article No.	Article No.	
	Gray		8WH9000-0GA00	8WH9000-0GA00	
Warning covers for	r the operating shafts of	8WH2 through-type terminals			
-			Article No.	Article No.	
			8WH9061-5AA06	8WH9060-5AA06	

4 mm ²	6 mm²	10 mm²	16 mm²	35 mm²
6.2 mm	8.2 mm	10.2 mm	12 mm	16 mm
40 A	52 A	65 A	90 A	125 A
800 V	1000 V	1000 V	1000 V	1000 V
28 10	24 8	24 6	24 4	14 2
0.08 6 mm ²	0.2 10 mm ²	1.5 16 mm²	1.5 25 mm ²	2.5 35 mm ²
0.08 4 mm ²	0.2 6 mm ²	1.5 10 mm ²	1.5 16 mm ²	2.5 35 mm ²
IEC 60947-7-1, IEC 60947-7-2, c 91 us	IEC 60947-7-1, IEC 60947-7-2, c 91 us	IEC 60947-7-1, IEC 60947-7-2, c 91 us	IEC 60947-7-1, IEC 60947-7-2, c %l us	IEC 60947-7-1, IEC 60947-7-2, c % us
8WH2000-0AG00	8WH2000-0AH00	8WH2000-0AJ00	8WH2000-0AK00	8WH2000-0AM00
8WH2000-0AG01	8WH2000-0AH01	8WH2000-0AJ01	8WH2000-0AK01	8WH2000-0AM01
8WH2000-0AG04	-	-	-	-
8WH2000-0AG02	-	-	-	-
8WH2000-0AG08	-	-	-	-
8WH2000-0AG03	-	-	-	-
8WH2000-0AG05	-	-	-	-
8WH2000-0AG06	-	-	-	-
8WH2003-0AG00	8WH2003-0AH00	-	-	-
8WH2003-0AG01	8WH2003-0AH01	-	-	-
	-		-	-
8WH2004-0AG00	-	-	-	-
8WH2004-0AG01	-	-	-	-
-	-	-	-	-
8WH2000-0CG07	8WH2000-0CH07	8WH2000-0CJ07	8WH2000-0CK07	8WH2000-0CM07
8WH2003-0CG07	8WH2003-0CH07	-	-	-
8WH2004-0CG07	-	-	-	-

| Article No. |
|---------------|---------------|---------------|---------------|---------------|
| 8WH9003-1GA00 | 8WH9004-1GA00 | 8WH9005-1GA00 | 8WH9006-1GA00 | _ |
| 8WH9003-2GA00 | 8WH9004-2GA00 | - | - | _ |
| 8WH9003-4GA00 | - | _ | _ | _ |
| | | | | |
| Article No. |
8WH9070-0AA00	8WH9070-0DA00	_	_	_
8WH9070-0GA00	8WH9070-0DA00	-	_	-
8WH9070-0HA00	-	-	_	_
Article No.				
8WH9003-0GA00	-	-	-	-
Article No.				
8WH9063-5AA06	8WH9064-5AA06	8WH9065-5AA06	8WH9066-5AA06	8WH9067-5AA06

Hybrid through-type terminals

U			•
2	0	T	-0-0

	Terminal size	
	2.5 mm ²	4 mm²
Terminal width	5.2 mm	6.2 mm
Load current I	28 A	32 A
Operational voltage U	800 V	800 V
AWG Spring	28 12	28 10/26 10
Connection capacity, rigid, spring-loaded	0.08 4 mm ²	0.08 6 mm ²
Connection capacity, flexible, spring-loaded	0.08 2.5 mm ²	0.08 4 mm ²
AWG screw	26 14	28 10/26 10
Connection capacity, rigid, screw-type	0.14 4 mm ²	0.14 6 mm ²
Connection capacity, flexible, screw-type	0.14 2.5 mm ²	0.14 4 mm ²
Standard	IEC 60947-7-1, IEC 60947-7-2	IEC 60947-7-1, IEC 60947-7-2

Terminals	Color	Screw-type connection and spring-loaded connection	Screw-type connection and spring-loaded connection		
Hybrid through-t	type terminals				
3	Gray	8WH2103-2BF00	8WH2103-2BG00		
	Blue	8WH2103-2BF01	8WH2103-2BG01		
@ PE hybrid through-type terminals					
3	Green-yellow	8WH2103-3BF07	8WH2103-3BG07		

Special accessories

Covers					
	Color	Terminals	Article No.	Article No.	
	● Gray	3	8WH9000-2HA00	8WH9003-2HA00	

General accessories, page 14/57 onwards

14

Two-tier terminals

0	Terminal size		
	1.5 mm ²	2.5 mm ²	4 mm ²
Terminal width	4.2 mm	5.2 mm	6.2 mm
O Load current I	17.5 A	26 A	32 A
Operational voltage U	500 V	500 V	500 V
AWG	28 16	28 12	28 10
2 O—O Connection capacity, rigid	0.08 1.5 mm ²	0.08 4 mm ²	0.08 6 mm ²
O Connection capacity, flexible with end sleeve	0.08 1.5 mm ²	0.08 2.5 mm ²	0.08 4 mm ²
Standard	IEC 60947-7-1, IEC 60947-7-2, c ¶1 ∪s, ⑤	IEC 60947-7-1, IEC 60947-7-2, c % Us	IEC 60947-7-1, IEC 60947-7-2, c %
	0.0	0000	
Version Number of poles Terminals Color			D D O

Version	Number of poles	Terminals	Color			
Two-tier terr	minals					
Without	2-pole	4	Gray	8WH2020-0AE00	8WH2020-0AF00	8WH2020-0AG00
equipotential			Blue	8WH2020-0AE01	8WH2020-0AF01	8WH2020-0AG01
bonding		6	Gray	-	8WH2023-0AF00	-
			Blue	-	8WH2023-0AF01	-
With	1-pole	4	Gray	8WH2025-0AE00	8WH2025-0AF00	8WH2025-0AG00
equipotential			Blue	-	8WH2025-0AF01	-
bonding		6	Gray	-	8WH2022-0AF00	-
2 Two-tier terr	minals, N at top and L	at bottom				
Without equipotential bonding	2-pole	4	Gray	-	8WH2020-4CF00	-
PE two-tier t	terminals 1)					
		4	Green-yellow	8WH2020-0CE07	8WH2020-0CF07	8WH2020-0CG07
		6	Green-yellow	-	8WH2023-0CF07	-

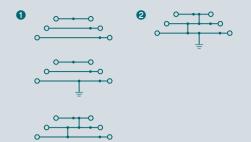
¹⁾ Only top tier can be fitted with connecting combs.

Special accessories

Covers					
	Terminals	Color	Article No.	Article No.	Article No.
	4	Gray	8WH9000-1VA00	8WH9000-1VA00	8WH9003-1VA00
	6	Gray	-	8WH9000-2VA00	-
Compartment partitions					
		Color	Article No.	Article No.	Article No.
		Gray	8WH9070-0BA00	8WH9070-0BA00	8WH9070-0BA00

8WH2 spring-loaded terminals

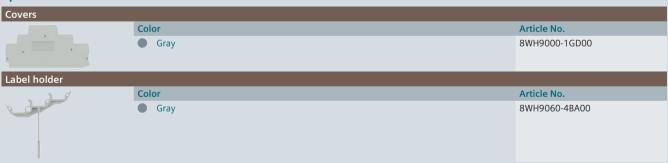
Three-tier terminals



	Terminal size
	2.5 mm ²
Terminal width	5.2 mm
Load current I	28 A 1)
Operational voltage U	500 V
AWG	28 12
Connection capacity, rigid	0.08 4 mm ²
Connection capacity, flexible with end sleeve	0.08 2.5 mm ²
Standard	IEC 60947-7-1, IEC 60947-7-2, c 91 us

Version	Versions	Color						
Three-tier terminals	• Three-tier terminals							
Without equipotential	-	Gray	8WH2030-0AF00					
bonding		Blue	8WH2030-0AF01					
	PE/L/N	Gray	8WH2030-4EF00					
	PE/L/L	Gray	8WH2030-4HF00					
With equipotential bonding		Gray	8WH2035-0AF00					
		Blue	8WH2035-0AF01					
PE three-tier terminals								
		Green-yellow	8WH2035-0CF07					

Special accessories



¹⁾ The total current through all connected conductors must not exceed the maximum load current.

Four-tier motor terminals



Special accessories

Covers			
	Color	Article No.	Article No.
	Gray	8WH9000-1GE00	-

8WH2 spring-loaded terminals

Isolating terminals

لب	Ľ.,	Terminal size	
		2.5 mm ²	4 mm ²
J	Terminal width	5.2 mm	6.2 mm
00***	Load current	16 A	16 A
Y	Y Operational voltage L	400 V	400 V
0000	L-∞ AWG	28 12	28 10
	Connection capacity, rigio	0.08 4 mm ²	0.08 6 mm ²
	Connection capacity, flexible with end sleeve	0.08 2.5 mm ²	0.08 4 mm ²
	Standard	IEC 60947-7-1, c % us	IEC 60947-7-1, c % us
		71, 4-518, IT	
		Constitution of the last of th	

Terminals	Color		
2	● Gray	8WH2000-6AF00	8WH2000-6AG00
3	● Gray	8WH2003-6AF00	-
4	● Gray	8WH2004-6AF00	-

Special accessories

Covers						
		Color	Termir	nals	Article No.	Article No.
		Gray	2		8WH9000-2GA00	-
			3		8WH9000-4GA00	-
			4		8WH9000-5GA00	_
Compartment p	partitions					
		Color	Termir	nals	Article No.	Article No.
		Gray	2		8WH9070-0AA00	8WH9070-0AA00
1/			3		8WH9070-0GA00	-
			4		8WH9070-0HA00	-
Cover segment	S					
	 For covering multi- two-wire terminals 		hen mount	ing		
		Color	Termir	nals	Article No.	Article No.
		Gray	3/4		8WH9000-0GA00	-
Plug-in zone co	nnectors					
	Туре	Color	I _{max}	Illuminated display	Article No.	Article No.
5	Isolating plugs	Orange	20 A	-	8WH9040-0DB04	8WH9040-0DB04
	Through-type connectors	Gray	16 A	-	8WH9020-8AB00	8WH9020-8AB00
	Fused connectors 1)	Black	6.3 A	12 30 V, 1 2.5 mA	8WH9040-3AB08	8WH9040-3AB08
				110 250 V, 0.5 2.5 mA	8WH9040-3CB08	8WH9040-3CB08
93				Without	8WH9040-3DB08	8WH9040-3DB08
	Component connectors	Gray	6 A	-	8WH9040-0BB00	8WH9040-0BB00

The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links. A shift in rated current should therefore be taken into account in such applications.

Isolating blade terminals



Special accessories

Covers					
	Color	Terminals	Article No.	Article No.	Article No.
	Gray	2	8WH9000-2GA00	8WH9000-2GA00	-
		3	8WH9000-4GA00	8WH9000-4GA00	-
		4	8WH9000-5GA00	8WH9000-5GA00	-
Compartment pa	rtitions				
	Color	Terminals	Article No.	Article No.	Article No.
1/	Gray	2	8WH9070-0AA00	8WH9070-0AA00	8WH9070-0AA00
		3	8WH9070-0GA00	8WH9070-0GA00	-
		4	8WH9070-0HA00	8WH9070-0HA00	-
Cover segments					
	Color	Terminals	Article No.	Article No.	Article No.
	● Gray	3/4	8WH9000-0GA00	8WH9000-0GA00	-

¹⁾ On terminals with three and four clamping points, the total current through all connected conductors must not exceed the max. load current.

8WH2 spring-loaded terminals

Fuse terminals



¹⁾ Blade-type fuses must be ordered separately.

Special accessories

Compartment partitions						
	Color	Terminals	Article No.	Article No.	Article No.	
	Gray	2	8WH9070-0AA00	8WH9070-0AA00	8WH9070-0AA00	

14

8WH2 spring-loaded terminals

Diode terminals

2 ••••

Terminal size
2.5 mm²

Terminal width
5.2 mm

Determined by the diode
0.5 A

Operational voltage U
Blocking voltage
AWG
28 ... 12

Connection capacity, rigid
Connection capacity, flexible with end sleeve
Diode
Standard

Terminal size
2.5 mm²

0.04
0.05 A
0.08 ... 4 mm²
0.08 ... 4 mm²
0.08 ... 2.5 mm²
1N 4007, integrated
CTMUS

8WH2003-5DF00

8WH2003-5CF00

Special accessories

Terminals

Covers			
	Color	Terminals	Article No.
	Gray	3	8WH9000-4GA00
Compartment partitio	ns		
	Color	Terminals	Article No.
4	● Gray	3	8WH9070-0GA00
Cover segments			
	For covering multi-wire termina	als when mounting two-wire terminals side-by-side	
	Color	Terminals	Article No.
1	Gray	3	8WH9000-0GA00

Let-through

• From left to right

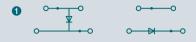
From right to left

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Gray

Gray

Two-tier diode terminals



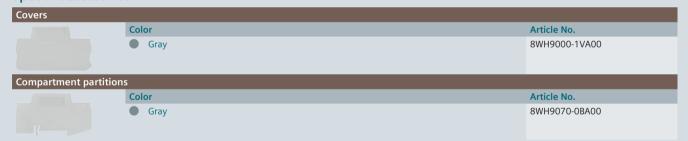
2



	Terminal size
	2.5 mm ²
Terminal width	5.2 mm
Load current	26 A
Uninterrupted limiting current	0.5 A
Operational voltage U	500 V
Blocking voltage	1300 V
AWG	28 12
Connection capacity, rigid	0.08 4 mm ²
Connection capacity, flexible with end sleeve	0.08 2.5 mm ²
Diode	1N 4007, integrated
Standard	c% us
	à î î

		-
Versions	Color	
• With one diode		
Let-through from top to bottom	Gray	8WH2020-5AF00
Let-through from bottom left to bottom right	Gray	8WH2020-5DF00
2 With two diodes		
Let-through from top to bottom left and from bottom right to bottom left	Gray	8WH2020-5KF00
With illuminated display		
15 30 V DC/2.5 7.5 A	Gray	8WH2020-5JF30

Special accessories



8WH5 combination plug-in terminals

Through-type terminals

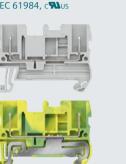




Terminal size 2.5 mm² Terminal width 5.2 mm

Load current 24 A
Operational voltage U 500 V

Standard IEC 61984, c Suus

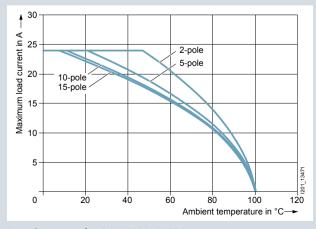


Terminals	Color	Combination plug-in connection
Through-type terminals		
2	Gray	8WH5000-0AF00
	Blue	8WH5000-0AF01
② PE through-type terminals		
2	Green-yellow	8WH5000-0CF07

Special accessories

Covers				
□.	Terminals	Color	Article No.	
	2	Gray	8WH9000-1VA00	
Compartment partition	ons			
	Terminals	Color	Article No.	
	2	Gray	8WH9070-0BA00	

General accessories, page 14/57 onwards



Derating curve for 8WH5000-0AF00

14

Hybrid through-type terminals



	Terminal size
	2.5 mm ²
Terminal width	5.2 mm
Rated current I _n / cross-section	24 A/2.5 mm ²
Rated voltage U _n	500 V
AWG	26 12
Connection capacity, rigid	0.14 4 mm ²
Connection capacity, flexible with end sleeve	0.14 2.5 mm ²
Standard	c %l us

Terminals	Color	iPo plug-in connection and combination plug-in connection
Hybrid through-type terminals		
2	Gray	8WH5100-2PF00
PE hybrid through-type terminals		
2	● Green-yellow	8WH5100-3PF07

Special accessories

Covers				
	Terminals	Color	Article No.	
	2	Gray	8WH9000-1GA00	
Compartment partition	ons			
	Terminals	Color	Article No.	
	4	Gray	8WH9070-0HA00	

8WH5 combination plug-in terminals

8WH9 plugs

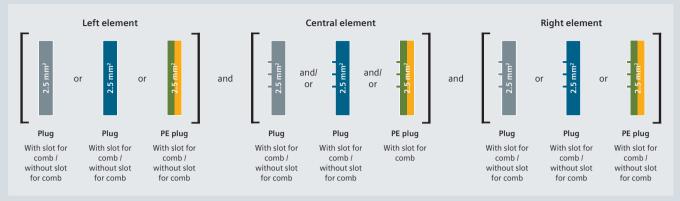


Version	Color	With slot for comb	Without slot for comb
Plug			
Left element	Gray	8WH9040-1DB00	8WH9040-1AB00
	Blue	8WH9040-1DB01	8WH9040-1AB01
Central element	Gray	8WH9040-1EB00	8WH9040-1BB00
	Blue	8WH9040-1EB01	8WH9040-1BB01
Right element	Gray	8WH9040-1FB00	8WH9040-1CB00
	Blue	8WH9040-1FB01	8WH9040-1CB01
PE plugs			
Left element	Green-yellow	8WH9040-1DB07	8WH9040-1AB07
Central element	Green-yellow	8WH9040-1EB07	-
Right element	Green-yellow	8WH9040-1FB07	8WH9040-1CB07

Special accessories

Latches				
R .	Version	Color	Article No.	Article No.
i 🛅	With strain relief	Orange	8WH9050-2BA04	8WH9050-2BA04
	Without strain relief	Orange	8WH9050-2AA04	8WH9050-2AA04
Shielding				
	For connection of s	shielded cables		
also a	Cable diameter	Color	Article No.	Article No.
M	5 10 mm	Black	8WH9120-0DB08	8WH9120-0DB08

Configuration of combination plug



Note:

The configuration concept shown is just one example of how combination plugs can be configured.

8WH3 insulation displacement terminals

Through-type terminals



Terminals	Color			
Through-type terminals				
2	Gray	8WH3000-0AE00	8WH3000-0AF00	
	Blue	8WH3000-0AE01	8WH3000-0AF01	
3	Gray	8WH3003-0AE00	8WH3003-0AF00	
	Blue	8WH3003-0AE01	8WH3003-0AF01	
4	Gray	8WH3004-0AE00	-	
	Blue	8WH3004-0AE01	-	
@ PE through-type terminals				
2	Green-yellow	8WH3000-0CE07	8WH3000-0CF07	
3	Green-yellow	8WH3003-0CE07	8WH3003-0CF07	
4	Green-yellow	8WH3004-0CE07	-	

Special accessories

Covers					
	Terminals	Color		Article No.	Article No.
	2	Gray		8WH9001-1AA00	8WH9000-1AA00
	3	Gray		8WH9001-2AA00	8WH9000-2AA00
	4	Gray		8WH9001-4AA00	-
Compartment partition	ıs				
	Terminals	Color	Thickness	Article No.	Article No.
	2	Gray	2 mm	8WH9070-0JA00	8WH9070-0JA00
	3	Gray	2 mm	8WH9070-0KA00	8WH9070-0KA00
	4	Gray	2 mm	8WH9070-0LA00	-
Cover segments					
	For covering multi-v two-wire terminals s		n mounting		
	Terminals	Color		Article No.	Article No.
	3	Gray		-	8WH9000-0AA00

¹⁾ On terminals with three and four clamping points, the total current through all connected conductors must not exceed the maximum load current.

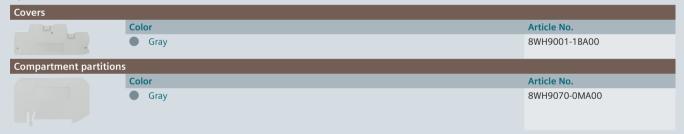
Two-tier terminals



	Terminal size
	1.5 mm ²
Terminal width	5.2 mm
Load current	17.5 A
Operational voltage U	500 V
AWG	24 16
Connection capacity, rigid	0.25 1.5 mm ²
Connection capacity, flexible with end sleeve	0.25 1.5 mm ²
Standard	c % us

Version	Color	Color					
Two-tier terminals							
Without equipotential bonding	Gray	8WH3020-0AE00					
	Blue	8WH3020-0AE01					
9 PE two-tier terminals							
	Green-yellow	8WH3020-0CE07					

Special accessories



8WH3 insulation displacement terminals

Isolating terminals



	Terminal size	
	1.5 mm ²	2.5 mm ²
Terminal width	5.2 mm	6.2 mm
Load current	16 A	16 A
Operational voltage U	400 V	400 V
AWG	24 16	20 14
Connection capacity, rigid	0.25 1.5 mm ²	0.5 2.5 mm ²
Connection capacity, flexible with end sleeve	0.25 1.5 mm ²	0.5 2.5 mm ²
Standard	c % us	C ₹ LUS

Terminals	Color		
2	Gray	8WH3000-6AE00	8WH3000-6AF00

Special accessories

Covers						
		Color			Article No.	Article No.
		Gray			8WH9001-2AA00	8WH9000-2AA00
Compartment pa	rtitions					
		Color			Article No.	Article No.
		Gray			8WH9070-0KA00	8WH9070-0KA00
Plug-in zone con	nectors					
	Туре	Color	I _{max}	Illuminated display	Article No.	Article No.
	Isolating plugs	Orange	-	-	8WH9040-0DB04	8WH9040-0DB04
	Through-type connectors	Gray	16 A	-	8WH9020-8AB00	8WH9020-8AB00
	Fused connectors 1)	Black	6.3 A	12 30 V, 1 2.5 mA	8WH9040-3AB08	8WH9040-3AB08
				110 250 V, 0.5 2.5 mA	8WH9040-3CB08	8WH9040-3CB08
april 1				Without	8WH9040-3DB08	8WH9040-3DB08
99	Component connectors	Gray	6 A	-	8WH9040-0BB00	8WH9040-0BB00

The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links.
A shift in rated current should therefore be taken into account in such applications.

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Through-type terminals





Terminal width
Max. load current I _{max}
Rated voltage U.

AWG

Connection capacity, one rigid conductor Connection capacity, two rigid conductors Connection capacity, one flexible conductor with end sleeve Connection capacity, two flexible conductors with end sleeve

> **Tightening torque** Standard

	Terminal size	
	2.5 mm²	4 mm ²
ı	5.2 mm	6.2 mm
x	32 A	41 A
n	1000 V	1000 V
ì	26 12	26 10
r	0.14 4 mm ²	0.14 6 mm ²
S	0.14 1.5 mm ²	0.14 1.5 mm ²
9	0.14 4 mm ²	0.14 6 mm ²
9	0.14 1.5 mm ²	0.14 1.5 mm ²
9	0.6 0.8 Nm	0.6 0.8 Nm
ł	IEC 60947-7-1,	IEC 60947-7-1,
	IFC 60947-7-2 CS IIIC @	IFC 60947-7-2 calus @





Terminals	Color								
Through-type terminals									
2	Gray	8WH1000-0AF00	8WH1000-0AG00						
	Blue	8WH1000-0AF01	8WH1000-0AG01						
	Orange	8WH1000-0AF04	8WH1000-0AG04						
	Red	8WH1000-0AF02	8WH1000-0AG02						
	Black	8WH1000-0AF08	8WH1000-0AG08						
	Green	8WH1000-0AF03	-						
	Yellow	8WH1000-0AF06	-						
② PE through-type terminals									
2	Green-yellow	8WH1000-0CF07	8WH1000-0CG07						

Special accessories

Covers									
	Width	Color	Article No.	Article No.					
D SO OFFICER	2.2 mm	● Gray	8WH9000-1PA00	8WH9000-1PA00					
Compartment partitions									
	Thickness	Color	Article No.	Article No.					
	2 mm	● Gray	8WH9070-6BA00	8WH9070-6BA00					
Reducing combs									
	Version	Color	Article No.	Article No.					
п	From screw to screw	Turquoise	-	-					
V	From screw to spring	Turquoise	-	-					
Warning covers for	8WH1								
	Image	Color	Article No.	Article No.					
* * * * * * * *	Lightning symbol	Yellow	8WH9060-5BA06	8WH9063-5BA06					

6 mm ²	10 mm²	16 mm²	35 mm²	
8.2 mm	10.2 mm	12.2 mm	16 mm	16 mm
57 A	76 A	101 A	150 A	_
1000 V	1000 V	1000 V	1000 V	_
24 8	20 6	16 4	16 1/0	16 2
0.2 10 mm ²	0.5 16 mm ²	1.5 25 mm ²	1.5 50 mm ²	1.5 35 mm ²
0.2 2.5 mm ²	0.5 4 mm ²	1 6 mm ²	1.5 16 mm ²	1.5 16 mm ²
0.2 10 mm ²	0.5 16 mm ²	1.5 25 mm ²	1.5 50 mm ²	1.5 35 mm ²
0.2 2.5 mm ²	0.5 4 mm ²	1 6 mm ²	1.5 10 mm ²	1.5 10 mm ²
1.5 1.8 Nm	1.6 1.8 Nm	2.5 3.0 Nm	3.2 3.7 Nm	3.2 3.7 Nm
IEC 60947-7-1,	IEC 60947-7-1,	IEC 60947-7-1,	IEC 60947-7-1,	IEC 60947-7-1,
IEC 60947-7-2, c 91 us, @	IEC 60947-7-2, c % us, ®	IEC 60947-7-2, c % us, ®	IEC 60947-7-2, c 91 us, ©	IEC 60947-7-2, c % us, ©
8WU11000 0AU00	934111000 04100	8WII1000 0AKOO	9WU11000 0AM00	
8WH1000-0AH00	8WH1000-0AJ00	8WH1000-0AK00	8WH1000-0AM00	-
8WH1000-0AH01	8WH1000-0AJ01	8WH1000-0AK01	8WH1000-0AM01	_
-	-		_	
8WH1000-0AH02	-	_	-	
8WH1000-0AH08	-		-	
-	-		-	
-	-	-	-	-
8WH1000-0CH07	8WH1000-0CJ07	8WH1000-0CK07	-	8WH1000-0CM07
Article No.	Article No.	Article No.	Article No.	Article No.
8WH9000-1PA00	8WH9000-1PA00	8WH9076-1PA00	-	-
Audula Na	Autolo No.	Autista Na	Audi-I- Ni-	Autinto No.
Article No.	Article No.	Article No.	Article No.	Article No.
Article No. 8WH9070-6BA00	Article No. 8WH9070-6BA00	Article No.	Article No.	Article No.
		Article No.	Article No.	Article No. –
		Article No. - Article No.	Article No. Article No.	Article No. - Article No.
8WH9070-6BA00	8WH9070-6BA00		-	-
8WH9070-6BA00 Article No.	8WH9070-6BA00 Article No.	- Article No.	- Article No.	- Article No.
8WH9070-6BA00 Article No. 8WH9002-8AC10	8WH9070-6BA00 Article No. 8WH9002-8CC10	Article No. 8WH9002-8EC10	- Article No. 8WH9002-8GC10	Article No. 8WH9002-8GC10
8WH9070-6BA00 Article No. 8WH9002-8AC10	8WH9070-6BA00 Article No. 8WH9002-8CC10	Article No. 8WH9002-8EC10	- Article No. 8WH9002-8GC10	Article No. 8WH9002-8GC10
8WH9070-6BA00 Article No. 8WH9002-8AC10 8WH9002-8BC10	8WH9070-6BA00 Article No. 8WH9002-8CC10 8WH9002-8DC10	Article No. 8WH9002-8EC10 8WH9002-8FC10		Article No. 8WH9002-8GC10 8WH9002-8HC10
8WH9070-6BA00 Article No. 8WH9002-8AC10 8WH9002-8BC10 Article No.	8WH9070-6BA00 Article No. 8WH9002-8CC10 8WH9002-8DC10 Article No.	Article No. 8WH9002-8EC10 8WH9002-8FC10 Article No.		Article No. 8WH9002-8GC10 8WH9002-8HC10 Article No.

Through-type terminals for high-current applications



Special accessories

Tap-off terminal						
	smaller cros overload ar	g a tap-off with a ss-section, observe the nd short-circuit strength VDE 0100 Part 430				
The second secon	I _{max}	Cross-section	Article No.	Article No.	Article No.	Article No.
	57 A	10 mm ²	8WH9120-0AA00	8WH9120-0BA00	8WH9120-0CA00	8WH9120-0CA00
Insertion profiles						
		he prismatic sleeve using flat conductors				
			Article No.	Article No.	Article No.	Article No.
			8WH9020-3MA00	8WH9020-3NA00	8WH9020-3PA00	8WH9020-3PA00
Combs						
d	Fully insulated, fitted in the clamping sleeve and latched with the terminal enclosure					
	I _{max}	Number of poles	Article No.	Article No.	Article No.	Article No.
	232 A	2-pole	-	8WH9020-3AA00	8WH9020-3CA00	-
		3-pole	-	8WH9020-3BA00	8WH9020-3DA00	-
	320 A	2-pole	-	-	-	8WH9020-3EA00
		3-pole	_	-	-	8WH9020-3FA00
Permanent links						
	For cross lirScrew headRemove par	ls with insulating collar				
	I _{max}	Number of poles	Article No.	Article No.	Article No.	Article No.
	150 A	2-pole	8WH9020-6HC00	-	-	-
111 111		3-pole	8WH9020-6HD00	_	-	-

Two-tier terminals



Special accessories

Covers				
	Width	Color	Article No.	Article No.
	2.2 mm	● Gray	8WH9000-1QA00	8WH9000-1QA00
Compartment partit	ions			
	Thickness	Color	Article No.	Article No.
	2 mm	● Gray	8WH9070-6FA00	8WH9070-6FA00
Spacer plates				
	 Compensates for tier offset if ot 	her terminals are mounted side by side		
0.	Thickness	Color	Article No.	Article No.
	2.5 mm	Gray	8WH9160-0AA00	8WH9160-0AA00

8WH1020-0CF07

Green-yellow

General accessories, page 14/57 onwards

8WH1020-0CG07

Isolating terminals



Terminal size 4 mm² 6 mm² Terminal width 6.2 mm 8.2 mm Max. load current I_{max} 20 A 20 A Rated voltage U_n 400 V 500 V **AWG** 26 ... 10 24 ... 8 Connection capacity, one rigid conductor 0.14 ... 6 mm² 0.2 ... 10 mm² Connection capacity, two rigid conductors 0.14 ... 1.5 mm² 0.2 ... 2.5 mm² Connection capacity, one flexible conductor with end sleeve 0.14 ... 6 mm² 0.2 ... 10 mm² Connection capacity, two flexible conductors with end sleeve 0.14 ... 1.5 mm² 0.2 ... 2.5 mm² 1.5 ... 1.8 Nm Tightening torque 0.6 ... 0.8 Nm Standard c \$\subseteq \usepartus, & c**%**us

Terminals	Color		
2	Gray	8WH1000-6AG00	8WH1000-6AH00

Special accessories

Plug-in zone conne	ectors						
	Туре	Col	or	I _{max}	Illuminated display	Article No.	Article No.
	Isolating plugs	•	Orange	-	-	8WH9040-0DB04	8WH9040-0DB04
	Through-type connectors	•	Gray	16 A	-	8WH9020-8AB00	8WH9020-8AB00
	Fused connectors 1)		Black	6.3 A	12 30 V, 1 2.5 mA	8WH9040-3AB08	8WH9040-3AB08
					110 250 V, 0.5 2.5 mA	8WH9040-3CB08	8WH9040-3CB08
cp1					Without	8WH9040-3DB08	8WH9040-3DB08
THE STATE OF THE S	Component	•	Gray	6 A	-	8WH9040-0BB00	8WH9040-0BB00

The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heat rise conditions in closed fuse holders must be tested. Higher ambient temperatures represent an additional load for the fuse links.
A shift in rated current should therefore be taken into account in such applications.

Isolating blade terminals



Terminal size
4 mm²
6.2 mm

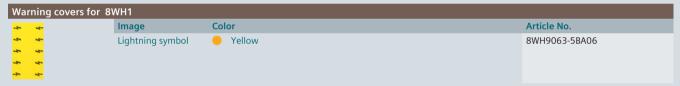
Max. load current I_{max}
Rated voltage U_n
AWG
Connection capacity, one rigid conductor
Connection capacity, two rigid conductors
Connection capacity, two rigid conductors
Connection capacity, two flexible conductor with end sleeve
Tightening torque
Standard

Standard

Terminal size
4 mm²
20 A
500 V
26 ... 12
0.14 ... 4 mm²
0.14 ... 1.5 mm²
0.14 ... 1.5 mm²
0.6 ... 0.8 Nm
CNAUS, ®

Terminals	Color	
2	● Gray	8WH1000-6CG00

Special accessories



14

8WH1 screw terminals

Two-tier terminals with isolating function

• J L	Terminal size	
00	4 mm ²	
Terminal width	6.2 mm	6.2 mm
Max. load current I _{max}	38 A	38 A
Rated voltage U _{max}	500 V	500 V
O→→O	26 10	26 10
Connection capacity, one rigid conductor	0.14 6 mm ²	0.14 6 mm ²
Connection capacity, two rigid conductors	0.14 1.5 mm ²	0.14 1.5 mm ²
Connection capacity, one flexible conductor with end sleeve	0.14 6 mm ²	0.14 6 mm ²
Connection capacity, two flexible conductors with end sleeve	0.14 1.5 mm ²	0.14 1.5 mm ²
Tightening torque	0.6 0.8 Nm	0.6 0.8 Nm
Standard	c ¶ us, ®	₹ 105, ®

Version	Color		
• Isolating terminal			
Isolating terminal in the upper tier	Gray	8WH1020-6AG00	-
9 Isolating blade			
Isolating blade in the upper tier	Gray	_	8WH1020-6AC00

Special accessories



Measuring transformer isolating terminals

0			Terminal size	
	→		6 mm²	
		Terminal width	8.2 mm	8.2 mm
		Rated uninterrupted current I _u	41 A	41 A
2	0 0	Rated insulation voltage U _i	500 V	800 V
		AWG	24	8
		Connection capacity, rigid	0.5 10 mm ²	0.5 10 mm ²
		Connection capacity, flexible with end sleeve	0.5 6 mm ²	0.5 6 mm ²
		Disconnect slide tightening torque	0.6 0.8 Nm	-
		Tightening torque	1.5 1.6 Nm	1.5 1.6 Nm
		Standard	c% us, ®	c ₹1 us , ⑤

Terminals	Color		
• Isolating terminals			
2 recesses for screwing in the test sockets	Gray	8WH1000-7AH00	-
Through-type terminals with identical contour			
2 recesses for screwing in the test sockets	Gray	-	8WH1000-7BH00

Special accessories

Covers					
	Width		Color	Article No.	Article No.
	2.2 mm		Gray	8WH9000-3UA00	8WH9000-3UA00
Disconnecting links					
	For bridging two adjacent terCannot be used with the bare		est socket		
U VU	Tightening torque	Number of poles	Color	Article No.	Article No.
<u> </u>	0.6 0.8 Nm	2-pole	Gray	8WH9021-0AC00	8WH9021-0AC00
Connecting combs, s					
	 Consisting of connection wire For bridging terminals, the co Cannot be used with the bare 	nnection wire is adj	ustable		
	Tightening torque	Number of poles	Color	Article No.	Article No.
	0.6 0.8 Nm	10-pole	Gray	8WH9021-0AL00	8WH9021-0AL00
Short-circuiting plug	s, fully insulated				
	 For short-circuiting adjacent For simple transformer meas Required when the bare 8WH the measuring transformer to 	urements 19010-0MB12 test ac	dapter is used in		
A A	I _{max}	Number of poles		Article No.	Article No.
	20 A	2-pole	Black	8WH9010-0BC08	8WH9010-0BC08
Test sockets, insulat					
	 For screwing into the measur The 8WH9021-0AC00 discon short-circuiting adjacent term 	necting link shall be			
	Tightening torque		Color	Article No.	Article No.
	0.6 0.8 Nm		Green	8WH9010-0MB03	8WH9010-0MB03
II .			Violet	8WH9010-0MB11	8WH9010-0MB11
			Yellow	8WH9010-0MB06	8WH9010-0MB06
Test sockets, bare					
	 For screwing into the measur For simple transformer measure For tapping with test plug The 8WH9010-0BC08 short-cshort-circuiting adjacent term 	urements ircuiting plug shall b			
	Tightening torque			Article No.	Article No.
	0.6 0.8 Nm			8WH9010-0MB12	8WH9010-0MB12

Fuse terminals





Terminal width 6.2 mm Max. load current I_{max} 6.3 A

Rated voltage U_n 500 V

Connection capacity, one rigid conductor 0.14 ... 6 mm² Connection capacity, two rigid conductors 0.14 ... 1.5 mm² Connection capacity, one flexible conductor with end sleeve 0.14 ... 6 mm²

Standard c Suus, @

Terminal size 4 mm² 6 mm² 8.2 mm 10 A 630 V **AWG** 26 ... 10 24 ... 8 0.2 ... 10 mm² 0.2 ... 2.5 mm² 0.2 ... 10 mm² 0.2 ... 2.5 mm² Connection capacity, two flexible conductors with end sleeve 0.14 ... 1.5 mm² 1.5 ... 1.8 Nm Tightening torque 0.6 ... 0.8 Nm c**%**us, **⊚**





LED	Color		
For 5 × 20 mm G fuse links			
• Without	Black	8WH1000-1GG08	-
AC/DC with LED 10 30 V	Black	8WH1000-1KG38	-
AC/DC with LED 110 250 V	Black	8WH1000-1MG88	-
For 6.3 × 32 mm G fuse links (inch fuses)			
• Without	Black	-	8WH1000-1HH08
AC/DC with LED 12 30 V	Black	_	8WH1000-1PH38

Special accessories

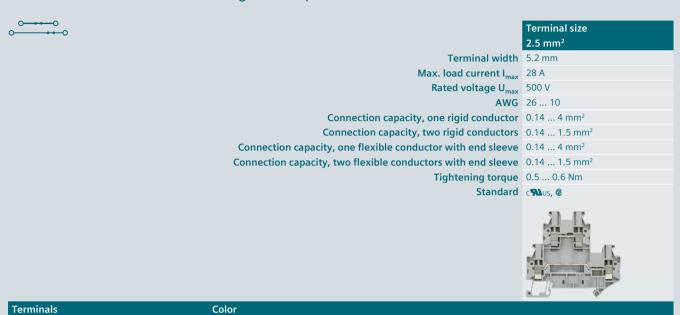
Re	ducing comb	s
F		
V		

•	For connecting terminals from terminal size 6 mm ² to 2.5 mm ² or 4 mm ²

Version	Color	Article No.	Article No.
From screw to screw	Turquoise	-	8WH9002-8AC10

8WH1020-5LF00

Two-tier terminals for soldering of components 1)



Special accessories

Width	Color	Article No.
2.2 mm	● Gray	8WH9000-1QA00
ons		
Thickness	Color	Article No.
2 mm	● Gray	8WH9070-6FA00
Compensates for tie	er offset if other terminals are mounted side by side	
Thickness	Color	Article No.
2.5 mm	● Gray	8WH9160-0AA00
	2.2 mm Thickness 2 mm Compensates for tien Thickness	2.2 mm Gray Thickness Color 2 mm Gray • Compensates for tier offset if other terminals are mounted side by side Thickness Color

General accessories, page 14/57 onwards

Gray

¹⁾ Supplied without components; the appropriate components (resistors, diodes, capacitors, ...) are to be soldered in by user

Diode terminals

0 •••••

2 ••••

Terminal size
4 mm²
Terminal width 6.2 mm

Uninterrupted limiting current 0.5 A
Rated insulation voltage U_i 800 V

Blocking voltage 1300 V

AWG 26 ... 10

Connection capacity, one rigid conductor 0.14 ... 6 mm²

Connection capacity, two rigid conductors 0.14 ... 1.5 mm²

Connection capacity, one flexible conductor with end sleeve 0.14 ... 6 mm²

Connection capacity, two flexible conductors with end sleeve 0.14 ... 1.5 mm²

Tightening torque 0.6 ... 0.8 Nm

Diode 1N 4007, integrated

Standard c Sus, @

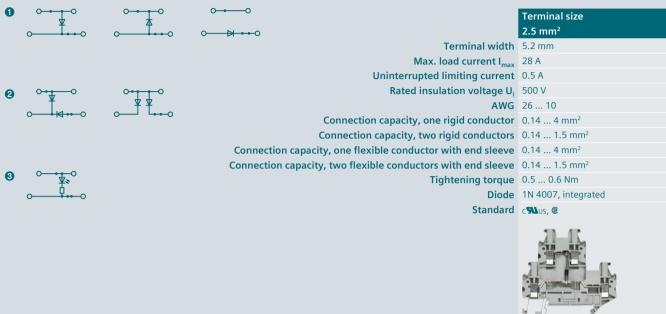


Let-through	Color	
From left to right	● Gray	8WH1000-6LG00
From right to left	Gray	8WH1000-6KG00

Special accessories

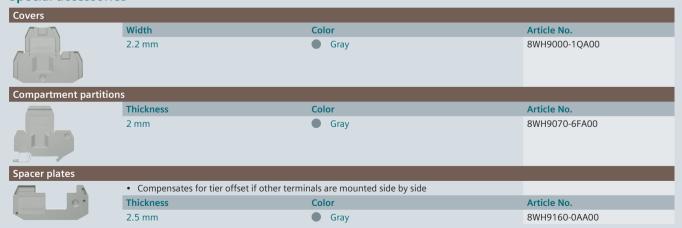
Covers			
	Width	Color	Article No.
	2.2 mm	● Gray	8WH9000-2PA00
Warning covers			
* *	Image	Color	Article No.
~ ~	Lightning symbol	Yellow	8WH9063-5BA06
~ ~			
* *			
4			

Two-tier diode terminals



Versions	LED	Color	
With one diode			
Let-through from top to bottom		Gray	8WH1020-5AF00
Let-through from bottom to top		● Gray	8WH1020-5BF00
Let-through from bottom left to bottom right		Gray	8WH1020-5DF00
2 With two diodes			
Let-through from top to bottom left and from bottom right to bottom left		Gray	8WH1020-5FF00
Let-through from top to bottom left and from top to bottom right		Gray	8WH1020-5HF00
With illuminated display			
Let-through from top to bottom	24 V DC	● Gray	8WH1020-5JF30

Special accessories



Shield terminals



Special accessories

Support brackets						
	Version		Article No.	Article No.	Article No.	Article No.
h	Made of molded placed conductive connective retaining screw		8WH9140-0DA00	8WH9140-0DA00	8WH9140-0DA00	8WH9140-0DA00
	For mounting rail v of approx. 30 mm t		8WH9140-0BA00	8WH9140-0BA00	8WH9140-0BA00	-
	For mounting rail with clearance of approx. 65 mm to the busbar		8WH9140-0CA00	8WH9140-0CA00	8WH9140-0CA00	-
N busbars, 10 × 3 mm						
	Version	Length	Article No.	Article No.	Article No.	Article No.
	Copper, tinned	1000 mm	8WA2842	8WA2842	8WA2842	8WA2842

Accessories for 8WH terminal blocks

Individual labeling system

Labeling systems for

- Terminal blocks
- Modular installation devices
- Circuit breakers
- Switch disconnectors

The inscription labels can be inscribed with Murrplastik labeling systems or by hand.

The WIN designation facilitates assignment in the inscription software.

Labeling systems available from:

Murrplastik Systemtechnik GmbH Postfach 1143

D-71570 Oppenweiler Telephone: 07191-482-0 email: info@murrplastik.de

alı lahala					
nk labels	Version	Terminal width	Designation	Color	Article No.
	Front	3.5 mm	WIN 97	White	8WH8112-0AA05
		4.2 mm	WIN 97	White	8WH8112-1AA05
		5.2 and 6.2 mm	WIN 88	White	8WH8112-2AA05
		8.2, 10, 12 and 16 mm	WIN 40	White	8WH8112-4AA05
	Flat	3.5 mm	WIN 97	White	8WH8113-0AA05
		4.2 mm	WIN 180	White	8WH8113-1AA05
		5.2 mm	WIN 182	White	8WH8113-1AA05
		6.2 mm	WIN 184	White	8WH8113-1AA05
		8.2 mm	WIN 186	White	8WH8113-1AA05
		10 mm	WIN 188	White	8WH8113-1AA05
		12 and 16 mm	WIN 46Z	White	8WH8113-6AA05
-on device l	abels				
	For identification	n of, e.g. circuit breakers, contacto	ors and control systems		
	Version		Designation	Color	Article No.
	20 × 7 mm, snap-	on hooks at side	WIN 95	White	8WH8210-0AA55
NSHO_00038	20 × 7 mm, snap-	on hooks at side	WIN 95	Turquoise	8WH8210-0AA56
sive device	labels				
	 For identification 	n of, e.g. modular installation devi	ices and switch disconn	ectors	
	Versions		Designation	Color	Article No.
	15 × 6 mm		WIN 098	White	8WH8210-0AA35
			WIN 099	Yellow	8WH8210-0AA36
	19 × 8 mm		WIN 088	White	8WH8210-0AA45
			WIN 082	Yellow	8WH8210-0AA46

Accessories for 8WH terminal blocks

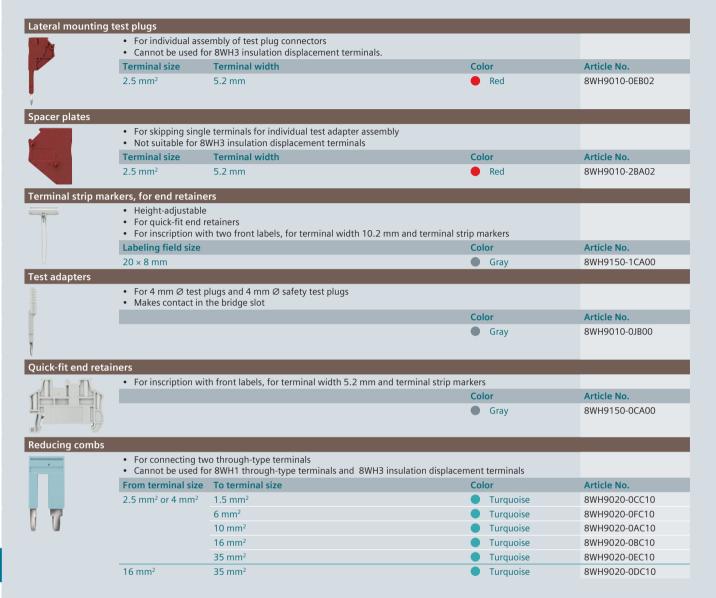
Standard labeling system

			Terminal size	1.5 mm ²	2.5 mm ²
				4.2 mm / 5.2 mm (8WH3)	5.2 mm / 6.2 mm (8WH3)
Front				, , , , , , , , , , , , , , , , , , , ,	
Front	Text alignment	Inscription	Inscription	Article No.	Article No.
	Vertical	Consecutive numbering		8WH8120-1AB05	8WH8120-2AB05
1 2 3 4 5 6 7 8 9 10	vertical	consecutive numbering	11 20 (10×)	8WH8120-1AB15	8WH8120-2AB15
			21 30 (10×)	8WH8120-1AB25	8WH8120-2AB25
			31 40 (10×)	8WH8120-1AB35	8WH8120-2AB35
			41 50 (10×)	8WH8120-1AB45	8WH8120-2AB45
			51 60 (10×)	8WH8120-1AB55	8WH8120-2AB55
			61 70 (10×)	8WH8120-1AB65	8WH8120-2AB65
			71 80 (10×)	8WH8120-1AB75	8WH8120-2AB75
			81 90 (10×)	8WH8120-1AB85	8WH8120-2AB85
			91 100 (10×)	8WH8120-1AC05	8WH8120-2AC05
		L1, L2, L3, N, PE	-		8WH8120-2AC03
		U, V, W, N, grounding	_	_	-
		Custom inscription	_	8WH8120-1XA05-Z Y01	8WH8120-2XA05-Z Y01
	Horizontal	Consecutive numbering	1 10 (10~)	8WH8140-1AB05	8WH8140-2AB05
1 2	Horizontal	consecutive numbering	11 20 (10×)	8WH8140-1AB15	8WH8140-2AB15
3			21 30 (10×)	8WH8140-1AB25	8WH8140-2AB25
4			31 40 (10×)	8WH8140-1AB35	8WH8140-2AB35
5			41 50 (10×)	_	8WH8140-2AB45
6 7			51 60 (10×)		8WH8140-2AB55
8			61 70 (10×)		8WH8140-2AB55
9			71 80 (10×)		8WH8140-2AB05
10			81 90 (10×)	_	8WH8140-2AB75
			91 100 (10×)	_	8WH8140-2AC05
		Custom inscription	91 100 (10x)	8WH8140-1XA05-Z Y01	8WH8140-2XA05-Z Y01
	Blank	Custom inscription		8WH8110-1AA05	8WH8110-2AA05
	Diam			OWIIOTTO-TANOS	OWN 10 27 V 103
	Diarin			OWN OF TO-TANOS	SM10110 27005
Flat	Bidilik			SWIIGTIO-IAAGS	OMIGNIO ZIVIOS
Flat	Text alignment	Inscription	Inscription	Article No.	Article No.
	_	Inscription Consecutive numbering	•		Article No. 8WH8121-2AB05
Flat 1 2 3 4 5 6 7 8 9 10	Text alignment		•	Article No.	Article No.
	Text alignment		1 10 (10×)	Article No. 8WH8121-1AB05	Article No. 8WH8121-2AB05
	Text alignment		1 10 (10×) 11 20 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15	Article No. 8WH8121-2AB05 8WH8121-2AB15
	Text alignment		1 10 (10×) 11 20 (10×) 21 30 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25
	Text alignment		1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35
	Text alignment		1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45
	Text alignment		1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55
	Text alignment		1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 -	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB65
	Text alignment		1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 -	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB55 8WH8121-2AB65
	Text alignment		1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 81 90 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 -	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB65 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB85
1 2 3 4 5 6 7 8 9 10	Text alignment	Consecutive numbering	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 81 90 (10×) 91 100 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB85 8WH8121-2AB85
1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 81 90 (10×) 91 100 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB65 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB85 8WH8121-2AB85 8WH8121-2AB85
1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 81 90 (10×) 91 100 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB65 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB85 8WH8121-2AC05 8WH8121-2XO5-Z YO1 8WH8141-2AB05
1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 81 90 (10×) 91 100 (10×) - 1 10 (10×) 11 20 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB75 8WH8121-2AC05 8WH8121-2XA05-Z Y01 8WH8141-2AB05 8WH8141-2AB15
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 81 90 (10×) 91 100 (10×) - 1 10 (10×) 11 20 (10×) 21 30 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15 8WH8141-1AB25	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB85 8WH8121-2AC05 8WH8121-2XA05-Z Y01 8WH8141-2AB05 8WH8141-2AB15 8WH8141-2AB25
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 91 100 (10×) - 1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15 8WH8141-1AB35	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB75 8WH8121-2AC05 8WH8121-2XO5-Z Y01 8WH8141-2AB05 8WH8141-2AB15 8WH8141-2AB35
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 81 90 (10×) 91 100 (10×) - 1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15 8WH8141-1AB35	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB75 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 71 80 (10×) 91 100 (10×) - 1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15 8WH8141-1AB35	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB75 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AC05 8WH8141-2AB05 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 81 90 (10×) 91 100 (10×) - 1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15 8WH8141-1AB35	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AB75 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 81 90 (10×) 91 100 (10×) - 1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15 8WH8141-1AB35	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB55 8WH8121-2AB55 8WH8121-2AB55 8WH8121-2AB55 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AC05 8WH8141-2AB55
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Consecutive numbering Custom inscription	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 81 90 (10×) 91 100 (10×) - 1 10 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 81 90 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB15 8WH8141-1AB35	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AC05 8WH8141-2AB05 8WH8141-2AB5 8WH8141-2AB5 8WH8141-2AB5 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55 8WH8141-2AB55
1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10	Text alignment Vertical	Custom inscription Consecutive numbering	1 10 (10×) 11 20 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 81 90 (10×) 91 100 (10×) - 1 10 (10×) 21 30 (10×) 31 40 (10×) 41 50 (10×) 51 60 (10×) 61 70 (10×) 81 90 (10×)	Article No. 8WH8121-1AB05 8WH8121-1AB15 8WH8121-1AB25 8WH8121-1AB35 8WH8121-1AB45 8WH8121-1AB55 8WH8121-1XA05-Z Y01 8WH8141-1AB05 8WH8141-1AB35 8WH8141-1AB45	Article No. 8WH8121-2AB05 8WH8121-2AB15 8WH8121-2AB25 8WH8121-2AB35 8WH8121-2AB45 8WH8121-2AB55 8WH8121-2AB55 8WH8121-2AB65 8WH8121-2AB75 8WH8121-2AC05 8WH8121-2AC05 8WH8121-2AC05 8WH8141-2AB5 8WH8141-2AB5

4 mm²	6 mm ²	10 and 16 mm ²	35 mm ²
6.2 mm	8.2 mm	10 and 12 mm	16 mm
Article No.	Article No.	Article No.	Article No.
8WH8120-3AB05	8WH8120-4AB05	8WH8120-5AB05	-
8WH8120-3AB15	8WH8120-4AB15	8WH8120-5AB15	-
8WH8120-3AB25	8WH8120-4AB25	8WH8120-5AB25	-
8WH8120-3AB35	8WH8120-4AB35	8WH8120-5AB35	-
8WH8120-3AB45	8WH8120-4AB45	-	-
8WH8120-3AB55	8WH8120-4AB55	-	-
8WH8120-3AB65	8WH8120-4AB65	-	-
8WH8120-3AB75	8WH8120-4AB75	_	-
8WH8120-3AB85	8WH8120-4AB85	-	-
8WH8120-3AC05	8WH8120-4AC05	_	-
8WH8120-3AA15	8WH8120-4AA15	8WH8120-5AA15	8WH8120-7AA15
_	-	8WH8120-5AA25	-
8WH8120-3XA05-Z Y01	8WH8120-4XA05-Z Y01	8WH8120-5XA05-Z Y01	8WH8120-7XA05-Z Y01
8WH8140-3AB05	8WH8140-4AB05	8WH8140-5AB05	-
8WH8140-3AB15	8WH8140-4AB15	8WH8140-5AB15	-
8WH8140-3AB25	8WH8140-4AB25	8WH8140-5AB25	-
8WH8140-3AB35	-	8WH8140-5AB35	-
8WH8140-3AB45	-	_	-
8WH8140-3AB55	-	-	-
8WH8140-3AB65	-	_	_
8WH8140-3AB75	_	_	_
8WH8140-3AB85	-	_	_
8WH8140-3AC05	_	_	_
8WH8140-3XA05-Z Y01	8WH8140-4XA05-Z Y01	8WH8140-5XA05-Z Y01	8WH8140-7XA05-Z Y01
8WH8110-3AA05	8WH8110-4AA05	8WH8110-5AA05	8WH8110-7AA05
Article No.	Article No.	Article No.	Article No.
8WH8121-3AB05	8WH8121-4AB05	8WH8121-5AB05	-
8WH8121-3AB15	8WH8121-4AB15	8WH8121-5AB15	-
8WH8121-3AB25	8WH8121-4AB25	8WH8121-5AB25	-
8WH8121-3AB35	_	_	_
8WH8121-3AB45	_	_	_
8WH8121-3AB55	_	-	-
8WH8121-3AB65	_	_	_
8WH8121-3AB75	-	-	_
	-	_	_
8WH8121-3AR85			
8WH8121-3AB85 8WH8121-3AC05	_	_	_
8WH8121-3AC05	-	- 8WH8121-5XA05-7 V01	-
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01	- 8WH8121-5XA05-Z Y01 8WH8141-5AR05	-
8WH8121-3AC05	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05	8WH8141-5AB05	-
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15		- - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05	8WH8141-5AB05	- - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15	8WH8141-5AB05	- - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15	8WH8141-5AB05	- - - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15	8WH8141-5AB05	- - - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15	8WH8141-5AB05	- - - - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15	8WH8141-5AB05	- - - - - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15	8WH8141-5AB05	- - - - - - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01 8WH8141-3AB05	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15 8WH8141-4AB25	8WH8141-5AB05	- - - - - - - - -
8WH8121-3AC05 8WH8121-3XA05-Z Y01	- 8WH8121-4XA05-Z Y01 8WH8141-4AB05 8WH8141-4AB15	8WH8141-5AB05	- - - - - - - - - -

Accessories for 8WH terminal blocks

Mounting accessories



Connecting combs	;					
	Terminal size	Terminal width	Max. load current I _{max}	Used for 8WH3	Number of poles	Article No.
	1.5 mm ²	4.2 mm	17.5 A	Cannot be used	2-pole	8WH9020-6AC10
					3-pole	8WH9020-6AD10
T T					4-pole	8WH9020-6AE10
1 1					5-pole	8WH9020-6AF10
A A					10-pole	8WH9020-6AL10
					20-pole	8WH9020-6AS10
	2.5 mm ²	5.2 mm	24 A	Can be used for	2-pole	8WH9020-6BC10
				terminal size	3-pole	8WH9020-6BD10
				1.5 mm ²	4-pole	8WH9020-6BE10
					5-pole	8WH9020-6BF10
					10-pole	8WH9020-6BL10
					20-pole	8WH9020-6BS10
					50-pole	8WH9020-6BT10
	4 mm ²	6.2 mm	32 A	Can be used for	2-pole	8WH9020-6CC10
				terminal size 2.5 mm ²	3-pole	8WH9020-6CD10
					4-pole	8WH9020-6CE10
					5-pole	8WH9020-6CF10
					10-pole	8WH9020-6CL10
					20-pole	8WH9020-6CS10
					50-pole	8WH9020-6CT10
	6 mm ²	8.2 mm	41 A	Cannot be used	2-pole	8WH9020-6DC10
					3-pole	8WH9020-6DD10
					4-pole	8WH9020-6DE10
					5-pole	8WH9020-6DF10
					10-pole	8WH9020-6DL10
	10 mm ²	10 mm	57 A	Cannot be used	2-pole	8WH9020-6EC10
	16 mm ²	12 mm	76 A	Cannot be used	2-pole	8WH9020-6FC10
	35 mm ²	16 mm	101 A	Cannot be used	2-pole	8WH9020-6GC10
Screwdrivers						
A	Variant					Article No.
₩	0.4 × 2.5 mm					8WH9200-0AA00
1	0.6 × 3.5 mm					8WH9200-0AB00
	0.8 × 4.0 mm					8WH9200-0AC00
	1.0 × 5.5 mm					8WH9200-0AD00
I						

Through-type terminals



	Tomological stars	
	Terminal size 2.5 mm ²	4 mm²
Terminal width, through-type terminal		6.5 mm
Terminal width, PE/PEN through-type terminal	6 mm	7.2 mm
3-pole terminal block width	18 mm	19.5 mm
10-pole terminal block width	61 mm	65.5 mm
Rated uninterrupted current I _u	24 A	32 A
Rated voltage U _e (§1 , ⑤)	600 V	600 V
Rated insulation voltage U _i	800 V	800 V
AWG 🖘	22 12	18 10
AWG ®	18 12	18 10
Connection capacity, rigid	0.5 4 mm ²	0.5 6 mm ²
Connection capacity, flexible with end sleeve	0.5 2.5 mm ²	0.5 4 mm ²
Tightening torque	0.5 Nm	0.5 Nm
Standard	SIEMENS SYSTEMENS SYSTEMENS	SIEMENS WAI 01-19-01 WAN 01-19-01 WAN 01-19-01

Terminals	Number of poles	Inscription	Color		
• Through-type	terminal - single	terminal			
2 1-pole	e Blank	Beige	8WA1011-1DF11	8WA1011-1DG11	
			Blue	8WA1011-1BF23	8WA1011-1BG11
			Red	8WA1011-1BF21	8WA1011-1BG21
			Orange	8WA1011-1BF22	8WA1011-1BG22
		Yellow	8WA1011-1BF26	-	
			Black	8WA1011-1BF24	8WA1011-1BG24
			Green	8WA1011-1BF25	-
9 PE/PEN through	h-type terminal -	- single terminal			
1	1-pole	Blank	Green-yellow	8WA1011-1PF01	8WA1011-1PG01
2	1-pole	Blank	Green-yellow	8WA1011-1PF00	8WA1011-1PG00
1 Through-type	terminal block				
6	3-pole	Blank	Beige	8WA1011-3DF21	8WA1011-3DG21
20	10-pole	Blank	Beige	8WA1011-0DF21	8WA1011-0DG21
		1 10	Beige	8WA1011-0DF22	8WA1011-0DG22

6 mm ²	16 mm ²	35 mm ²	70 mm²
8 mm	10 mm	16 mm	25 mm
8 mm	12 mm	16 mm	-
24.5 mm	30 mm	48 mm	-
-	-	-	-
41 A	76 A	125 A	192 A
600 V	600 V	600 V	600 V
800 V	800 V	800 V	800 V
14 8	12 4	10 1	8 3/0
16 8	14 6	12 2	8 1/0
0.7 10 mm ²	1.5 16 mm ²	4 16 mm ²	10 95 mm ²
1.5 6 mm ²	2.5 16 mm ²	4 35 mm ²	16 70 mm ²
0.8 Nm	1.2 Nm	2.5 3 Nm	6 Nm
SIEMENS SYMM ON TOTAL SIEMENS SAM ON THE PERS SAM ON	IEC 60947-7-1, IEC 60947-7-2, %1 , ® SIEMENS SAME ARE TO A STATE OF THE TOWN OF THE T	IEC 60947-7-1, IEC 60947-7-2, ₹1, €	IEC 60947-7-1, %) , @

8WA1011-1DH11	8WA1204	8WA1205	8WA1206
8WA1011-1BH23	8WA1011-1BK11	8WA1011-1BM11	8WA1011-1BP11
-	-	-	-
-	-	-	-
-	-	-	-
8WA1011-1BH24	-	-	-
-	-	-	-
-	-	-	-
8WA1011-1PH00	8WA1011-1PK00	8WA1011-1PM00	-
8WA1011-3DH21	8WA1304	8WA1305	-
-	-	-	-
-	-	-	-

Through-type terminals

Special accessories	Terminal size	2.5 mm ²	4 mm ²
Covers			
	Version	Article No.	Article No.
4	With lightning symbol	8WA1810	8WA1811
5	White, facility for labeling	8WA1860	8WA1862
	For connection bars, transparent	8WA1822-7AX01	8WA1822-7AX01
	For connection bars, white, inscription possible	8WA1822-7AX03	8WA1822-7AX03
Jumpers			
DEC	Version	Article No.	Article No.
	For connection bars	8WA1822-7VF01	8WA1822-7VG00
Disconnecting links			
	 The terminals must be fitted with end plates and must be mounted with the end plates facing each other 		
	I _n	Article No.	Article No.
	Up to 32 A	8WA1865	8WA1865
End retainers, thermopla	astic		
	Width	Article No.	Article No.
26	10 mm	8WA1808	8WA1808
Insulation plate			
8WA1 825		Article No.	Article No.
N		8WA1825	8WA1825
Barriers			
	 Between terminals with terminal sizes 2.5 and 6 mm² two 8WH1820 barriers are required 		
	Thickness	Article No.	Article No.
	2 mm	8WA1820	8WA1820
Connection bars			
	Version	Article No.	Article No.
	For two terminals	8WA1895	8WA1850
	For three terminals	8WA1896	8WA1851
	For four terminals	8WA1897	8WA1852
	For ten terminals	8WA1898	8WA1853

6 mm²	16 mm ²	35 mm ²	70 mm ²
Article No.	Article No.	Article No.	Article No.
8WA1811	8WA1812	8WA1813	8WA1814
8WA1862	8WA1892	8WA1893	-
8WA1822-7AX01	8WA1822-7AX02	8WA1822-7AX02	-
8WA1822-7AX03	_	-	-
Astisla Na	Australia Na	Australia Na	Audiela Ne
Article No.	Article No.	Article No.	Article No.
8WA1822-7VH00	_	-	_
Article No.	Article No.	Article No.	Article No.
8WA1865	-	-	-
Article No.	Article No.	Article No.	Article No.
8WA1808	8WA1808	8WA1808	8WA1808
Article No.	Article No.	Article No.	Article No.
8WA1825	8WA1822-7TK00	8WA1822-7TK00	-
Article No.	Article No.	Article No.	Article No.
8WA1821	8WA1821	8WA1823	8WA1824
Article No.	Article No.	Article No.	Article No.
8WA1885	8WA1842	8WA1828	8WA1216
8WA1886	8WA1845	8WA1803	-
8WA1887	8WA1848	014/41/904	-
8WA1888	8WA1802	8WA1804	_

PE through-type terminals, bare



Special accessories

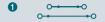
Barriers				
		Article No.	Article No.	
3	8	8WA1821	-	

8WA1010-1PH01

8WA1010-1PQ00

Bare

Two-tier terminals



2

	rerminai size
	4 mm²
Terminal width	6.5 mm
Rated uninterrupted current I _u	32 A
Rated insulation voltage U _i	690 V
AWG 🖘	18 10
AWG ®	18 10
Connection capacity, rigid	0.5 6 mm ²
onnection capacity, flexible with end sleeve	0.75 4 mm ²
Standard	91 , ®

Version	Color			
Two-tier terminals without equipotential bonding				
2-pole with two isolated connections	Beige	8WA1011-2DG11		
	Blue	8WA1011-2BG11		
@ Two-tier terminals with equipotential bonding				
1-pole	Beige	8WA1011-6DG11		
	Blue	8WA1011-6BG11		

Special accessories

Covers			
	Version		Article No.
4	With lightning symbol		8WA1811
t t	White, facility for labeling		8WA1862
	For connection bars, transparent		8WA1822-7AX01
Jumpers			
TT	Version		Article No.
	For upper tier of 2-pole terminals		8WA1822-7VG00
11	For lower tier of 1 and 2-pole terminals		8WA1822-7VG01
Disconnecting links			
OIC T.T			Article No.
			8WA1865
End plates			
			Article No.
1,			8WA1817
Insulation plate			
810A1 825	Version		Article No.
N/	For upper and lower tier		8WA1825
Connection bars			
u u n n	Version	Versions	Article No.
	For upper tier of 2-pole terminals	For two terminals	8WA1850
1 4		For three terminals	8WA1851
UU		For four terminals	8WA1852
		For ten terminals	8WA1853
	For lower tier of 1 and 2-pole terminals	For two terminals	8WA1835
		For ten terminals	8WA1838
Barriers			
5	Color		Article No.
	Gray		8WA1823

Insta or three-tier terminals



Туре	Color	
• L, L	Beige	8WA1011-3JF18
❷ PE, L, L	Beige	8WA1011-3JF16
⊘ PE, L, N	Beige	8WA1011-3JF17
● PE, L, NT	Beige	8WA1011-3JF20

Special accessories

Covers				
-	Version			Article No.
`	For connection bars, transp	arent		8WA1822-7AX01
	For connection bars, white			8WA1822-7AX03
Bare feeder terminals,	, for N busbars			
1 7	Size	Conductor cross-section	Rated uninterrupted current	Article No.
	6×6 mm and 10×3 mm	Up to 4 mm ²	32 A	8WA2867
		Up to 25 mm ²	76 A	8WA2868
		Up to 35 mm ²	125 A	8WA2870
N busbars, 6 × 6 mm				
3	Version	Length	Rated uninterrupted current	Article No.
3	For four-field	1109 mm	125 A	8GF9324-2
End retainers, thermo	plastic			
	Width			Article No.
50	10 mm			8WA1808
Terminal strip labels for	or end retainers			
	Version			Article No.
	Blank (WIN 67)			8WA8212-0AA65
Insulation carriers				
N CONTRACTOR	Use			Article No.
D.P. L.	For mounting insulated sup	port rails		8WA1857
Labels, blank				
	Label size	Version		Article No.
	5 × 7 mm (WIN 68)	Suitable for plotting		8WA8348-2AY
Connection bars				
iii	Version	Versions		Article No.
	For Insta terminals	For two terminals		8WA1822-7VF02
UU		For three terminals		8WA1822-7VF03
		For ten terminals		8WA1822-7VF10
Barriers				
	Version	Color		Article No.
	For Insta terminals	Gray		8WA1822-7TH00

N conductor isolating and branch terminals

>	Terminal size			
	2.5 mm ²	4 mm²	6 mm²	16 mm²
Terminal width	6 mm	6.5 mm	8 mm	10 mm
Rated uninterrupted current I _u	24 A	32 A	41 A	76 A
Rated insulation voltage U _i	500 V	500 V	500 V	500 V
AWG 🖘	22 12	18 10	14 8	12 4
AWG ®	22 12	18 10	14 8	-
Connection capacity, rigid	2.5 4 mm ²	0.5 6 mm ²	0.75 10 mm ²	1.5 16 mm ²
Connection capacity, flexible with end sleeve	0.5 2.5 mm ²	0.75 4 mm ²	0.5 6 mm ²	1.5 16 mm ²
Tightening torque	0.5 Nm	0.5 Nm	0.8 Nm	1.2 Nm
Standard	91 , ®	91 , @	91 , @	Al
	NOE TENS	NOE TRUE		
Terminals Color				
2 Blue	8WA1011-1NF01	8WA1011-1NG31	8WA1011-1NH01	8WA1604

Special accessories

Feeder terminals, f	or N busbars					
11.	Size	Rated uninter- rupted current	Article No.	Article No.	Article No.	Article No.
	6 × 6 mm and	32 A	8WA2867	8WA2867	-	-
Ch Ch M	10 × 3 mm	76 A	8WA2868	8WA2868	8WA2868	8WA2868
		125 A	8WA2870	8WA2870	8WA2870	8WA2870
N busbars, 6 × 6 mi	m, for four-field	i				
3	Length	Rated uninter- rupted current	Article No.	Article No.	Article No.	Article No.
7	1109 mm	125 A	8GF9324-2	8GF9324-2	8GF9324-2	8GF9324-2
Label holder						
			Article No.	Article No.	Article No.	Article No.
			3TX4210-0J	3TX4210-0J	3TX4210-0J	3TX4210-0J

8WA1 screw terminals

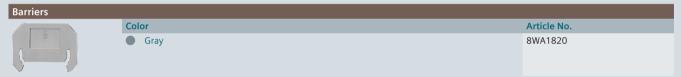
Through-type terminals with sectionalizing feature



Terminal size 2.5 mm² Terminal width 6 mm Rated uninterrupted current I, 10 A Rated insulation voltage U_i for open isolating distance 380 V AC, 450 V DC Rated insulation voltage U_i when using barriers 750 V AC, 900 V DC Connection capacity, rigid 0.25 ... 4 mm² Connection capacity, flexible without end sleeve 0.5 ... 2.5 mm² Connection capacity, flexible with end sleeve 0.5 ... 1.5 mm² **Tightening torque** 0.5 Nm Standard 91, @

Terminals	Version	Color	
2	With 2 holes for Ø 2.3 mm test plug	Gray	8WA1501

Special accessories



Measuring transformer terminals



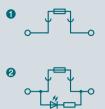
Special accessories

Covers, for connection	n bars	
	Versions	Article No.
1	Transparent	8WA1822-7AX01
	White, facility for labeling	8WA1822-7AX03
Test sockets		
MU	Diameter	Article No.
<u> </u>	4 mm	8WA1822-7PH00
Disconnecting links		
GE	Rated insulation voltage with disconnecting link open according to DIN VDE 0110: 125 V, size C or 250 V size B	
		Article No.
		8WA1822-7VH01
Insulation plate		
8V/A1 825		Article No.
		8WA1825
Connecting comb		
* : : : : : : : : :	Number of poles	Article No.
	2-pole	8WA1822-7VH22
	10-pole, can be shortened as required	8WA7163
Connection bars		
	Versions	Article No.
	Two terminals	8WA1885
	Three terminals	8WA1886
	Four terminals	8WA1887
	Ten terminals	8WA1888
	Unmounted for ten terminals	8WA1822-7VH10
Barriers		
(6)	Color	Article No.
5	● Gray	8WA1822-7TH00

8WA1 screw terminals

Fuse terminals





	Terminal size
	1.5 mm ²
Terminal width	10 mm

Rated uninterrupted current I, when using fuses 6.3 A Rated uninterrupted current I_u when using the isolating link 16 A Rated insulation voltage U_i when using fuses 250 V Rated insulation voltage U_i when using the isolating link 800 V

AWG 🕦 18...14 AWG @ 18...14

Connection capacity, rigid 1 ... 2.5 mm²

Connection capacity, flexible with end sleeve 0.75 ... 1.5 mm² Tightening torque 0.8 Nm

Standard 💫, @

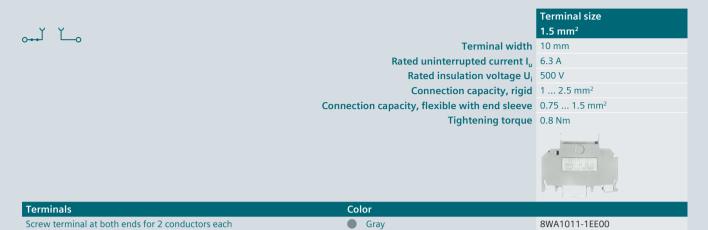


Ve	rsion	Co	lor	
Fo	r 5 × 25 mm G fuse links			
0	Without LED		Beige	8WA1011-1SF12
0	With LED 24 V AC/DC		Beige	8WA1011-1SF13
0	With LED 230 V AC/DC		Beige	8WA1011-1SF15
Fo	r 6.3 × 32 mm G fuse links (inch fuses)			
0	Without LED		Beige	8WA1011-1SF30
0	With LED 24 V AC/DC		Beige	8WA1011-1SF31
0	With LED 120 V AC/110 V DC		Beige	8WA1011-1SF32

Special accessories

5 × 25 mm G fuse links	5			
	Versions	Breaking capacity	Rated uninterrupted current	Article No.
	Quick	Large	1 A	8WA1822-7EF16
			1.6 A	8WA1822-7EF18
			2.5 A	8WA1822-7EF21
			4 A	8WA1822-7EF23
			6.3 A	8WA1822-7EF25
	Slow Small	1 A	8WA1822-7EF76	
		1.6 A	8WA1822-7EF78	
			2.5 A	8WA1822-7EF81
			4 A	8WA1822-7EF83
			6.3 A	8WA1822-7EF85
Isolating links, 5 × 25	mm			
	Size			Article No.
	5 × 25 mm			8WA1891

Terminals for self-fitting with components

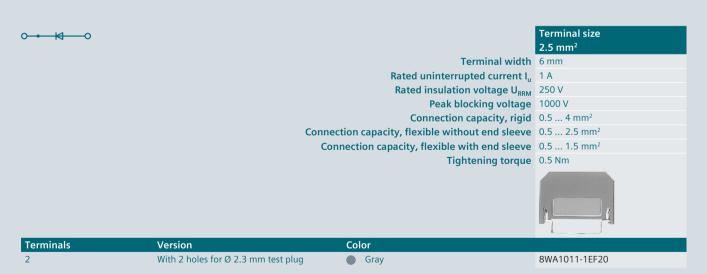


Special accessories

Plugs for components		
	Version	Article No.
	With PCB and inscription label (20 × 9 mm)	8WA1822-7EE00

General accessories, page 14/78 onwards

Diode terminals



Special accessories



8WA1 screw terminals

Two-tier diode terminals



Terminal width 6.5 mm

Rated uninterrupted current I_u 1 A

Rated insulation voltage U_i 250 V

Let-through current
Avalanche voltage U_z
AWG 11 18 ... 10

Connection capacity, rigid 0.5 ... 6 mm²

Connection capacity, rigid 0.5 ... 6 mm²
Connection capacity, flexible without end sleeve 0.5 ... 4 mm²
Connection capacity, flexible with end sleeve 0.5 ... 4 mm²
Tightening torque 0.5 Nm

AWG 🔊 18 ... 10

city, rigid 0.5 ... 6 mm²

nd sleeve 0.5 ... 4 mm²

nd sleeve 0.5 ... 4 mm²

ng torque 0.5 Nm

Standard 🔊

Terminal size





Versions	Bridging	Color	
With one diode			
Let-through from top to bottom	Not possible	Gray	-
With two diodes			
Let-through from top right to top left and from bottom right to bottom left	Not possible	Gray	8WA1011-6EG22
Let-through from top right to top left and from bottom to top	Not possible	Gray	-
Let-through from top left to top right and from top to bottom	Not possible	Gray	-
⊗ With red LED			
Without diode for voltage limitation		Gray	-
With Zener diode			
Let-through from bottom to top		Gray	-

Special accessories

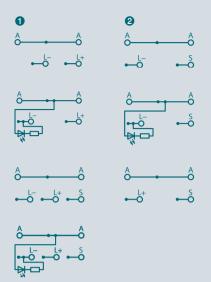


6.5 mm	6.5 mm	6.5 mm
32/1 A	32 A	_
250 V	24 V DC	_
-	-	0.25 A
_	_	2.4 V, ± 5%
18 10	18 10	18 10
0.5 6 mm ²	0.5 6 mm²	0.5 6 mm²
0.5 4 mm ²	0.5 4 mm²	0.5 4 mm²
0.5 4 mm ²	0.5 4 mm²	0.5 4 mm²
0.5 Nm	0.5 Nm	0.5 Nm
91	91	7U
8WA1011-6EG20	-	-
	-	-
8WA1011-6EG23	-	-
8WA1011-6EG24	-	-
	00044044 55005	
-	8WA1011-6EG25	-
		OWA4044 65644
-	-	8WA1011-6EG44

Article No.	Article No.	Article No.
8WA1817	8WA1817	8WA1817

8WA2 spring-loaded terminals

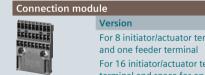
Initiator/actuator terminals



	Terminal size
	1.5 mm²
Terminal width	5 mm
Rated current I _n	10 A
Rated voltage U _e	65 V
Current consumption with LED	4.8 mA
AWG 🖘	22 16
AWG ®	28 16
Connection capacity, rigid	0.08 1.5 mm ²
Connection capacity, flexible with end sleeve	0.2 1.5 mm ²
Standard	%1 , @
	eLoDollo Acc. Ac

Version	Conductors 1)	LED	Color
• Initiator terminal			
PNP	L+, L-, A	-	Light gray 8WA2011-3KE10
		Yellow, 15 30 V DC	Light gray 8WA2011-3KE12
	L+, L-, S, A	-	Light gray 8WA2011-3KE11
		Yellow, 15 30 V DC	Light gray 8WA2011-3KE13
Actuator term	ninal		
PNP	L-, S, A	-	Light gray 8WA2011-3KE31
		Yellow, 15 30 V DC	Light gray 8WA2011-3KE33
NPN	L+, S, A	-	Light gray 8WA2011-3KE30

Special accessories



dı	ule				
	Version	Width	Height	Color	Article No.
	For 8 initiator/actuator terminals and one feeder terminal	47 mm	65 mm	Black	8WA2011-3KE50
	For 16 initiator/actuator terminals, one feeder terminal and space for one terminal for further bridging for subsequent module	93 mm	65 mm	Black	8WA2011-3KE51

General accessories, page 14/78 onwards

 $^{1)}$ L+ = brown, L- = blue, S (shield) = green, A (output) not colored

Feeder terminals for initiator/actuator terminals

2 S L+ L-

	Terminal size
	1.5 mm²
Terminal width	5 mm
Rated current I _n	10 A
Rated voltage U _e	65 V
Current consumption with LED	4.8 mA
AWG 🖘	22 16
AWG ®	28 16
Connection capacity, rigid	0.08 1.5 mm ²
Connection capacity, flexible with end sleeve	0.2 1.5 mm ²
Standard	%1 , ®
	or Lohe vo - ly e

Version	Conductors 1)	LED	Color	
Feeder terminal				
PNP	0 L+, L−	-	Orange	8WA2011-3KE01
	② L+, L−, S	-	Orange	8WA2011-3KE00
		Green, 15 30 V DC	Orange	8WA2011-3KE02
NPN	② L+, L−, S	-	Orange	8WA2011-3KE00
	● L+, L−, without ground connection	-	Orange	8WA2011-3KE01

Special accessories

Connection module								
REFEREN	Version	Width	Height	Color	Article No.			
ALEGEREEE ELEGEREEE	For 8 initiator/actuator terminals and one feeder terminal	47 mm	65 mm	Black	8WA2011-3KE50			
	For 16 initiator/actuator terminals, one feeder terminal and space for one terminal for further bridging for subsequent module	93 mm	65 mm	Black	8WA2011-3KE51			

General accessories, page 14/78 onwards

 $^{1)}$ L+ = brown, L- = blue, S (shield) = green, A (output) connection not colored

Accessories for 8WA terminal blocks

Individual labeling system

Labeling systems for

- Terminal blocks
- Modular installation devices
- Circuit breakers
- Switch disconnectors

The inscription labels can be inscribed with Murrplastik labeling systems or by hand.

The WIN designation facilitates assignment in the inscription software.

Labeling systems available from:

Murrplastik Systemtechnik GmbH Postfach 1143 D-71570 Oppenweiler

Telephone: 07191-482-0 email: info@murrplastik.de

Blank labels							
ALBERTALBERTH OF THE STATE OF T	 Cannot be used for two-tier terminals (For 8WA1 and 8WA2, individually removable Cannot be used for two-tier terminals (lower tier), 8WA1010-1PQ00 flat terminals and 8WA1808 end retainers 					
	Version	Designation	Color	Article No.			
	5 × 7 mm	WIN 68	White	8WA8850-2AY			
	5 × 10 mm	WIN 68	White	8WA8851-2AY			
Snap-on device	labels						
	For identification of, e.g. circuit breake	For identification of, e.g. circuit breakers, contactors and control systems					
	Version	Designation	Color	Article No.			
	20 × 7 mm, snap-on hooks at side	WIN 95	White	8WH8210-0AA55			
NSH0_00038			Turquoise	8WH8210-0AA56			
Adhesive device	e labels						
	For identification of, e.g. modular insta	Illation devices and switch disconi	nectors				
	Versions	Designation	Color	Article No.			
	15 × 6 mm	WIN 098	White	8WH8210-0AA35			
		WIN 099	Yellow	8WH8210-0AA36			
	19 × 8 mm	WIN 088	White	8WH8210-0AA45			
		WIN 082	Yellow	8WH8210-0AA46			

Standard labeling system

Labels, blank (WIN 68)				
	Text alignment	Label size		Article No.
	Vertical	5 × 7 mm		8WA8348-2AY
	Horizontal and vertical	5 × 10 mm		8WA8310-2AY
				0.000000
Labels, with inscription				
	• Label size 5 × 7 mm, f	ont height 2 mm		
	Text alignment	Inscription	Scope of supply	Article No.
1000000	Horizontal	1 5	3 cards each with $13 \times (1 5) + 1 \times (1 3)$	8WA8360-0BA
		6 10	3 cards each with 13× (6 10) + 1× (6 8)	8WA8360-0BB
		11 15	3 cards each with 13× (11 15) + 1× (11 13)	8WA8360-0BC
		16 20	3 cards each with 13× (16 20) + 1× (16 18)	8WA8360-0BD
		21 25	3 cards each with 13× (21 25) + 1× (21 23)	8WA8360-0BE
		26 30	3 cards each with 13× (26 30) + 1× (26 28)	8WA8360-0BF
hear dear dear dear dear		31 35	3 cards each with 13× (31 35) + 1× (31 33)	8WA8360-0BG
		36 40	3 cards each with 13× (36 40) + 1× (36 38)	8WA8360-0BH
		41 45	3 cards each with 13× (41 45) + 1× (41 43)	8WA8360-0BJ
		46 50	3 cards each with 13× (46 50) + 1× (46 48)	8WA8360-0BK
		56 60	3 cards each with 13× (56 60) + 1× (56 58)	8WA8360-0BM
		61 65	3 cards each with 13× (61 65) + 1× (61 63)	8WA8360-0BN
		71 75	3 cards each with 13× (71 75) + 1× (71 73)	8WA8360-0BQ
		76 80	3 cards each with 13× (76 80) + 1× (76 78)	8WA8360-0BR
		81 85	3 cards each with 13× (81 85) + 1× (81 83)	8WA8360-0BS
		91 95	3 cards each with 13× (91 95) + 1× (91 93)	8WA8360-0BU
		96 100	3 cards each with 13× (96 100) + 1× (96 98)	8WA8360-0BV
		1 20	3 cards each with 3× (1 20) + 1× (1 8)	8WA8360-0AB
		1 40	3 cards each with $1 \times (1 40) + 1 \times (1 28)$	8WA8360-0AC
		41 100	3 cards each with 1× (41 100) + 1× (41 48)	8WA8360-0AD
		1 100	3 cards each with 2× (1 100) + 1× (1 4)	8WA8360-0AE
		101 200	3 cards each with 2× (101 200) + 1× (101 104)	8WA8360-0AF
		201 300	3 cards each with 2× (201 300) + 1× (201 204)	8WA8360-0AG
		A T	3 cards each with $3 \times (A \dots T) + 1 \times (A \dots H)$	8WA8360-1AA
		U, V, W, X, Y, Z, +, -	3 cards each with 8× (U –) + 1× (U X)	8WA8360-1AB
		L1, L2, L3, N, PE	3 cards each with 9× (L1 PE) + 1× (L1 L3)	8WA8360-1AC
	Vertical	U1, V1, W1, U2, V2, W2	3 cards each with 11× (U1 W2) + 1× (U1, V1)	8WA8360-1AD 8WA8361-0BA
	vertical	1 5 6 10	3 cards each with 13× (1 5) + 1× (1 3) 3 cards each with 13× (6 10) + 1× (6 8)	8WA8361-0BB
		11 15	3 cards each with 13× (0 10) + 1× (0 0)	8WA8361-0BC
THE PER PER PER		16 20	3 cards each with 13× (16 20) + 1× (16 18)	8WA8361-0BD
		21 25	3 cards each with 13× (10 25) + 1× (10 16)	8WA8361-0BE
且且且且且		26 30	3 cards each with 13× (26 30) + 1× (26 28)	8WA8361-0BF
信信信信信		31 35	3 cards each with 13× (25 35) + 1× (26 33)	8WA8361-0BG
		36 40	3 cards each with 13× (36 40) + 1× (36 38)	8WA8361-0BH
		41 45	3 cards each with 13× (41 45) + 1× (41 43)	8WA8361-0BJ
		46 50	3 cards each with 13× (46 50) + 1× (46 48)	8WA8361-0BK
		51 55	3 cards each with 13× (51 55) + 1× (51 53)	8WA8361-0BL
		56 60	3 cards each with 13× (56 60) + 1× (56 58)	8WA8361-0BM
		61 65	3 cards each with 13× (61 65) + 1× (61 63)	8WA8361-0BN
		66 70	3 cards each with 13× (66 70) + 1× (66 68)	8WA8361-0BP
		71 75	3 cards each with 13× (71 75) + 1× (71 73)	8WA8361-0BQ
		76 80	3 cards each with 13× (76 80) + 1× (76 78)	8WA8361-0BR
		81 85	3 cards each with 13× (81 85) + 1× (81 83)	8WA8361-0BS
		86 90	3 cards each with 13× (86 90) + 1× (86 88)	8WA8361-0BT
		91 95	3 cards each with 13× (91 95) + 1× (91 93)	8WA8361-0BU
		96 100	3 cards each with 13× (96 100) + 1× (96 98)	8WA8361-0BV

Accessories for 8WA terminal blocks

Standard labeling system

	(continued)			
	• Label size 5 × 7 mm, f			
	Text alignment	Inscription	Scope of supply	Article No.
	Vertical	1 20	3 cards each with 3× (1 20) + 1× (1 8)	8WA8361-0AB
		1 40	3 cards each with 1× (1 40) + 1× (1 28)	8WA8361-0AC
		41 100	3 cards each with 1× (41 100) + 1× (41 48)	8WA8361-0AD
mannan Manan Manan Mananan Mananan Mananan Manan Manan Manan Manan Mananan Manan Manan Manan Manan Manan Manan		1 100	3 cards each with 2× (1 100) + 1× (1 4)	8WA8361-0AE
		101 200	3 cards each with 2× (101 200) + 1× (101 104)	8WA8361-0AF
		201 300	3 cards each with 2× (201 300) + 1× (201 204)	8WA8361-0AG
The the the the		A T	3 cards each with 3× (A T) + 1× (A H)	8WA8361-1AA
		U, V, W, X, Y, Z, +, -	3 cards each with 8× (U –) + 1× (U X)	8WA8361-1AB
		L1, L2, L3, N, PE	3 cards each with 9× (L1 PE) + 1× (L1 L3)	8WA8361-1AC
		U1, V1, W1, U2, V2, W2	3 cards each with 11× (U1 W2) + 1× (U1, V1)	8WA8361-1AD
els, type 347/348, v	vith inscription			
	• Label size 5 × 7 mm, f	ont height 2 mm		
	Text alignment	Inscription		Article No.
	Horizontal	L1		8WA8347-2AC
		L2		8WA8347-2AD
		L3		8WA8347-2AE
		N		8WA8347-1AR
		PE		8WA8347-2AH
		L+		8WA8347-2AF
		L-		8WA8347-2AG
	Vertical	L1		8WA8348-2AC
		L2		8WA8348-2AD
		L3		8WA8348-2AE
		N		8WA8348-1AR
		MP		8WA8348-2AB
销售销售		PE		8WA8348-2AH
		L+		8WA8348-2AF
		L-		8WA8348-2AG
基基基基		Χ		8WA8348-1AG
		Υ		8WA8348-1AH
ls, custom inscripti	ons			_
	Label size 5 × 7 mm, fSpecify required inscr	3		
	Can only be ordered v	vith the order code -Z Y01		
	Text alignment			Article No.
	Horizontal			8WA8347-0XA-Z Y0
	Vertical			8WA8348-0XA-Z Y0
labeling plates				
		n possible, with transparent 5, 8WA1808 and 8WA2808		
	Text alignment	Label size		Article No.
	Horizontal and vertical	21 × 42 mm		8WA1806
ninal strip labels				
100041	Paper label, inscriptioSuitable for 8WA1808	n possible, with transparent Bend retainers	t cover	
P	Text alignment	Versions		Article No.
HSM	Horizontal	With inscription		8WA8826-0AA
				8WA8826-0AB
				8WA8826-0AC

Mounting accessories

End retainers, with screw fixing

End retainers, with	iscrew fixing					
		VA1806 end labeling plate or 8V IH device label or four 8WA88 la	VA8826-0A. terminal strip identifica bels	ation label		
	Mounting width					Article No.
	10 mm					8WA1808
	10 111111					own 1000
End retainers, stee	I					
		VA1806 end label				
\$ 0 WA 1 000 . @ @		barrier must be inserted if using A189 connection bar (size 2.5)	end retainers			
	Mounting width					Article No.
	10.3 mm					8WA1805
Standard mounting						
	Version	Material	Standard	Length	Thickness	Article No.
	Perforated	Steel, sendzimir-galvanized	EN 50022-35 × 7.5	2 m	1 mm	5ST1145
	Non-perforated	Steel, sendzimir-galvanized	EN 50022-35 × 7.5	2 m	1 mm	5ST1141
		Copper	EN 50022-35 × 15	2 m	2.3 mm	8WA7551
		Steel, galvanized, chromated	Similar to EN 50022-35 × 15	2 m	1.5 mm	5ST1142
Spacer brackets						
M5	Version					Article No.
\$ Q \$ €	For raised mount	ing of terminal strips				8WA753
SHOW THE SHO						
→ 20 ← → 22 ←						
Spacers						
5,5	Version			Drill hole		Article No.
\$ Q \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	For raised mount	ing of terminal strips		5.5 mm		8WA752
² ← 33 → 9 ← ⁷						
Mounting brackets						
	Version					Article No.
© 05 14 × M5 P	For support rails					8WA746
←25≠						
Insulation carriers						
	Version					Article No.
0 82 Jun4	For insulated mo	unting of support rails onto plate	es, frame profiles and standard mo	unting rails EN	50022-35	8WA1857
4, 40						
20-14-						

Reliable and efficient power supply in infrastructure and industrial applications

The electrical power distribution in buildings, infrastructure and industry is undergoing a transformation. A growing number of electrical loads, fluctuating load conditions and an increasing level of automation pose new challenges for switchboard manufacturers and electrical planners. Availability, safety and efficiency of the power distribution system are becoming more important. This is reflected in detailed standards and regulations and in requirements for company power management.

The planning and operation of electrical power distribution systems are becoming more complex, and the technical demands placed on the underlying systems and products are rising – in particular with respect to flexibility, communication capability and integrability. A data-based engineering process, hardware and software systems, an intelligent data management must all interact smoothly to provide optimum support to dynamic industrial and infrastructure processes.

The basis for a reliable and efficient power supply is provided by our portfolio of power distribution boards and distribution boards with innovative products and systems. A data-based engineering process with SIMARIS software tools, high availability of product-related data support the value chain of the switchboard manufacturer – from planning to documentation of the installation.



Power Distribution Boards, Motor Control Centers and Distribution Boards



Quick selection guide	
	SIVACON and ALPHA distribution systems
	SIMARIS® planning tools
Power Distribution Boards ar	nd Motor Control Centers
	SIVACON S8 / ALPHA 3200 system overview
SIVACON S4 power distributi	ion boards
	System overview
	Frame and enclosure
	Busbar systems
	Section expansion
	Internal separation
ALPHA UNIVERSAL distribution	on boards (NF technology)
	ALPHA UNIVERSAL system overview
	ALPHA 800 UNIVERSAL floor-mounted distribution boards
	ALPHA 630 UNIVERSAL wall-mounted distribution boards
	ALPHA 630 UNIVERSAL floor-mounted distribution boards
	ALPHA 125 UNIVERSAL distribution boards
	Assembly kits
	Busbars
	Accessories
ALPHA distribution boards (E	DIN technology)
	ALPHA system overview
	ALPHA 1250 floor-mounted distribution boards
	ALPHA 1250 marshaling boxes
	ALPHA 630 floor-mounted distribution boards
	ALPHA 630 marshaling boxes
	ALPHA 400 distribution boards
	ALPHA 160 distribution boards
	Assembly kits
	Quick-assembly kits
	Busbars
	Accessories
Small distribution boards	
	ALPHA SIMBOX XL small distribution boards
	ALDUA CIMPOVIMO escall dictaile sticus le conde

A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

Information to get you started

You will find information about power distribution boards, motor control centers and distribution boards on our websites

www.siemens.com/sivacon-S8 www.siemens.com/distributionsystems



Contact persons in your region

We are there when you need us

You can find your local contacts at www.siemens.com/lowvoltage/contact



Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

• Technical basic information – SIVACON S4 power distribution boards and ALPHA UNIVERSAL distribution boards (109767882)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

Use our conversion tool for quick and easy conversion to Siemens products

www.siemens.com/conversion-tool



Siemens YouTube channel

Our video range

- Power Distribution SIVACON (general) bit.lv/2m4oSLI
- Siemens SIVACON S4 power distribution boards up to 4000 A bit.ly/2krni6h



Everything you need for your order

Refer to the Industry Mall for an overview of your products

- SIVACON S4 power distribution boards sie.ag/2JUQwE4
- ALPHA distribution boards sie.ag/2kURLd8
- SIMARIS planning tools sie.ag/2m3oFbS

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

How you can get your SIVACON S8

Use the competence and experience of our experts at one of the production locations near to your www.siemens.com/lowvoltage/contact

Our certified SIVACON Technology Partners are also available to you for questions relating to the high quality of our low-voltage switchboards

www.siemens.com/sivacon-partnerfinder

... can be found in our online services

Commissioning + operation



Planning tools

BIM-compliant SIMARIS planning tools

The SIMARIS planning tools effectively assist you in your planning process. Project-specific BIM (Building Information Modeling) data for cross-package planning is also possible.

www.siemens.com/simaris



Configuration software

SIMARIS configuration

SIMARIS configuration supports the engineering process of the SIVACON and ALPHA distribution systems from planning to documentation of the installation.

www.siemens.com/simarisconfig



Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAx Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Planning manual SIVACON S8 Technical planning information (107113936)
- Manual SIVACON S4 (25909512)



The fast track to the experts

Competent expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

Assistance with technical queries is provided at www.siemens.com/lowvoltage/support-request

We offer a comprehensive portfolio of services. You can find your local contacts at www.siemens.com/lowvoltage/contact

You can find further information on services at www.siemens.com/service-catalog



Training and tutorials

Our training courses can be found at www.siemens.com/sitrain-lowvoltage

SIMARIS configuration (WT-LVASIMC)



Technical overview of power distribution boards, motor control centers and distribution boards



The fast way to get you to our online services

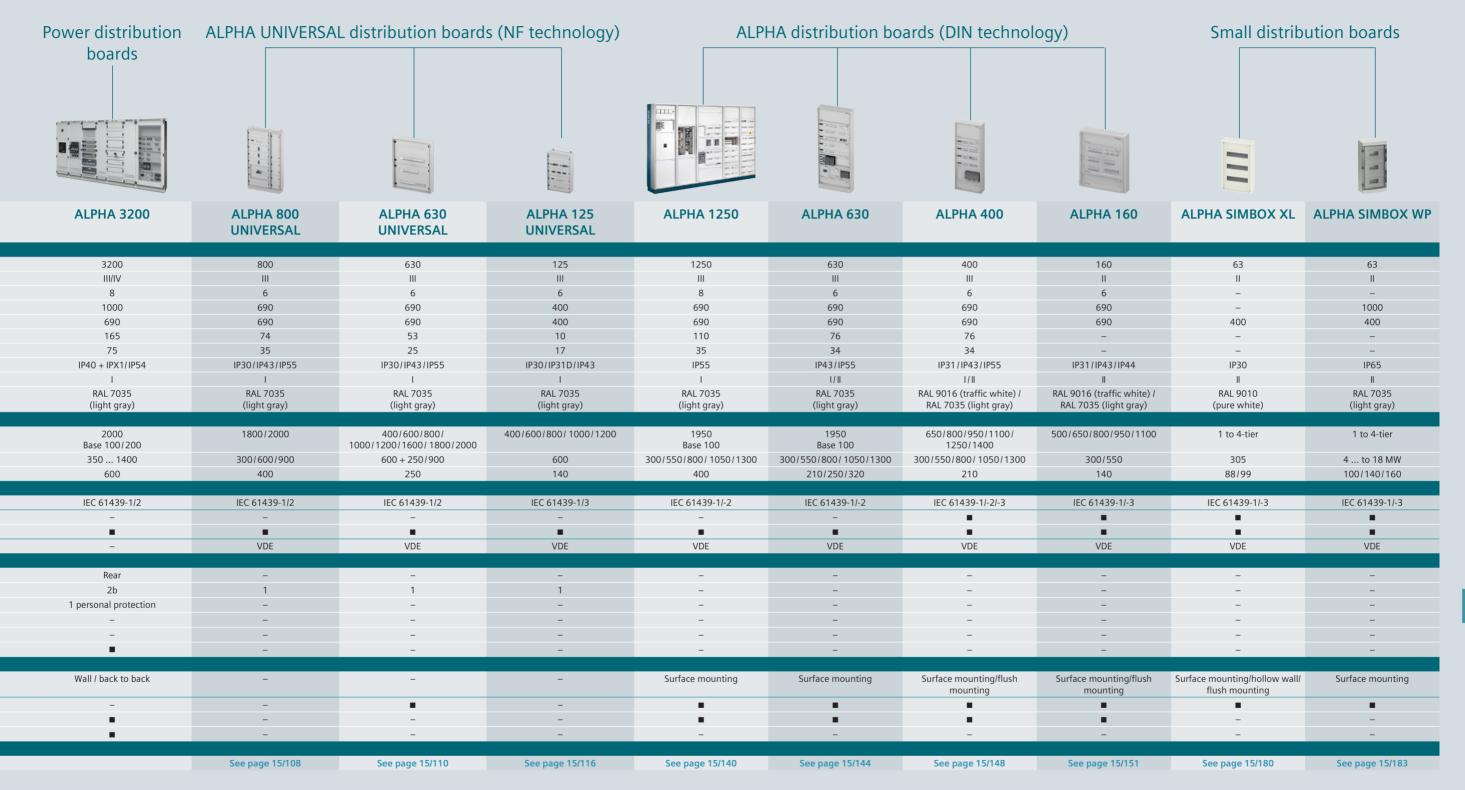
This page provides you with comprehensive information and links on power distribution boards, motor control centers and distribution boards

www.siemens.com/lowvoltage/product-support (109769089)

SIVACON and ALPHA distribution systems

Power distribution Power distribution

			boards and motor control centers	boards
			SIVACON S8	SIVACON S4
Basic data				
Rated current		Α	7010	4000
Overvoltage category	II	13.4	IV	III/IV
Rated impulse withstand volta	ge U _{imp}	kV	8	12
Rated insulation voltage U _i		V	1000	1000
Rated operational voltage U _e		V AC	Up to 690	690
Rated short-circuit current I _{pk}	2)	kA kA	Up to 330	220 100
Rated short-time current I _{cw} (1		KA	Up to 150 IP30 IP54	IP40 + IPX1/IP55
Degree of protection according Safety class	y to IEC 60329/EN 60329		IF30 IF34	1F40 + 1FA1/1F33
Color			RAL 7035	RAL 7035
Color			(light gray)	(light gray)
Dimensions				
Height		mm	2000/2200	2000
			Base 100/200	Base 100/200
Width		mm	200 1400	350 1200
Depth		mm	500 1200	400/600/800
Standards and specifications				
IEC	- "		IEC 61439-2	IEC 61439-1/2
Operating personnel	Ordinary person		-	-
A 1	Electrically skilled person		DANY CL. ADC. LD. ACTA, FAC. CCC, DEVDA	III.
Approvals			DNV GL, ABS, LR, ASTA, EAC, CCC, DEKRA	VDE
Equipment Bushar position			Top roor	Top, bottom, rear
Busbar position			Top, rear 4b	
Form of internal separation	Larging age to EN 61420 2 Supplement 1		4b	4b _
SIMARIS control	l arcing acc. to EN 61439-2 Supplement 1			
	nal aree			-
Active protection against inter			-	-
Section for reactive power con Other	iipeiisattori			
Type of installation			Wall / back to back / double-fronted	Wall / back to back
Type of delivery	Flat pack / individual parts		•	
J ₁	Pre-assembled without copper			<u> </u>
	Pre-assembled with copper		•	
More information	The assembled with copper			_
Catalog LV 10				See page 15/2
				200 hago 19/2

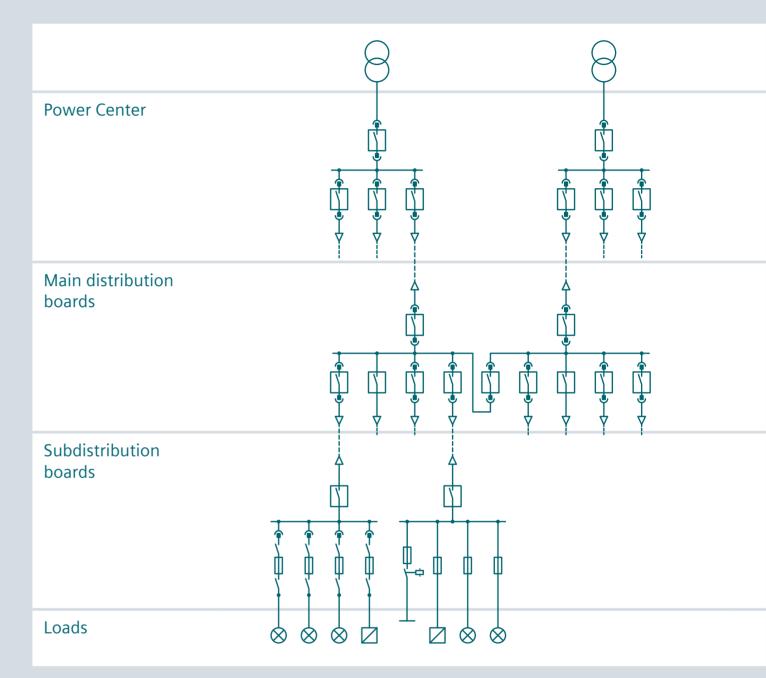


SIVACON and ALPHA distribution systems

Additional options

annon vieta andre en de (a)				_	Order cod		
appropriate order code(3).			8GKZ				
Special colors for	ALPHA						
	RAL 1003, signal yellow	Semi-gloss	Smooth	С	2	7	
	RAL 2000, yellow orange	Semi-gloss	Smooth	С	2	5	
	RAL 3000, flame red	Silky gloss	Surface structure	С	3	1	
	RAL 5005, signal blue	Semi-gloss	Smooth	С	2	3	
	RAL 5010, gentian blue	Semi-gloss	Smooth	С	2	4	
	RAL 5017, traffic blue	Silky gloss	Surface structure	С	2	2	
	RAL 6018, yellow green	Semi-gloss	Smooth	С	2	6	
	RAL 7032, pebble gray	Semi-gloss	Surface structure	С	1	3	
	RAL 7033, cement gray	Semi-gloss	Surface structure	С	2	8	
	RAL 7035, light gray	Semi-gloss	Smooth	С	1	1	
			Surface structure	С	1	2	
	RAL 7038, agate gray	Semi-gloss	Surface structure	С	1	4	
	RAL 9001, cream	Semi-gloss	Smooth	С	2	1	
	RAL 9002, gray white	Semi-gloss	Smooth	С	1	8	
			Surface structure	С	1	9	
		Silky gloss	Smooth	С	2	9	
	RAL 9003, signal white	Semi-gloss	Surface structure	С	2	0	
	RAL 9005, jet black	Semi-gloss	Smooth	С	1	6	
			Surface structure	С	1	7	
	RAL 9010, pure white	Semi-gloss	Smooth	С	1	5	
			Surface structure	С	3	0	
	RAL 9016, traffic white	Semi-gloss	Smooth	С	1	0	

Applications



SIVACON S8



SIVACON S8



SIVACON S4



ALPHA 3200



ALPHA UNIVERSAL (NF technology) ALPHA (DIN technology)



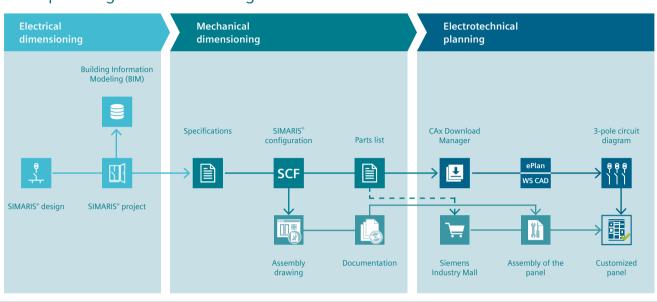




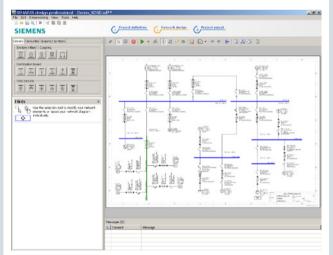
SIMARIS® planning tools

For planning and visualizing the power distribution system

From planning to commissioning



SIMARIS® design

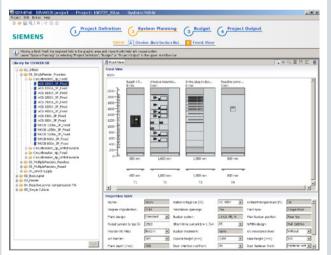


SIMARIS® design is a planning tool for quick, effective network calculations and dimensioning of electrical power distribution systems for non-residential and industrial buildings.

- Dimensioning of electrical networks on the basis of real products according to acknowledged rules of technology and the applicable standards (VDE, IEC)
- Automatic selection of the appropriate components from the integrated product database

Free download of the basic version and further information at: www.siemens.com/simarisdesign

SIMARIS® project

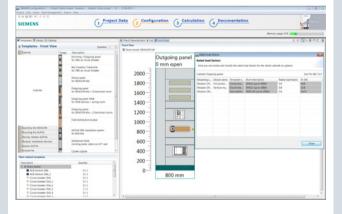


SIMARIS® project is a planning tool for fast calculation of space requirements and electrical power distribution system budgets for non-residential and industrial buildings, and for generating specifications automatically.

- Import of projects created in SIMARIS® design
- Export of 3D data in IFC 4.x format for BIM (Building Information Modeling)

Free download and further information at: www.siemens.com/simarisproject

SIMARIS® configuration

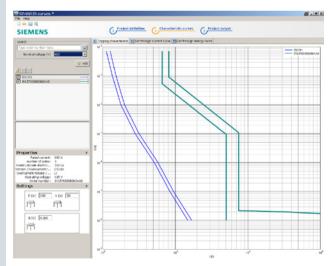


With the configuration software SIMARIS® configuration, both the power distribution boards and the ALPHA distribution boards can be quickly and reliably configured.

- Comprehensive documentation of the installation with design verification acc. to IEC 61439
- Configuration of the devices from the SENTRON portfolio with the exact article numbers and integrated price calculation feature

Free download and further information at: www.siemens.com/simarisconfig

SIMARIS® curves



SIMARIS® curves is a planning tool for visualizing and evaluating characteristic curves of Siemens low-voltage protection equipment and fuses (IEC) quickly and easily, including the possibility of simulating instrument settings.

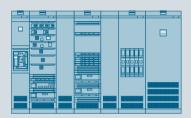
• is available both as a PC version and also as an app for use on a tablet PC or a smartphone

Free download and further information at: www.siemens.com/simariscurves

SIVACON S8 / ALPHA 3200 system overview

Section design and installable devices

SIVACON S8



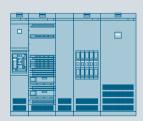






			in-ilile design, plugged in
Devices 3	WL and 3VA	3VA, 3RV, 3NP, 3K and 5S	3NJ6
Installation system Fi W	ixed-mounted /ithdrawable	Fixed-mounted with front covers	Plug-in
	nfeed, outgoing feeder, oupling	Outgoing cable feeders	Outgoing cable feeders
Rated values U	p to 6300 A	Up to 630 A	Up to 630 A
Connection type Fr	ront or rear	Front	Front

ALPHA 3200









	Circuit breaker design	Fixed-mounted design	In-line design, plugged in	
Devices	3WL and 3VA	3VA, 3RV, 3NP, 3K	3NJ6	
Installation system	Fixed-mounted Withdrawable	Fixed-mounted with front covers	Plug-in	
Functions	Infeed, Outgoing feeder, Coupling	Outgoing cable feeders	Outgoing cable feeders	
Rated values	Up to 3200 A	Up to 630 A	Up to 630 A	
Connection type	Front or rear	Front	Front	

15











In-line design, fixed-mounted	Reactive power compensation	Active protection against internal arcs	Universal mounting design / motor control center	Frequency converter technology
3NJ4	Capacitor units, controllers	Internal arc protection system	3VA, 3RV, 3NP, 3K, 3R, 3UF, 3NJ6 and 3LD	SINAMICS G120 (6SL)
Fixed-mounted	Fixed-mounted	Fixed-mounted	Withdrawable Fixed-mounted with modular doors Plug-in	Fixed-mounted (modules)
Outgoing cable feeders	Central compensation of reactive power	Active protection against internal arcs	Outgoing cable feeders Motor feeders (MCC)	Motor feeders (MCC)
Up to 630 A	Without inductor up to 600 kvar With inductor up to 500 kvar	Short-circuit-proof up to 100 kA at 690 V	Up to 630 A, up to 250 kW	Up to 132 kW
Front	Front	-	Front or rear	Front

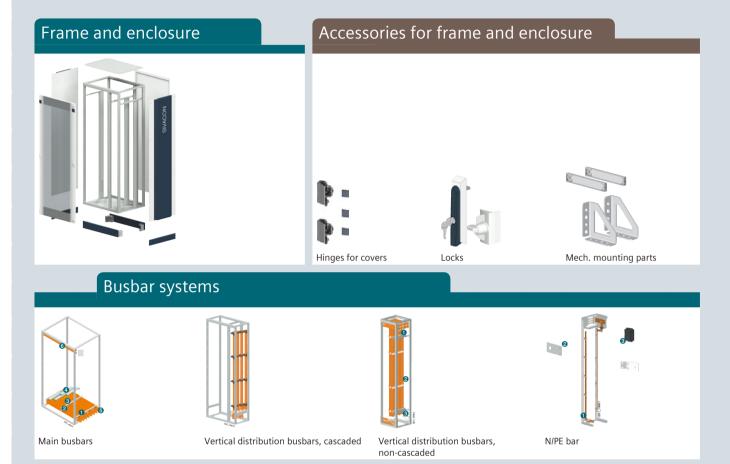




In-line design, fixed-mounted	Reactive power compensation	Active protection against internal arcs	Universal mounting design / motor control center	Frequency converter technology
3NJ4	Capacitor units, controllers	_	_	-
Fixed-mounted	Fixed-mounted	-	-	-
Outgoing cable feeders	Central compensation of reactive power	-	-	-
Up to 630 A	Without inductor up to 600 kvar With inductor up to 500 kvar	-	-	-
Front	Front	-	-	-

System overview

SIVACON S4 power distribution boards



Section expansion







outgoing feeder panels outgoing feeder panels 3NP1 modular installation devices



3NJ4



outgoing feeder panels coupling panels



Mounting plates



Cable section



Corner sections



ALPHA 8GK DIN section

Internal separation



Form 1 Without separation



Form 2 Separation + busbar systems



Form 3 Separation + busbar systems + device compartments

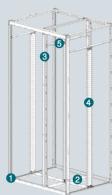


Form 4 Separation

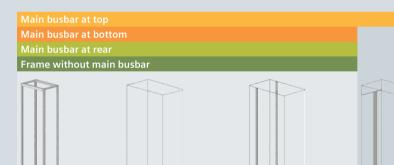
- + busbar systems
- + device compartments + connections

Frame

Main busbar at top



- 1 Frame
- 2 Bottom plate partition crossbar
- 3 Exterior intermediate upright
- Interior side upright
- 6 Section division



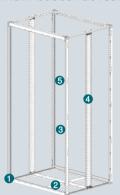
Width	Depth	• Frame	Bottom plate partition crossbar	Exterior intermediate upright	• Interior side upright	⊙ Section division
400 mm	400 mm	8PQ1204-4BA01	8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA65	8PQ3000-1BA31
	600 mm	8PQ1204-6BA01	8PQ3000-1BA40	8PQ3000-1BA43	8PQ3000-0BA01	8PQ3000-1BA32
	800 mm	8PQ1204-8BA01	2× 8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA02	8PQ3000-1BA34
600 mm	400 mm	8PQ1206-4BA01	8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA65	8PQ3000-1BA31
	600 mm	8PQ1206-6BA01	8PQ3000-1BA40	8PQ3000-1BA43	8PQ3000-0BA01	8PQ3000-1BA32
	800 mm	8PQ1206-8BA01	2× 8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA02	8PQ3000-1BA34
800 mm	400 mm	8PQ1208-4BA01	8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA65	8PQ3000-1BA31
	600 mm	8PQ1208-6BA01	8PQ3000-1BA40	8PQ3000-1BA43	8PQ3000-0BA01	8PQ3000-1BA32
	800 mm	8PQ1208-8BA01	2× 8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA02	8PQ3000-1BA34
1000 mm	400 mm	8PQ1201-4BA02	8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA65	8PQ3000-1BA31
	600 mm	8PQ1201-6BA02	8PQ3000-1BA40	8PQ3000-1BA43	8PQ3000-0BA01	8PQ3000-1BA32
	800 mm	8PQ1201-8BA03	2× 8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA02	8PQ3000-1BA34
1200 mm	400 mm	8PQ1202-4BA02	8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA65	8PQ3000-1BA31
	600 mm	8PQ1202-6BA02	8PQ3000-1BA40	8PQ3000-1BA43	8PQ3000-0BA01	8PQ3000-1BA32
	800 mm	8PQ1202-8BA02	2× 8PQ3000-1BA38	8PQ3000-1BA43	8PQ3000-0BA02	8PQ3000-1BA34

Main busbar at bottom



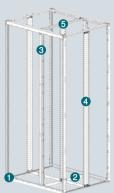
- 1 Frame
- 3 Exterior intermediate upright
- 4 Interior side upright
- **6** Section division

Main busbar at rear

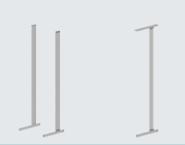


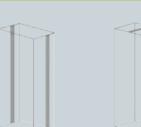
- 1 Frame
- 2 Bottom plate partition crossbar
- 3 Exterior intermediate upright
- Interior side upright
- **5** Section division

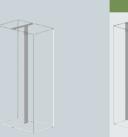
Frame without main busbar



- 1 Frame
- 2 Bottom plate partition crossbar
- 3 Exterior intermediate upright
- 4 Interior side upright
- 6 Section division









4 Interior side upright	⊙ Section division	• Interior side upright	⊙ Section division	• Interior side upright	⊙ Section division
8PQ3000-0BA10	8PQ3000-0BA10	-	-	-	-
8PQ3000-3BA10	8PQ3000-3BA47	-	-	8PQ3000-0BA03	8PQ3000-1BA36
8PQ3000-3BA11	8PQ3000-3BA48	8PQ3000-0BA03	8PQ3000-1BA37	8PQ3000-0BA03	8PQ3000-1BA37
8PQ3000-0BA10	8PQ3000-0BA10	-	-	-	-
8PQ3000-3BA10	8PQ3000-3BA47	-	-	8PQ3000-0BA03	8PQ3000-1BA36
8PQ3000-3BA11	8PQ3000-3BA48	8PQ3000-0BA03	8PQ3000-1BA37	8PQ3000-0BA03	8PQ3000-1BA37
8PQ3000-0BA10	8PQ3000-0BA10	-	-	-	-
8PQ3000-3BA10	8PQ3000-3BA47	-	-	8PQ3000-0BA03	8PQ3000-1BA36
8PQ3000-3BA11	8PQ3000-3BA48	8PQ3000-0BA03	8PQ3000-1BA37	8PQ3000-0BA03	8PQ3000-1BA37
8PQ3000-0BA10	8PQ3000-0BA10	-	-	-	-
8PQ3000-3BA10	8PQ3000-3BA47	-	-	8PQ3000-0BA03	8PQ3000-1BA36
8PQ3000-3BA11	8PQ3000-3BA48	8PQ3000-0BA03	8PQ3000-1BA37	8PQ3000-0BA03	8PQ3000-1BA37
8PQ3000-0BA10	8PQ3000-0BA10	-	-	-	-
8PQ3000-3BA10	8PQ3000-3BA47	-	-	8PQ3000-0BA03	8PQ3000-1BA36
8PQ3000-3BA11	8PQ3000-3BA48	8PQ3000-0BA03	8PQ3000-1BA37	8PQ3000-0BA03	8PQ3000-1BA37

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Frame

Accessories

Frame reinforcement					
	Use			Scope of supply	Article No.
1	For frame widths from	For frame widths from 1000 mm			8PQ9400-0BA35
Crossbars					
	Version	Width	Crossbar length	Scope of supply	Article No.
	-	400 mm	350 mm	2 units	8PQ3000-0BA12
		600 mm	550 mm	2 units	8PQ3000-0BA71
		800 mm	750 mm	2 units	8PQ3000-0BA72
		1000 mm	950 mm	2 units	8PQ3000-0BA84
		1200 mm	1150 mm	2 units	8PQ3000-0BA85
	Version	Depth	Crossbar length		Article No.
/A	Without uprights	400 mm	300 mm	2 units	8PQ3000-0BA10
		600 mm	500 mm	2 units	8PQ3000-1BA24
		800 mm	700 mm	2 units	8PQ3000-1BA25
HJV	With uprights	600 mm	300 mm	2 units	8PQ3000-0BA10
		800 mm	300 mm	2 units	8PQ3000-0BA10
Universal brackets					
	Version For mounting expansio			Scope of supply 1 unit	Article No. 8MF1000-2CP
Forming rows of frames	Version			Coope of comply	Autiala Na
3 \$	Mechanical connection	incl standard part		Scope of supply 6 units	Article No. 8PQ1204-4BA05
3 \$	Mechanical connection	, inci. standard part	.5	o units	6FQ1204-4BA03
11					
Board coupling gasket kits	Version			Scope of supply	Article No.
	To maintain degree of p	protection IPSS		Scope of supply 5.5 m	8PQ1204-4BA04
	To maintain degree or p	orotection iros		5.5 III	orQ1204-46A04
Self-tapping screws					
_	Version	Version		Scope of supply	Article No.
	Cylinder-head screws	M6 × 10 mm		100 units	8PQ9500-0BA34
		M6 × 16 mm		100 units	8PQ9500-0BA32
T30		M6 × 20 mm		100 units	8PQ9500-0BA31
	Covering caps	M6, RAL 7035		100 units	8PQ9400-0BA14
*/130	Countersunk screws	M6 × 12 mm		100 units	8PQ9500-1BA07

System overview, page 15/12

Enclosure

Paneling sections



Main busbar at top

Main busbar at bottom



Width	Depth	Height 100 mm	200 mm	Height 100 mm	IP40 cable entry	IP55	IP20
200 mm	400 mm	-	-	-	-	8PQ2302-4BA04	_
	600 mm	-	-	-	-	8PQ2302-6BA04	-
	800 mm	-	-	-	-	2× 8PQ2302-4BA04	_
400 mm	400 mm	8PQ1014-0BA01	8PQ1024-0BA01	8PQ1010-4BA01	8PQ2304-4BA06	8PQ2304-4BA05	8PQ2304-4BA14
	600 mm	8PQ1014-0BA01	8PQ1024-0BA01	8PQ1010-6BA01	8PQ2306-4BA06	8PQ2306-4BA05	8PQ2304-6BA11
	800 mm	8PQ1014-0BA01	8PQ1024-0BA01	8PQ1010-8BA01	2× 8PQ2304-4BA06	2× 8PQ2304-4BA05	8PQ2304-8BA05
600 mm	400 mm	8PQ1016-0BA01	8PQ1026-0BA01	8PQ1010-4BA01	8PQ2306-4BA06	8PQ2306-4BA05	8PQ2306-4BA10
	600 mm	8PQ1016-0BA01	8PQ1026-0BA01	8PQ1010-6BA01	8PQ2306-6BA06	8PQ2306-6BA05	8PQ2306-6BA16
	800 mm	8PQ1016-0BA01	8PQ1026-0BA01	8PQ1010-8BA01	2× 8PQ2306-4BA06	2× 8PQ2306-4BA05	8PQ2306-8BA05
800 mm	400 mm	8PQ1018-0BA01	8PQ1028-0BA01	8PQ1010-4BA01	8PQ2308-4BA06	8PQ2308-4BA05	8PQ2308-4BA13
	600 mm	8PQ1018-0BA01	8PQ1028-0BA01	8PQ1010-6BA01	8PQ2308-6BA06	8PQ2308-6BA05	8PQ2308-6BA13
	800 mm	8PQ1018-0BA01	8PQ1028-0BA01	8PQ1010-8BA01	2× 8PQ2308-4BA06	2× 8PQ2308-4BA05	8PQ2308-8BA10
1000 mm	400 mm	8PQ1011-0BA01	8PQ1021-0BA01	8PQ1010-4BA01	-	8PQ2301-4BA04	8PQ2301-4BA06
	600 mm	8PQ1011-0BA01	8PQ1021-0BA01	8PQ1010-6BA01	-	-	8PQ2301-6BA05
	800 mm	8PQ1011-0BA01	8PQ1021-0BA01	8PQ1010-8BA01	-	2× 8PQ2301-4BA04	8PQ2301-8BA04
1200 mm	400 mm	8PQ1012-0BA01	8PQ1022-0BA01	8PQ1010-4BA01	-	-	8PQ2302-4BA05
	600 mm	8PQ1012-0BA01	8PQ1022-0BA01	8PQ1010-6BA01	-	-	8PQ2302-6BA05
	800 mm	8PQ1012-0BA01	8PQ1022-0BA01	8PQ1010-8BA01	-	-	8PQ2302-8BA04

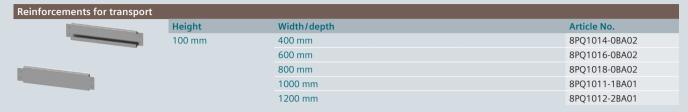


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Enclosure

Paneling sections

Accessories



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Enclosure

Paneling sections





Hinge position	Width	IP40	IP55	IP55 glass doors	IP40	IP55	IP30
With double-bit	t lock						
Left	200 mm	-	-	-	8PQ2197-2BA15	8PQ2197-2BA14	-
	400 mm	8PQ2197-4BA08	8PQ2197-4BA05	-	8PQ2197-4BA02	8PQ2197-4BA01	-
	600 mm	8PQ2197-6BA06	8PQ2197-6BA03	8PQ2197-6BA10	-	-	8PQ2197-6BA11
	800 mm	8PQ2197-8BA06	8PQ2197-8BA03	8PQ2197-8BA10	-	-	8PQ2197-8BA11
	1000 mm	8PQ2197-1BA06	8PQ2197-1BA03	8PQ2197-1BA10	-	-	-
Right	200 mm	-	-	-	8PQ2197-2BA15	8PQ2197-2BA14	_
	400 mm	8PQ2197-4BA11	8PQ2197-4BA10	-	8PQ2197-4BA02	8PQ2197-4BA01	_
	600 mm	8PQ2197-6BA13	8PQ2197-6BA12	8PQ2197-6BA14	-	-	8PQ2197-6BA11
	800 mm	8PQ2197-8BA13	8PQ2197-8BA12	8PQ2197-8BA14	-	-	8PQ2197-8BA11
	1000 mm	8PQ2197-1BA18	8PQ2197-1BA17	8PQ2197-1BA20	-	-	-
For profile semi	icylinder						
Left	200 mm	-	-	-	8PQ2197-2BA15	8PQ2197-2BA14	_
	400 mm	8PQ2197-4BA06	8PQ2197-4BA03	-	8PQ2197-4BA02	8PQ2197-4BA01	-
	600 mm	8PQ2197-6BA04	8PQ2197-6BA01	8PQ2197-6BA07	-	-	8PQ2197-6BA11
	800 mm	8PQ2197-8BA04	8PQ2197-8BA01	8PQ2197-8BA07	-	-	8PQ2197-8BA11
	1000 mm	8PQ2197-1BA07	8PQ2197-1BA04	8PQ2197-1BA11	-	-	
Right	200 mm	-	-	-	8PQ2197-2BA15	8PQ2197-2BA14	_
	400 mm	8PQ2197-4BA07	8PQ2197-4BA04	-	8PQ2197-4BA02	8PQ2197-4BA01	_
	600 mm	8PQ2197-6BA05	8PQ2197-6BA02	8PQ2197-6BA08	-	-	8PQ2197-6BA11
	800 mm	8PQ2197-8BA05	8PQ2197-8BA02	8PQ2197-8BA08	-	-	8PQ2197-8BA11
	1000 mm	8PQ2197-1BA08	8PQ2197-1BA05	8PQ2197-1BA12	-	-	

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Accessories

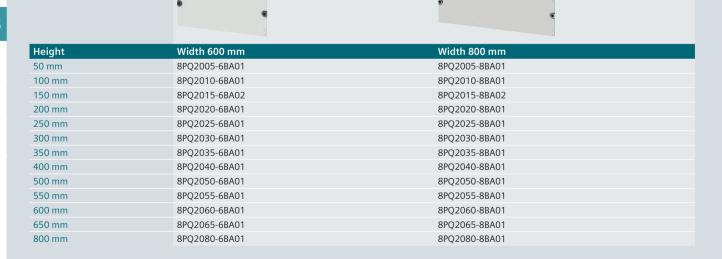
Cubicle keys			
Lubicie keys	Version	Scope of supply	Article No.
	3 mm double bit	10 units	8PQ9400-0BA12
	5 mm dodale an	To units	01 Q 3 4 0 0 0 B/(12
nner door struts			
	Height		Article No.
	1975 mm		8PQ2197-0BA10
ubicle ID plate			_
	Version		Article No.
SIEMENS	SIVACON designed by Siemens		8PQ9400-0BA06
at cylinders/two-way i	nterlocking mechanism		
	Version		Article No.
A .	Rotary handles with flat cylinder		8PQ9400-0BA07
	With key		
1	Identical key type		
- M	Rotary handles with two-way interlocking mechanism		8PQ9400-0BA08
			0. 43 100 02/100
	Coupling bars		8PQ9400-0BA27
	Locking rods		8PQ9400-0BA37
	Bar guides		8PQ9400-0BA36
rofile semicylinders			
	Version		Article No.
	Rotary handles for profile semicylinders		8PQ9400-0BA41
	Coupling bars		8PQ9400-0BA28
	Locking rods		8PQ9400-0BA38
	Bar guides		8PQ9400-0BA36
309	Profile semicylinders Acc. to DIN 18252/18254, $8\times45^\circ$ adjustable, with identical keys (key number 333), including key		8PQ9400-0BA26
oor hinges			
70	Version	Scope of supply	Article No.
0. 10	Suitable for modular or section doors	2 units	8PQ9400-0BA55

Enclosure

Internal covers







Blanking covers

Accessories

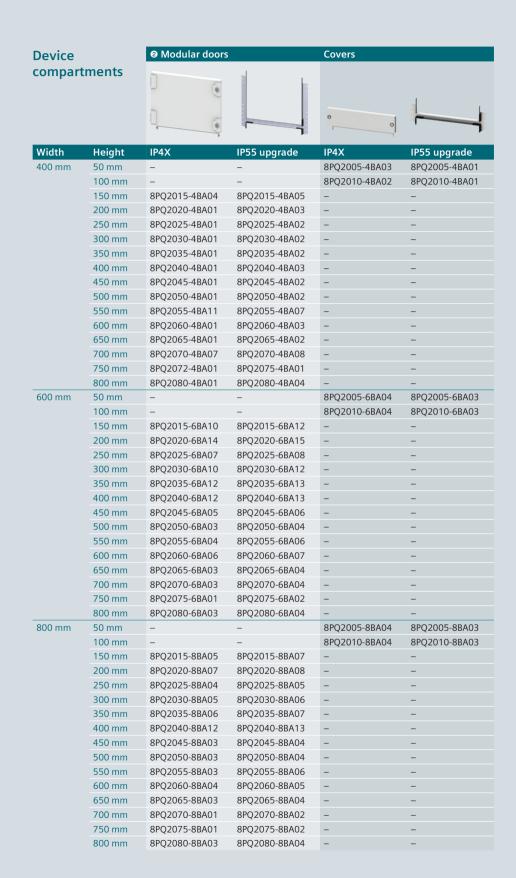
4 Covers, ventilated				
	Height	Width		Article No.
•	100 mm	600 mm		8PQ2010-6BA02
		800 mm		8PQ2010-8BA02
Quick-release lock				
	Version		Scope of supply	Article No.
	SIVACON - Blue green b	pasic	20 units	8PQ9400-0BA54
Hinges for covers				
	Version		Scope of supply	Article No.
	Set for one cover		2 units	8PQ2000-0BA08

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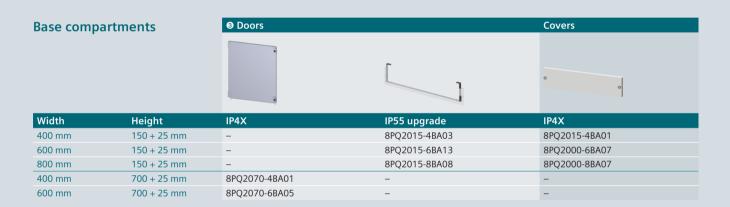
Enclosure

Modular doors





O Doors Covers **Head compartments** Width IP4X IP4X Height IP55 upgrade Main busbar at top 8PQ2022-4BA03 400 mm 225 mm 8PQ2022-4BA04 8PQ2022-4BA01 600 mm 225 mm 8PQ2022-6BA04 8PQ2022-6BA02 8PQ2022-6BA01 800 mm 225 mm 8PQ2022-8BA03 8PQ2022-8BA02 8PQ2022-8BA01 Main busbar at bottom 8PQ2022-4BA03 8PQ2000-4BA03 400 mm 175 mm 600 mm 175 mm 8PQ2022-6BA02 8PQ2000-6BA10 800 mm 8PQ2022-8BA02 8PQ2000-8BA10 175 mm 400 mm 725 mm 8PQ2072-4BA02 8PQ2070-4BA06 600 mm 8PQ2072-6BA01 8PQ2070-6BA11 725 mm



Enclosure

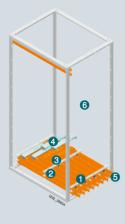
Modular doors

Accessories

Door hinges			
	Version	Scope of supply	Article No.
70.	Suitable for modular or section doors	2 units	8PQ9400-0BA55
Locks			
1 30	Version		Article No.
	Two-way interlocking mechanisms		8PQ9400-0BA40
Handles for modular door			
	Version		Article No.
	Without lock		8PQ9400-0BA73
	With flat cylinder, identical key type		8PQ9400-0BA72
ID strips			
	Width	Scope of supply	Article No.
	400 mm	6 units	8PQ5000-3BA42
	600 mm	6 units	8PQ5000-3BA43
	800 mm	6 units	8PQ5000-3BA46
Inner door struts			
	Height		Article No.
	400 mm		8PQ2040-0BA06
	550 mm		8PQ2055-0BA05
	600 mm		8PQ2060-0BA14
	625 mm		8PQ2060-0BA14
	700 mm		8PQ2070-0BA02
	725 mm		8PQ2070-0BA02
	800 mm		8PQ2080-0BA07
Cubicle keys			
	Version	Scope of supply	Article No.
The state of the s	3 mm double bit	10 units	8PQ9400-0BA12

Busbar systems

Main busbars



	Busbar support	orts	⊘ Reinforceme	nt	 	⊙ Covers	ூ PEN grounding	Arcing fault barriers
			*		HAL			4
Position	Up to 3200 A	Up to 4000 A	Up to 3200 A	Up to 4000 A				
Тор	8PQ4000-0BA04	8PQ4000-0BA60	8PQ4000-0BA37	2× 8PQ4000-0BA37	8PQ4000-0BA62	-	8PQ4000-0BA12	8PQ9400-0BA21
Bottom	8PQ4000-0BA04	8PQ4000-0BA60	8PQ4000-0BA37	2× 8PQ4000-0BA37	8PQ4000-0BA62	8PQ4000-1BA25	8PQ4000-0BA12	8PQ9400-0BA21
Rear	8PQ4000-0BA04 + 8PQ3000-0BA10	-	8PQ4000-0BA37	-	-	-	8PQ4000-2BA24	8PQ9400-0BA21

N/PE bars



Vertical distribution busbars, cascaded, up to $I_{cw} = 65 \text{ kA}$





	Busbar supports		② Supports
	100		
Position of main busbar	30 × 10 mm, 910 – 1600 A	40 × 10 mm, 1100 – 1640 A	
Тор	8PQ4000-0BA32	8PQ4000-0BA63	-
Bottom	8PQ4000-0BA32	8PQ4000-0BA63	8PQ4000-1BA23

Accessories

Connection				
	Component	Version	Scope of supply	Article No.
	Busbar clamps	-	20 units	8PQ9400-0BA02
C-matte	Saucer-head bolts	M10 × 35 mm	50 units	8PQ9500-0BA14
		M10 × 45 mm	50 units	8PQ9500-0BA16
		M10 × 55 mm	50 units	8PQ9500-1BA36
		M10 × 65 mm	50 units	8PQ9500-1BA25
	Spring washers	For M10	50 units	8PQ9500-0BA60
0	Hexagonal nuts	M10	50 units	8PQ9500-0BA05

Vertical distribution busbars, non- cascaded, up to $I_{cw} = 100 \text{ kA}$

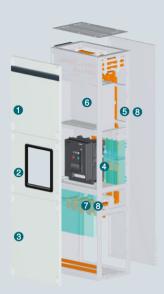


		Busbar supports	Reinforcement	⊗ Supports
			*	
Position of main busbar	Width			
Тор	200 mm	8PQ4000-2BA25	8PQ4000-0BA37	8PQ4000-0BA78
	400 mm	8PQ4000-2BA26	8PQ4000-0BA37	8PQ4000-0BA61
Bottom	200 mm	8PQ4000-2BA25	8PQ4000-0BA37	-
	400 mm	8PQ4000-2BA26	8PQ4000-0BA37	-

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Air circuit breakers 3WL, infeed main busbar at top





Installation Size

Width



type					upgrade			upgrade				
Fixed- mounted	1	600 mm	400 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06				
			600 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06				
			800 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06				
	II	800 mm	600 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06				
			800 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06				
	III	1000 mm	800 mm	8PQ2067-1BA01	8PQ2067-1BA02	8PQ2055-1BA03 + 3WL9111-0AP01-0AA0	8PQ2055-1BA04 + 3WL9111-0AP02-0AA0	8PQ2055-1BA06				
Withdraw- able		l 600 mm	600 mm	600 mm	600 mm	400 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06	
			600 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06				
			800 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06				
	II	800 mm	600 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06				
			800 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06				
	III	1000 mm	800 mm	8PQ2067-1BA01	8PQ2067-1BA02	8PQ2055-1BA03 + 3WL9111-0AP01-0AA0	8PQ2055-1BA04 + 3WL9111-0AP02-0AA0	8PQ2055-1BA06				

Technical specifications

Rated operational current I_{ec}

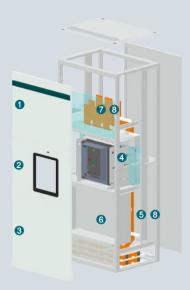
		Ventilat	/entilated IP40								Non-ventilated IP55					
Size	l _n	20 °C	25 °C	30 °C	35 ℃	40 °C	45 °C	50 °C	20 °C	25 °C	30 °C	35 ℃	40 °C	45 °C	50 °C	
1	1600 A	1600 A	1600 A	1590 A	1550 A	1510 A	1460 A	1420 A	1370 A	1340 A	1310 A	1270 A	1240 A	1200 A	1170 A	
	2000 A	2000 A	2000 A	1990 A	1940 A	1890 A	1830 A	1780 A	1720 A	1680 A	1640 A	1590 A	1550 A	1510 A	1460 A	
II	2000 A	2000 A	2000 A	2000 A	2000 A	2000 A	2000 A	2000 A	1960 A	1920 A	1870 A	1820 A	1780 A	1730 A	1670 A	
	3200 A	2850 A	2790 A	2720 A	2650 A	2580 A	2510 A	2430 A	2260 A	2210 A	2160 A	2100 A	2050 A	1990 A	1930 A	
III	4000 A	4000 A	4000 A	4000 A	4000 A	3950 A	3870 A	3780 A	3230 A	3150 A	3080 A	3000 A	2920 A	2840 A	2750 A	

Base compartmer	nt doors	Mounting plates		⊙ Separation 4b	Cable connection	9 Insulation	
						0000	
IP40	IP55 upgrade						
8PQ2075-6BA01	8PQ2075-6BA03	8PQ6000-5BA26	8PQ6000-6BA75	8PQ5000-4BA28	8PQ6000-5BA81	-	
8PQ2075-6BA01	8PQ2075-6BA03	8PQ6000-5BA26	8PQ6000-6BA75	8PQ5000-4BA30	8PQ6000-5BA81	-	
8PQ2075-6BA01	8PQ2075-6BA03	8PQ6000-5BA26	8PQ6000-6BA75	8PQ5000-4BA31	8PQ6000-5BA81	-	
8PQ2075-8BA01	8PQ2075-8BA03	8PQ6000-5BA24	8PQ6000-6BA76	8PQ5000-4BA32	8PQ6000-5BA83	-	
8PQ2075-8BA01	8PQ2075-8BA03	8PQ6000-5BA24	8PQ6000-6BA76	8PQ5000-4BA33	8PQ6000-5BA83	-	
8PQ2075-1BA01	8PQ2075-1BA02	8PQ6000-5BA23	8PQ6000-5BA33	8PQ5000-5BA11	8PQ6000-5BA84	-	
8PQ2075-6BA01	8PQ2075-6BA03	8PQ6000-5BA26	8PQ6000-6BA75	8PQ5000-4BA28	8PQ6000-5BA82	8PQ6000-7BA28	
8PQ2075-6BA01	8PQ2075-6BA03	8PQ6000-5BA26	8PQ6000-6BA75	8PQ5000-4BA30	8PQ6000-5BA82	8PQ6000-7BA28	
8PQ2075-6BA01	8PQ2075-6BA03	8PQ6000-5BA26	8PQ6000-6BA75	8PQ5000-4BA31	8PQ6000-5BA82	8PQ6000-7BA28	
8PQ2075-8BA01	8PQ2075-8BA03	8PQ6000-5BA24	8PQ6000-6BA76	8PQ5000-4BA32	8PQ6000-5BA83	-	
8PQ2075-8BA01	8PQ2075-8BA03	8PQ6000-5BA24	8PQ6000-6BA76	8PQ5000-4BA33	8PQ6000-5BA83	-	
8PQ2075-1BA01	8PQ2075-1BA02	8PQ6000-5BA23	8PQ6000-5BA33	8PQ5000-5BA11	8PQ6000-5BA84	-	

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3WL air circuit breakers, infeed main busbar at bottom





Installation Size

Width

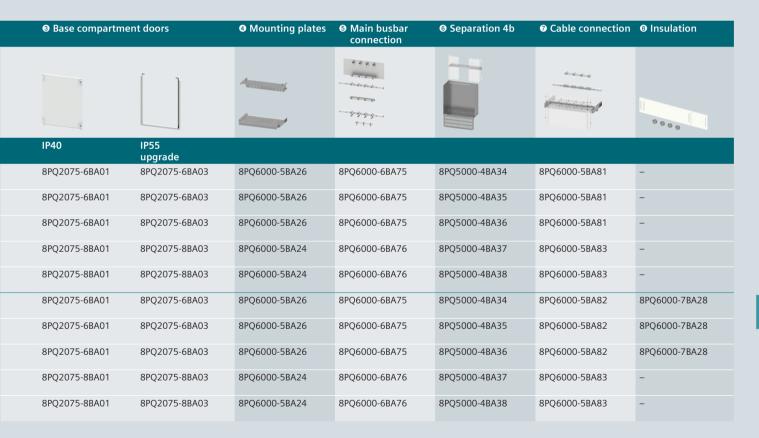


type					upgrade			upgrade	
Fixed- mounted	1	600 mm	400 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06	
			600 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06	
			800 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06	
	П	800 mm	600 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06	
			800 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06	
Withdraw- able	1	600 mm	400 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06	
			600 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06	
			800 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06	
	П	800 mm	600 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06	
			800 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06	

Technical specifications

Rated operational current I_{ec}

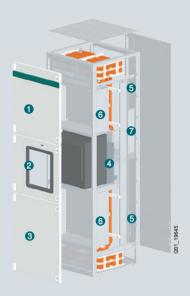
		Ventilat	ted IP40					Non-ventilated IP55							
Size	l _n	20 °C	25 °C	30 °C	35 ℃	40 °C	45 °C	50 °C	20 °C	25 °C	30 °C	35 ℃	40 °C	45 °C	50 °C
1	1600 A	1540 A	1500 A	1470 A	1430 A	1390 A	1350 A	1310 A	1390 A	1350 A	1320 A	1290 A	1240 A	1190 A	1140 A
	2000 A	1930 A	1880 A	1840 A	1790 A	1740 A	1690 A	1640 A	1710 A	1670 A	1630 A	1590 A	1530 A	1470 A	1410 A
II	2000 A	2000 A	2000 A	2000 A	2000 A	1990 A	1920 A	1830 A	2000 A	1950 A	1880 A	1820 A	1750 A	1680 A	1610 A
	3200 A	2710 A	2640 A	2570 A	2490 A	2400 A	2300 A	2200 A	2320 A	2250 A	2180 A	2100 A	2030 A	1950 A	1860 A



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3WL air circuit breakers, coupling







Installation type	Size	Width	Depth	IP40	IP55 upgrade	IP4X	IP55	IP55 upgrade
Fixed- mounted	1	600 mm	400 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06
			600 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06
			800 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06
	П	800 mm	600 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06
			800 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06
Withdraw- able	1	600 mm	400 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06
			600 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06
			800 mm	8PQ2067-6BA01	8PQ2067-6BA02	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0	8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ2055-6BA06
	П	800 mm	600 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06
			800 mm	8PQ2067-8BA01	8PQ2067-8BA02	8PQ2055-8BA08 + 3WL9111-0AP01-0AA0	8PQ2055-8BA10 + 3WL9111-0AP02-0AA0	8PQ2055-8BA06

Technical specifications

Rated operational current I_{ec}

		Ventilat	/entilated IP40						Non-ventilated IP55						
Size	I _n	20 °C	25 °C	30 °C	35 ℃	40 °C	45 °C	50 °C	20 °C	25 °C	30 °C	35 ℃	40 °C	45 °C	50 °C
1	1600 A	1540 A	1500 A	1470 A	1430 A	1390 A	1350 A	1310 A	1390 A	1350 A	1320 A	1290 A	1240 A	1190 A	1140 A
	2000 A	1930 A	1880 A	1840 A	1790 A	1740 A	1690 A	1640 A	1710 A	1670 A	1630 A	1590 A	1530 A	1470 A	1410 A
II	2000 A	2000 A	2000 A	2000 A	2000 A	1990 A	1920 A	1830 A	2000 A	1950 A	1880 A	1820 A	1750 A	1680 A	1610 A
	3200 A	2710 A	2640 A	2570 A	2490 A	2400 A	2300 A	2200 A	2320 A	2250 A	2180 A	2100 A	2030 A	1950 A	1860 A

⊗ Base co	⊗ Base compartment doors		Mounting plates	Main busbar connection	6 Separation 4b	② Uprights	
				2222 2333 244			
IP40	ا	IP55 upgrade					
8PQ2075-	6BA01 8	8PQ2075-6BA03	8PQ6000-5BA26	2× 8PQ6000-6BA75	8PQ5000-5BA12	-	
8PQ2075-	6BA01 8	8PQ2075-6BA03	8PQ6000-5BA26	2× 8PQ6000-6BA75	8PQ5000-5BA13	2× 8PQ3000-3BA50	
8PQ2075-	6BA01 8	8PQ2075-6BA03	8PQ6000-5BA26	2× 8PQ6000-6BA75	8PQ5000-5BA14	2× 8PQ3000-3BA51	
8PQ2075-	8BA01 8	8PQ2075-8BA03	8PQ6000-5BA24	2× 8PQ6000-6BA76	8PQ5000-5BA15	2× 8PQ3000-3BA50	
8PQ2075-	8BA01 8	8PQ2075-8BA03	8PQ6000-5BA24	2× 8PQ6000-6BA76	8PQ5000-5BA16	2× 8PQ3000-3BA51	
8PQ2075-	6BA01 8	8PQ2075-6BA03	8PQ6000-5BA26	2× 8PQ6000-6BA75	8PQ5000-5BA12	-	
8PQ2075-	6BA01 8	8PQ2075-6BA03	8PQ6000-5BA26	2× 8PQ6000-6BA75	8PQ5000-5BA13	2× 8PQ3000-3BA50	
8PQ2075-	6BA01 8	8PQ2075-6BA03	8PQ6000-5BA26	2× 8PQ6000-6BA75	8PQ5000-5BA14	2× 8PQ3000-3BA51	
8PQ2075-8	8BA01 8	8PQ2075-8BA03	8PQ6000-5BA24	2× 8PQ6000-6BA76	8PQ5000-5BA15	2× 8PQ3000-3BA50	
8PQ2075-	8BA01 8	8PQ2075-8BA03	8PQ6000-5BA24	2× 8PQ6000-6BA76	8PQ5000-5BA16	2× 8PQ3000-3BA51	

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Modular doors

Mounting plates	Modular doors

Installation type	Size	Width	Number of poles	Rated current		IP4X
Fixed-mounted	1	400 mm	3-pole	1600 A	8PQ6000-5BA25	8PQ2055-4BA12 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-5BA25	8PQ2055-4BA12 + 3WL9111-0AP01-0AA0
		600 mm	4-pole	1600 A	8PQ6000-5BA26	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-5BA26	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0
Withdrawablet	1	400 mm	3-pole	1600 A	8PQ6000-5BA25	8PQ2055-4BA12 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-5BA25	8PQ2055-4BA12 + 3WL9111-0AP01-0AA0
		600 mm	4-pole	1600 A	8PQ6000-5BA26	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-5BA26	8PQ2055-6BA16 + 3WL9111-0AP01-0AA0

Covers



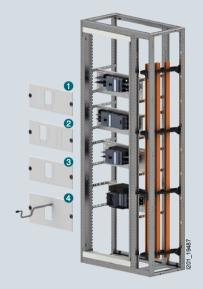
Installation type	Size	Width	Number of poles	Rated current		IP4X
Fixed-mounted	1	600 mm	3-pole	1600 A	8PQ6000-3BA31	8PQ2055-6BA05 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-3BA31	8PQ2055-6BA05 + 3WL9111-0AP01-0AA0
			4-pole	1600 A	8PQ6000-3BA31	8PQ2055-6BA07 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-3BA31	8PQ2055-6BA07 + 3WL9111-0AP01-0AA0
		800 mm	3/4-pole	1600 A	8PQ6000-3BA32	8PQ2055-8BA04 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-3BA32	8PQ2055-8BA04 + 3WL9111-0AP01-0AA0
Withdrawable	1	600 mm	3-pole	1600 A	8PQ6000-3BA31	8PQ2055-6BA05 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-3BA31	8PQ2055-6BA05 + 3WL9111-0AP01-0AA0
			4-pole	1600 A	8PQ6000-3BA31	8PQ2055-6BA07 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-3BA31	8PQ2055-6BA07 + 3WL9111-0AP01-0AA0
		800 mm	3/4-pole	1600 A	8PQ6000-3BA32	8PQ2055-8BA04 + 3WL9111-0AP01-0AA0
				2000 A	8PQ6000-3BA32	8PQ2055-8BA04 + 3WL9111-0AP01-0AA0

	Section busbars	Cable connection	6 Device compartment		Section busbars
			Separation, form 3	Separation, form 4	Separation, form 4
	March .	444	4.		and the same of th
	A service of				THE PERSON NAMED IN
	,+++	A state of			
]					THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS AND PERSON NAMED IN COLUMN TWO PERSONS AND PERSON NAMED IN COLUMN TWO PERSON NAMED I
IP55					
-	8PQ6000-5BA48	8PQ6000-5BA78	8PQ5000-3BA82	8PQ5000-3BA84	8PQ5000-3BA84
-	8PQ6000-7BA05	8PQ6000-5BA78	8PQ5000-3BA82	8PQ5000-4BA00	8PQ5000-3BA85
8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ6000-5BA51	8PQ6000-5BA81	8PQ5000-3BA82	8PQ5000-3BA86	8PQ5000-3BA86
8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ6000-7BA07	8PQ6000-5BA81	8PQ5000-3BA82	8PQ5000-4BA01	8PQ5000-3BA87
-	8PQ6000-5BA50	8PQ6000-5BA80	8PQ5000-3BA82	8PQ5000-3BA84	8PQ5000-3BA84
-	8PQ6000-7BA06	8PQ6000-5BA80	8PQ5000-3BA82	8PQ5000-4BA00	8PQ5000-3BA85
8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ6000-5BA52	8PQ6000-5BA82	8PQ5000-3BA82	8PQ5000-3BA86	8PQ5000-3BA86
8PQ2055-6BA17 + 3WL9111-0AP02-0AA0	8PQ6000-7BA08	8PQ6000-5BA82	8PQ5000-3BA82	8PQ5000-4BA01	8PQ5000-3BA87
	Section busbars	Cable connection		Cable connection	
			Separation, form 3	Separation, form 4	Separation, form 4
	No.				
	No.	0 0 0	Min ne		
	distribution .				
	minimization				
		- State of the sta			
	8PQ6000-5BA45	8PQ6000-5BA75	8PQ5000-0BA08	8PQ5000-0BA30	8PQ5000-0BA14
	8PQ6000-5BA45 8PQ6000-7BA03	8PQ6000-5BA75 8PQ6000-5BA75	8PQ5000-0BA08 8PQ5000-0BA08	8PQ5000-0BA30 8PQ5000-0BA30	8PQ5000-0BA14 8PQ5000-0BA14
		`	·	,	`
	8PQ6000-7BA03	8PQ6000-5BA75	8PQ5000-0BA08	8PQ5000-0BA30	8PQ5000-0BA14
	8PQ6000-7BA03 8PQ6000-5BA45	8PQ6000-5BA75 8PQ6000-5BA75	8PQ5000-0BA08 8PQ5000-0BA08	8PQ5000-0BA30 8PQ5000-0BA30	8PQ5000-0BA14 8PQ5000-0BA14
	8PQ6000-7BA03 8PQ6000-5BA45 8PQ6000-7BA03	8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA75	8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-0BA08	8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-0BA30	8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-0BA14
	8PQ6000-7BA03 8PQ6000-5BA45 8PQ6000-7BA03 8PQ6000-5BA46	8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA76	8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-1BA65	8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-1BA68	8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-1BA67
	8PQ6000-7BA03 8PQ6000-5BA45 8PQ6000-7BA03 8PQ6000-5BA46 8PQ6000-7BA04	8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA76 8PQ6000-5BA76	8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-1BA65 8PQ5000-1BA65	8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-1BA68 8PQ5000-1BA68	8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-1BA67 8PQ5000-1BA67
	8PQ6000-7BA03 8PQ6000-5BA45 8PQ6000-7BA03 8PQ6000-5BA46 8PQ6000-7BA04 8PQ6000-5BA45	8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA76 8PQ6000-5BA76 8PQ6000-5BA75	8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-1BA65 8PQ5000-1BA65 8PQ5000-0BA07	8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-1BA68 8PQ5000-1BA68 8PQ5000-0BA30	8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-1BA67 8PQ5000-1BA67 8PQ5000-0BA14
	8PQ6000-7BA03 8PQ6000-5BA45 8PQ6000-7BA03 8PQ6000-5BA46 8PQ6000-7BA04 8PQ6000-5BA45 8PQ6000-7BA03	8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA76 8PQ6000-5BA76 8PQ6000-5BA75 8PQ6000-5BA75	8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-1BA65 8PQ5000-1BA65 8PQ5000-0BA07 8PQ5000-0BA07	8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-1BA68 8PQ5000-1BA68 8PQ5000-0BA30 8PQ5000-0BA30	8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-1BA67 8PQ5000-1BA67 8PQ5000-0BA14 8PQ5000-0BA14
	8PQ6000-7BA03 8PQ6000-5BA45 8PQ6000-7BA03 8PQ6000-5BA46 8PQ6000-7BA04 8PQ6000-5BA45 8PQ6000-7BA03 8PQ6000-5BA45	8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA76 8PQ6000-5BA76 8PQ6000-5BA75 8PQ6000-5BA75 8PQ6000-5BA75	8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-0BA08 8PQ5000-1BA65 8PQ5000-1BA65 8PQ5000-0BA07 8PQ5000-0BA07 8PQ5000-0BA07	8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-1BA68 8PQ5000-1BA68 8PQ5000-0BA30 8PQ5000-0BA30 8PQ5000-0BA30	8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-1BA67 8PQ5000-1BA67 8PQ5000-0BA14 8PQ5000-0BA14 8PQ5000-0BA14

3WL air circuit breakers, accessories

			Busbar holders	Busbar connections
			1 set = 4 holders	For use with SIVACON 8PS
Size	Width	Number of poles		
T	600 mm	3, 4	8PQ6000-4BA35	8PQ3000-1BA70
	800 mm	3, 4	8PQ6000-4BA37	8PQ3000-1BA71
П	600 mm	3	8PQ6000-4BA36	8PQ3000-1BA70
	800 mm	3, 4	8PQ6000-4BA38	8PQ3000-1BA71
III	1000 mm	3, 4	8PQ6000-4BA40	8PQ3000-1BA72

3VA molded case circuit breakers, internal cover, horizontal, 3-pole





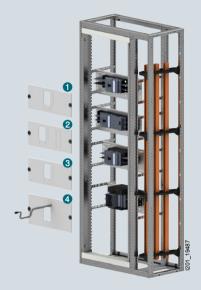


Type	l _n	Width	Height	Operatir	ng mechanis	sm	Device holders				
				Direct	Rotary	Motorized					
3VA10	100 A	600 mm	150 mm			-	8PQ6000-8BA01				
		800 mm	150 mm			_	8PQ6000-8BA02				
3VA11	160 A	600 mm	150 mm	•	•	-	8PQ6000-8BA01				
		800 mm	150 mm				8PQ6000-8BA02				
3VA12	250 A	600 mm	150 mm	•	•	-	8PQ6000-8BA03				
					-		-				
		800 mm	200 mm				8PQ6000-8BA07				
					-		-				
3VA20	100 A	600 mm	200 mm				8PQ6000-8BA08				
					-		_				
		800 mm	200 mm				8PQ6000-8BA10				
					-		-				
3VA21	160 A	600 mm	200 mm				8PQ6000-8BA08				
				•	-		-				
		800 mm	200 mm	•			8PQ6000-8BA10				
					-		-				
3VA22	250 A	600 mm	200 mm				8PQ6000-8BA08				
					-		-				
						800 mm	200 mm				8PQ6000-8BA10
					_		-				
3VA23	400 A	600 mm	200 mm				8PQ6000-8BA23				
					-	_	-				
		800 mm	250 mm				8PQ6000-8BA27				
					_	_	-				
3VA24	630 A	600 mm	200 mm				8PQ6000-8BA23				
					-	-	-				
		800 mm	250 mm	•	•		8PQ6000-8BA27				
					-	-	-				

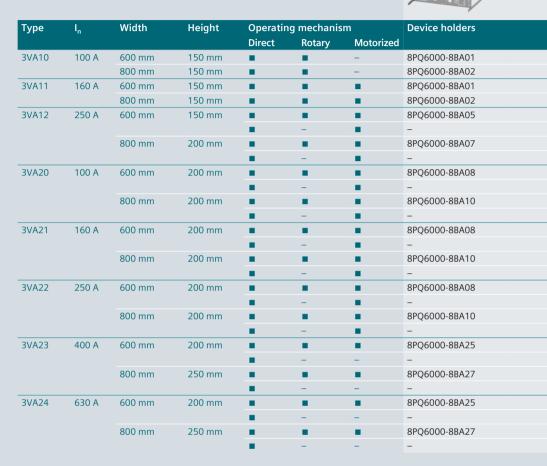


¹⁾ For applications >415 V, front mounted rotary operating mechanism or motorized operating mechanism required for compliance with safety clearances.

3VA molded case circuit breakers, internal cover, horizontal, 4-pole







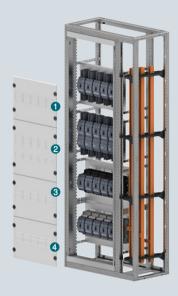


¹⁾ For applications >415 V, front mounted rotary operating mechanism or motorized operating mechanism required for compliance with safety clearances.

Accessories

N-Link		
	Version	Article No.
41.0	3VA10 (up to 100 A); 3VA11 (up to 160 A), 3VA12 (up to 250 A)	8PQ6000-8BA31
A STATE OF THE STA	3VA23 (up to 400 A); 3VA24 (up to 630 A)	8PQ6000-8BA32

3VA molded case circuit breakers, internal cover, vertical, 3-pole





Туре	l _n	No. of switching	Width	Height	Operati	ing mech	anism	Device holders
		devices			Direct	Rotary	Motorized	
3VA10	100 A	5	600 mm	350 mm		•	-	8PQ6000-8BA33
		7	800 mm	350 mm			-	8PQ6000-8BA47
3VA11	160 A	5	600 mm	350 mm	•	•	•	8PQ6000-8BA33
				450 mm				-
		7	800 mm	350 mm				8PQ6000-8BA47
				450 mm				-
3VA12	250 A	3	600 mm	400 mm				8PQ6000-8BA35
				500 mm				-
		5	800 mm	400 mm				8PQ6000-8BA43
				500 mm			•	-
3VA20	100 A	3	600 mm	450 mm			-	8PQ6000-8BA37
					-	-		8PQ6000-8BA37
				550 mm			-	-
					-	-		-
	5	800 mm	450 mm			-	8PQ6000-8BA50	
					-	-		8PQ6000-8BA50
			550 mm	•	•		-	
					-	-		_
3VA21 160 A	3	600 mm	450 mm			-	8PQ6000-8BA37	
					-	-		-
				550 mm			-	-
		5	800 mm	450 mm			-	-
					-	-		8PQ6000-8BA50
				550 mm	•	•	_	_
3VA22	250 A	3	600 mm	450 mm			-	8PQ6000-8BA37
					-	-		-
				550 mm				-
		5	800 mm	450 mm			-	8PQ6000-8BA50
					-	-		-
				550 mm			-	-
3VA23	400 A	3	600 mm	450 mm	•		•	8PQ6000-8BA54
				600 mm	•	•	•	-
		4	800 mm	450 mm	•		•	8PQ6000-8BA57
				600 mm			•	-
3VA24	630 A	3	600 mm	450 mm	•	•	•	8PQ6000-8BA54
				600 mm	•			-
		4	800 mm	450 mm	•		•	8PQ6000-8BA57
				600 mm				-



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3VA molded case circuit breakers, internal cover, vertical, 4-pole





Туре	I _n	No. of switching	Width	Height		ng mecha		Device holders
		devices			Direct	Rotary	Motorized	
3VA10	100 A	4	600 mm	350 mm	•	•	-	8PQ6000-8BA34
		5	800 mm	350 mm	•	•	-	8PQ6000-8BA48
3VA11	160 A	4	600 mm	350 mm	•	•	•	8PQ6000-8BA34
				450 mm	•	•	•	-
		5	800 mm	350 mm	•	•	•	8PQ6000-8BA48
				450 mm	•		•	-
3VA12	250 A	3	600 mm	400 mm	•	•		8PQ6000-8BA35
				500 mm	•	•	•	-
		4	800 mm	400 mm		•		8PQ6000-8BA45
				500 mm	•	•	•	-
3VA20	100 A	3	600 mm	450 mm	•		-	8PQ6000-8BA37
					-	_		8PQ6000-8BA37
				550 mm	•	•	-	-
					-	-		-
		4	800 mm	450 mm	•	•		8PQ6000-8BA52
					-	-		8PQ6000-8BA52
				550 mm			-	-
					-	-		-
3VA21	160 A	3	600 mm	450 mm	•	•	-	8PQ6000-8BA37
					-	-		8PQ6000-8BA37
				550 mm			-	-
					-	-		-
		4	800 mm	450 mm			-	8PQ6000-8BA52
					-	-		-
				550 mm			_	-
					_	_	•	-
3VA22	250 A	3	600 mm	450 mm	•	•	_	8PQ6000-8BA37
					-	-		8PQ6000-8BA37
				550 mm		•	_	-
		4	800 mm	450 mm			_	8PQ6000-8BA52
					-	_		8PQ6000-8BA52
				550 mm			_	_
3VA23	400 A	2	600 mm	450 mm	•	•	•	8PQ6000-8BA64
				600 mm				_
		3	800 mm	450 mm				8PQ6000-8BA61
				600 mm				-
3VA24	630 A	2	600 mm	450 mm	•	•	•	8PQ6000-8BA64
				600 mm				-
		3	800 mm	450 mm			•	8PQ6000-8BA61
				600 mm				-



3VA molded case circuit breakers, internal cover, vertical



3-pole

Туре	I _n	No. of switchi	ng Width	Height	Operatir	ng mechani	sm	
		devices			Direct	Rotary	Motorized	
3VA10	100 A	5	600 mm	350 mm		-	_	
		8	800 mm	350 mm		-	_	
3VA11	160 A	4	600 mm	350 mm		_	_	
		5	800 mm	350 mm		-	_	

4-pole

Туре	I_n	No. of switching	Width	Height	Operating mechanism			
		devices			Direct	Rotary	Motorized	
3VA10	100 A	4	600 mm	350 mm	•	_	-	
		6	800 mm	350 mm		-	-	
3VA11	160 A	3	600 mm	350 mm		-	-	
		1	900 mm	250 mm	-			





3VA molded case circuit breakers, modular door, horizontal



3-pole



Туре	I _n	Width	Height	Device holders	Modular doors	
3VA10	100 A	600 mm	150 mm	8PQ6000-8BA01	8PQ2015-6BA31	
		800 mm	150 mm	8PQ6000-8BA02	8PQ2015-8BA12	
3VA11	160 A	600 mm	150 mm	8PQ6000-8BA01	8PQ2015-6BA31	
		800 mm	150 mm	8PQ6000-8BA02	8PQ2015-8BA12	
3VA12	250 A	600 mm	150 mm	8PQ6000-8BA03	8PQ2015-6BA34	
3VA20	100 A	600 mm	200 mm	8PQ6000-8BA08	8PQ2020-6BA44	
		800 mm	200 mm	8PQ6000-8BA10	8PQ2020-8BA23	
3VA21	160 A	600 mm	200 mm	8PQ6000-8BA08	8PQ2020-6BA44	
		800 mm	200 mm	8PQ6000-8BA10	8PQ2020-8BA23	
3VA22	250 A	600 mm	200 mm	8PQ6000-8BA08	8PQ2020-6BA44	
		800 mm	200 mm	8PQ6000-8BA10	8PQ2020-8BA23	
3VA23	400 A	600 mm	200 mm	8PQ6000-8BA23	8PQ2020-6BA46	
3VA24	630 A	600 mm	200 mm	8PQ6000-8BA23	8PQ2020-6BA46	

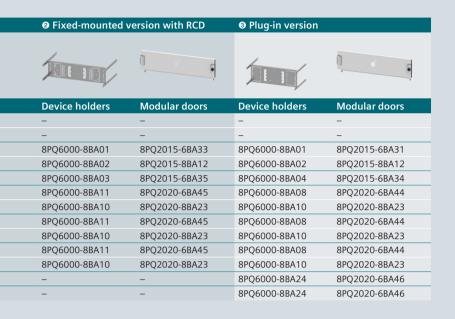
4-pole





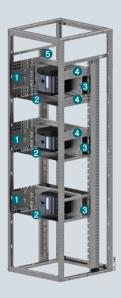


Type	I _n	Width	Height	Device holders	Modular doors
3VA10	100 A	600 mm	150 mm	8PQ6000-8BA01	8PQ2015-6BA31
		800 mm	150 mm	8PQ6000-8BA02	8PQ2015-8BA12
3VA11	160 A	600 mm	150 mm	8PQ6000-8BA01	8PQ2015-6BA31
		800 mm	150 mm	8PQ6000-8BA02	8PQ2015-8BA12
3VA12	250 A	600 mm	200 mm	8PQ6000-8BA05	8PQ2020-6BA42
		800 mm	200 mm	8PQ6000-8BA07	8PQ2020-8BA22
3VA20	100 A	600 mm	200 mm	8PQ6000-8BA08	8PQ2020-6BA44
		800 mm	200 mm	8PQ6000-8BA10	8PQ2020-8BA23
3VA21	160 A	600 mm	200 mm	8PQ6000-8BA08	8PQ2020-6BA44
		800 mm	200 mm	8PQ6000-8BA10	8PQ2020-8BA23
3VA22	250 A	600 mm	200 mm	8PQ6000-8BA08	8PQ2020-6BA44
		800 mm	200 mm	8PQ6000-8BA10	8PQ2020-8BA23
3VA23	400 A	600 mm	250 mm	8PQ6000-8BA25	8PQ2025-6BA24
		800 mm	250 mm	8PQ6000-8BA27	8PQ2025-8BA15
3VA24	630 A	600 mm	250 mm	8PQ6000-8BA25	8PQ2025-6BA24
		800 mm	250 mm	8PQ6000-8BA27	8PQ2025-8BA15





3VA molded case circuit breakers, internal separation – front connection



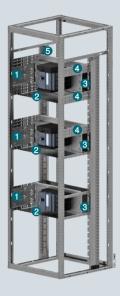
3-pole, width 600 mm



Туре	l _n	Height		Operati	ng mecha	nısm		
				Direct	Rotary	Motorized		
3VA10	100 A	150 mm	Fixed-mounted	•		-	8PQ5000-2BA28 + 8PQ5000-0BA05	8PQ5000-2BA61
3VA11	160 A	150 mm	Fixed-mounted				8PQ5000-2BA28 + 8PQ5000-0BA05	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA28 + 8PQ5000-0BA05	8PQ5000-2BA61
3VA12	250 A	150 mm	Fixed-mounted				8PQ6000-8BA12	8PQ5000-2BA61
				-	-		8PQ6000-8BA13	8PQ5000-2BA61
			Plug-in			-	8PQ6000-8BA13	8PQ5000-2BA61
				-	-		8PQ6000-8BA12	8PQ5000-2BA61
		250 mm	Withdrawable		-		8PQ6000-8BA12	8PQ5000-2BA61
3VA20	100 A	200 mm	Fixed-mounted	•		•	8PQ5000-2BA30 + 8PQ5000-0BA05	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA30 + 8PQ5000-0BA05	8PQ5000-2BA61
		250 mm	Withdrawable		-	•	8PQ5000-2BA30	8PQ5000-2BA61
3VA21	100 A	200 mm	Fixed-mounted			•	8PQ5000-2BA30 + 8PQ5000-0BA05	8PQ5000-2BA61
			Plug-in			•	8PQ5000-2BA30 + 8PQ5000-0BA05	8PQ5000-2BA61
		250 mm	Withdrawable		-		8PQ5000-2BA30 + 8PQ5000-0BA05	8PQ5000-2BA61
3VA22	250 A	200 mm	Fixed-mounted			-	8PQ6000-8BA16	8PQ5000-2BA61
				-	-		8PQ6000-8BA17	8PQ5000-2BA61
			Plug-in			-	8PQ6000-8BA17	8PQ5000-2BA61
				-	-	•	8PQ6000-8BA16	8PQ5000-2BA61
		250 mm	Withdrawable		_		8PQ6000-8BA16	8PQ5000-2BA61
3VA23	400 A	200 mm	Fixed-mounted			-	8PQ6000-8BA20	8PQ5000-2BA61
				-	-		8PQ6000-8BA18	8PQ5000-2BA61
			Plug-in			•	8PQ6000-8BA18	8PQ5000-2BA61
		300 mm	Withdrawable		-	_	8PQ6000-8BA20	8PQ5000-2BA61
3VA24	630 A	200 mm	Fixed-mounted			•	8PQ6000-8BA20	8PQ5000-2BA61
				-	-	-	8PQ6000-8BA18	8PQ5000-2BA61
			Plug-in				8PQ6000-8BA18	8PQ5000-2BA61
		300 mm	Withdrawable		_	_	8PQ6000-8BA20	8PQ5000-2BA61

⊗ Separation, rear	4 Increase in module height	Horizontal separation with increase in module height			
8PQ5000-4BA40	-	-			
8PQ5000-4BA40	-	-			
8PQ5000-4BA40	-	-			
8PQ5000-4BA40	-	-			
8PQ5000-4BA40	-	-			
8PQ5000-4BA40	-	-			
8PQ5000-4BA40	-	-			
8PQ5000-4BA40	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	8PQ5000-4BA62	8PQ5000-4BA70			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	8PQ5000-4BA62	8PQ5000-4BA70			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	8PQ5000-4BA62	8PQ5000-4BA70			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	2× 8PQ5000-4BA62	2× 8PQ5000-4BA70			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	-	-			
8PQ5000-4BA41	2× 8PQ5000-4BA62	2× 8PQ5000-4BA70			

3VA molded case circuit breakers, internal separation – front connection



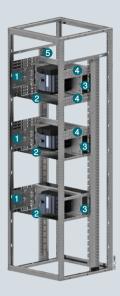
3-pole, width 800 mm



Type	l _n	Height		Operati	ng mecha	nism			
				Direct	Rotary	Motorized			
3VA10	100 A	150 mm	Fixed-mounted			-	8PQ5000-2BA28 +	8PQ5000-0BA05	8PQ5000-2BA62
3VA11	160 A	150 mm	Fixed-mounted				8PQ5000-2BA28 +	8PQ5000-0BA05	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA28 +	8PQ5000-0BA05	8PQ5000-2BA62
3VA12	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
			Plug-in	•			8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
		250 mm	Withdrawable		-		8PQ6000-8BA14		8PQ5000-2BA62
3VA20	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
		250 mm	Withdrawable		-		8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
3VA21	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
		250 mm	Withdrawable		_		8PQ5000-2BA30 +	8PQ5000-0BA05	8PQ5000-2BA62
3VA22	250 A	200 mm	Fixed-mounted			-	8PQ6000-8BA16		8PQ5000-2BA62
				-	-		8PQ6000-8BA17		8PQ5000-2BA62
			Plug-in				8PQ6000-8BA17		8PQ5000-2BA62
		250 mm	Withdrawable	•	-		8PQ6000-8BA16		8PQ5000-2BA62
3VA23	400 A	250 mm	Fixed-mounted	•		-	8PQ6000-8BA22		8PQ5000-2BA62
				-	-		8PQ6000-8BA21		8PQ5000-2BA62
			Plug-in				8PQ6000-8BA21		8PQ5000-2BA62
3VA23	400 A	300 mm	Withdrawable		_	_	8PQ6000-8BA22		8PQ5000-2BA62
3VA24	630 A	250 mm	Fixed-mounted	•		-	8PQ6000-8BA22		8PQ5000-2BA62
				-	-	•	8PQ6000-8BA21		8PQ5000-2BA62
			Plug-in				8PQ6000-8BA21		8PQ5000-2BA62
		300 mm	Withdrawable	•	-	-	8PQ6000-8BA22		8PQ5000-2BA62

⊗ Separation, rear	4 Increase in module height
-	-
_	-
-	-
8PQ5000-4BA48	-
8PQ5000-4BA48	-
8PQ5000-4BA48	8PQ5000-4BA61 + 8PQ5000-4BA71
8PQ5000-4BA48	-
8PQ5000-4BA48	-
8PQ5000-4BA48	8PQ5000-4BA63 + 8PQ5000-4BA72
8PQ5000-4BA48	-
8PQ5000-4BA48	-
8PQ5000-4BA48	8PQ5000-4BA63 + 8PQ5000-4BA72
8PQ5000-4BA48	-
8PQ5000-4BA48	-
8PQ5000-4BA48	-
8PQ5000-4BA48	8PQ5000-4BA63 + 8PQ5000-4BA72
8PQ5000-4BA50	-
8PQ5000-4BA50	-
8PQ5000-4BA50	-
8PQ5000-4BA50	8PQ5000-4BA63 + 8PQ5000-4BA72
8PQ5000-4BA50	-
8PQ5000-4BA50	-
8PQ5000-4BA50	-
8PQ5000-4BA50	8PQ5000-4BA63 + 8PQ5000-4BA72

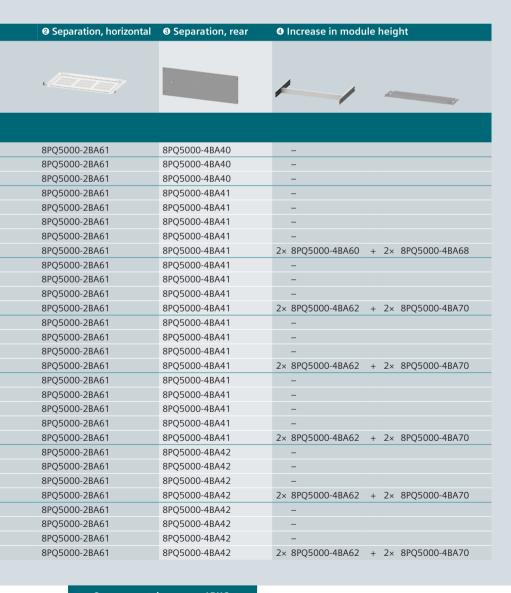
3VA molded case circuit breakers, internal separation – front connection



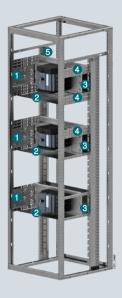
4-pole, width 600 mm



Type	l _n	Height		Operating mechanism					Terminals		4th pole
				Direct	Rotary	Motorized					
3VA10	100 A	150 mm	Fixed-mounted			_	8PQ5000-2BA28	+	8PQ5000-0BA05		
3VA11	160 A	150 mm	Fixed-mounted				8PQ5000-2BA28	+	8PQ5000-0BA05		
			Plug-in				8PQ5000-2BA28	+	8PQ5000-0BA05		
3VA12	250 A	200 mm	Fixed-mounted			-	8PQ6000-8BA14				
				-	-		8PQ6000-8BA15				
			Plug-in			-	8PQ6000-8BA15				
				-	-		8PQ6000-8BA14				
		300 mm	Withdrawable		_		8PQ6000-8BA14				
3VA20	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30	+	8PQ5000-0BA05		
			Plug-in			_	8PQ5000-2BA30	+	8PQ5000-0BA05		
				-	-	•	8PQ5000-2BA30	+	8PQ5000-0BA05		
		300 mm	Withdrawable		-		8PQ5000-2BA30	+	8PQ5000-0BA05		
3VA21	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30	+	8PQ5000-0BA05		
			Plug-in			_	8PQ5000-2BA30	+	8PQ5000-0BA05		
				-	-		8PQ5000-2BA30	+	8PQ5000-0BA05		
		300 mm	Withdrawable		-		8PQ5000-2BA30	+	8PQ5000-0BA05		
3VA22	250 A	200 mm	Fixed-mounted			_	8PQ6000-8BA16			+	8PQ5000-4BA58
				-	-		8PQ6000-8BA17			+	8PQ5000-4BA58
			Plug-in			_	8PQ6000-8BA17			+	8PQ5000-4BA58
				-	-		8PQ6000-8BA17			+	8PQ5000-4BA58
		200 mm	Withdrawable		-	•	8PQ6000-8BA17			+	8PQ5000-4BA58
3VA23	400 A	250 mm	Fixed-mounted			_	8PQ6000-8BA22				
				-	-		8PQ6000-8BA21				
			Plug-in				8PQ6000-8BA21				
		350 mm	Withdrawable		-	_	8PQ6000-8BA22				
3VA24	630 A	250 mm	Fixed-mounted	•		_	8PQ6000-8BA22				
				-	-		8PQ6000-8BA21				
			Plug-in				8PQ6000-8BA21				
		350 mm	Withdrawable		_	_	8PQ6000-8BA22				



3VA molded case circuit breakers, internal separation – front connection



4-pole, width 800 mm



Type	l _n	Height		Operati	ng mecha	nism			Terminals		4th pole
				Direct	Rotary	Motorized					
3VA10	100 A	150 mm	Fixed-mounted			_	8PQ5000-2BA28	+	8PQ5000-0BA05		
3VA11	160 A	150 mm	Fixed-mounted				8PQ5000-2BA28	+	8PQ5000-0BA05		
			Plug-in				8PQ5000-2BA28	+	8PQ5000-0BA05		
3VA12	250 A	200 mm	Fixed-mounted			-	8PQ6000-8BA14				
				_	-		8PQ6000-8BA15				
			Plug-in			_	8PQ6000-8BA15				
				-	-		8PQ6000-8BA14				
		300 mm	Withdrawable		_	•	8PQ6000-8BA14				
3VA20	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30	+	8PQ5000-0BA05		
			Plug-in				8PQ5000-2BA30	+	8PQ5000-0BA05		
		300 mm	Withdrawable		-		8PQ5000-2BA30	+	8PQ5000-0BA05		
3VA21	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30	+	8PQ5000-0BA05		
			Plug-in				8PQ5000-2BA30	+	8PQ5000-0BA05		
		250 mm	Withdrawable		-		8PQ5000-2BA30	+	8PQ5000-0BA05		
3VA22	250 A	200 mm	Fixed-mounted			_	8PQ6000-8BA16			+	8PQ5000-4BA58
				_	-		8PQ6000-8BA17			+	8PQ5000-4BA58
			Plug-in				8PQ6000-8BA17			+	8PQ5000-4BA58
				_	-		8PQ6000-8BA16			+	8PQ5000-4BA58
		250 mm	Withdrawable		-		8PQ6000-8BA16			+	8PQ5000-4BA58
3VA23	400 A	250 mm	Fixed-mounted			-	8PQ6000-8BA22				
				-	-		8PQ6000-8BA21				
			Plug-in				8PQ6000-8BA21				
		350 mm	Withdrawable		-	-	8PQ6000-8BA22				
3VA24	630 A	250 mm	Fixed-mounted			-	8PQ6000-8BA22				
				-	-		8PQ6000-8BA21				
			Plug-in	•			8PQ6000-8BA21				
		350 mm	Withdrawable		-	-	8PQ6000-8BA22				

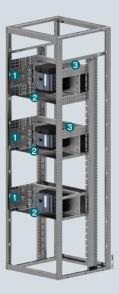


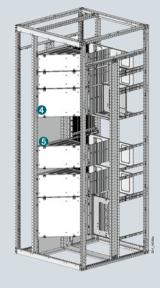
3VA molded case circuit breakers, internal separation – front connection

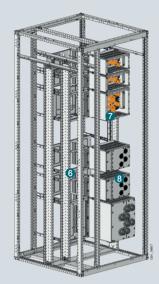
Accessories

9 Plug-in rails			
1	Equipment height	Busbar system	Article No.
	1600 mm	Тор	8PQ3000-0BA82
	1800 mm	Rear or without	8PQ3000-0BA83
Protective bellows			
	Version	Scope of supply	Article No.
	For connecting terminal	4 units	8PQ9400-0BA71

3VA molded case circuit breakers, internal separation – rear connection







3-pole, width 600 mm

1 Side	@ Horizontal

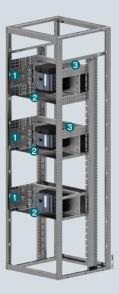
Type	'n	Height		Operating mechanism		1115111		
				Direct	Rotary	Motorized		
3VA10	100 A	150 mm	Fixed-mounted			-	8PQ5000-2BA28	8PQ5000-2BA61
3VA11	160 A	150 mm	Fixed-mounted			-	8PQ5000-2BA28	8PQ5000-2BA61
			Plug-in		_	-	8PQ5000-2BA28	8PQ5000-2BA61
3VA12	250 A	150 mm	Fixed-mounted				8PQ5000-2BA28	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA28	8PQ5000-2BA61
		250 mm	Withdrawable		_		8PQ5000-2BA28	8PQ5000-2BA61
3VA20	100 A	200 mm	Fixed-mounted	•		•	8PQ5000-2BA30	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA61
		250 mm	Withdrawable		_		8PQ5000-2BA30	8PQ5000-2BA61
3VA21	160 A	200 mm	Fixed-mounted				8PQ5000-2BA30	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA61
		250 mm	Withdrawable		_		8PQ5000-2BA30	8PQ5000-2BA61
3VA22	250 A	200 mm	Fixed-mounted				8PQ5000-2BA30	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA61
		250 mm	Withdrawable		_		8PQ5000-2BA30	8PQ5000-2BA61
3VA23	400 A	200 mm	Fixed-mounted			•	8PQ5000-2BA31	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA31	8PQ5000-2BA61
		300 mm	Withdrawable		_	-	8PQ5000-2BA31	8PQ5000-2BA61
3VA24	630 A	200 mm	Fixed-mounted		•	•	8PQ5000-2BA31	8PQ5000-2BA61
			Plug-in				8PQ5000-2BA31	8PQ5000-2BA61
		300 mm	Withdrawable		-	-	8PQ5000-2BA31	8PQ5000-2BA61

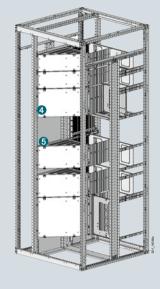
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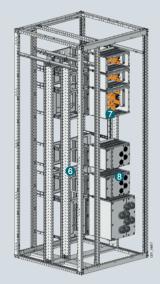
⊗ Increase in module height	Vertical busbar connection	⊙ Segment covers	⊙ Support plates	© Connection compartments	Cover plates
		-2515]			
-	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA15	8PQ5000-3BA71
-	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA15	8PQ5000-3BA71
2× 8PQ5000-4BA60 + 2× 8PQ5000-4BA68	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA15	8PQ5000-3BA71
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
8PQ5000-4BA62 + 8PQ5000-4BA70	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
8PQ5000-4BA62 + 8PQ5000-4BA70	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-8BA30	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-8BA30	8PQ5000-3BA72
8PQ5000-4BA62 + 8PQ5000-4BA70	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-8BA30	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA18	8PQ5000-3BA73
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA18	8PQ5000-3BA73
2× 8PQ5000-4BA62 + 2× 8PQ5000-4BA70	8PQ5000-3BA55	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA18	8PQ5000-3BA73
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA18	8PQ5000-3BA73
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA18	8PQ5000-3BA73
2× 8PQ5000-4BA62 + 2× 8PQ5000-4BA70	8PQ5000-3BA55	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA18	8PQ5000-3BA73

System overview, page 15/12 Siemens LV 10 · 10/2019

3VA molded case circuit breakers, internal separation – rear connection







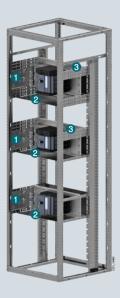
4-pole, width 600 mm

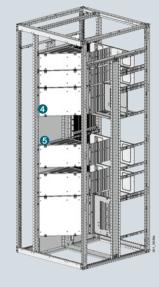
• Side	② Horizontal

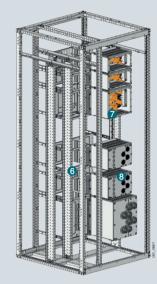
Туре	I _n	Height		Operati	Operating mechanism				
				Direct	Rotary	Motorized			
3VA10	100 A	150 mm	Fixed-mounted			-	8PQ5000-2BA28	8PQ5000-2BA61	
3VA11	160 A	150 mm	Fixed-mounted			•	8PQ5000-2BA28	8PQ5000-2BA61	
			Plug-in			_	8PQ5000-2BA28	8PQ5000-2BA61	
3VA12	250 A	200 mm	Fixed-mounted	•			8PQ5000-2BA30	8PQ5000-2BA61	
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA61	
		300 mm	Withdrawable		_		8PQ5000-2BA30	8PQ5000-2BA61	
3VA20	100 A	200 mm	Fixed-mounted	•	•	•	8PQ5000-2BA30	8PQ5000-2BA61	
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA61	
		300 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA61	
3VA21	160 A	200 mm	Fixed-mounted				8PQ5000-2BA30	8PQ5000-2BA61	
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA61	
		300 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA61	
3VA22	250 A	200 mm	Fixed-mounted			•	8PQ5000-2BA30	8PQ5000-2BA61	
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA61	
		300 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA61	
3VA23	400 A	250 mm	Fixed-mounted	•	•	•	8PQ5000-2BA33	8PQ5000-2BA61	
			Plug-in				8PQ5000-2BA33	8PQ5000-2BA61	
		300 mm	Withdrawable		-	-	8PQ5000-2BA33	8PQ5000-2BA61	
3VA24	630 A	250 mm	Fixed-mounted	•	•	•	8PQ5000-2BA33	8PQ5000-2BA61	
			Plug-in				8PQ5000-2BA33	8PQ5000-2BA61	
		350 mm	Withdrawable		-	-	8PQ5000-2BA33	8PQ5000-2BA61	

⊗ Increase in module height	Vertical busbar connection	6 Segment covers	© Support plates	⊘ Connection compartments	Cover plates
-	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA13	8PQ5000-4BA80
_	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA52	8PQ5000-3BA63	8PQ5000-4BA73	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA17	8PQ5000-3BA72
2× 8PQ5000-4BA60 + 2× 8PQ5000-4BA68	8PQ5000-3BA55	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
2× 8PQ5000-4BA62 + 2× 8PQ5000-4BA70	8PQ5000-3BA55	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
2× 8PQ5000-4BA62 + 2× 8PQ5000-4BA70	8PQ5000-3BA55	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA53	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA17	8PQ5000-3BA72
2× 8PQ5000-4BA62 + 2× 8PQ5000-4BA70	8PQ5000-3BA55	8PQ5000-3BA63	8PQ5000-4BA74	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA75	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA75	8PQ6000-5BA20	8PQ5000-3BA74
2× 8PQ5000-4BA62 + 2× 8PQ5000-4BA70	8PQ5000-3BA56	8PQ5000-3BA63	8PQ5000-4BA75	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA75	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA54	8PQ5000-3BA63	8PQ5000-4BA75	8PQ6000-5BA20	8PQ5000-3BA74
2× 8PQ5000-4BA62 + 2× 8PQ5000-4BA70	8PQ5000-3BA56	8PQ5000-3BA63	8PQ5000-4BA75	8PQ6000-5BA20	8PQ5000-3BA74

3VA molded case circuit breakers, internal separation – rear connection







3-pole, width 800 mm

● Side	9 Horizontal
4	

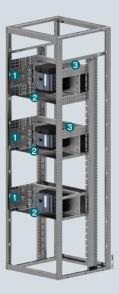
Туре	n	Height		Operati	Operating mechanism				
				Direct	Rotary	Motorized			
3VA10	100 A	150 mm	Fixed-mounted		-	_	8PQ5000-2BA28	8PQ5000-2BA62	
3VA11	160 A	150 mm	Fixed-mounted		-	_	8PQ5000-2BA28	8PQ5000-2BA62	
			Plug-in	•	_	_	8PQ5000-2BA28	8PQ5000-2BA62	
3VA12	250 A	200 mm	Fixed-mounted	•			8PQ5000-2BA30	8PQ5000-2BA62	
			Plug-in	•	•		8PQ5000-2BA30	8PQ5000-2BA62	
		250 mm	Withdrawable		_	_	8PQ5000-2BA30	8PQ5000-2BA62	
3VA20	100 A	200 mm	Fixed-mounted	•	•		8PQ5000-2BA30	8PQ5000-2BA62	
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA62	
		250 mm	Withdrawable	•	-		8PQ5000-2BA30	8PQ5000-2BA62	
3VA21	160 A	200 mm	Fixed-mounted	•			8PQ5000-2BA30	8PQ5000-2BA62	
			Plug-in	•		•	8PQ5000-2BA30	8PQ5000-2BA62	
		250 mm	Withdrawable		_	•	8PQ5000-2BA30	8PQ5000-2BA62	
3VA22	250 A	200 mm	Fixed-mounted	•			8PQ5000-2BA30	8PQ5000-2BA62	
			Plug-in	•	•		8PQ5000-2BA30	8PQ5000-2BA62	
		250 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA62	
3VA23	400 A	250 mm	Fixed-mounted	•	•		8PQ5000-2BA33	8PQ5000-2BA62	Ī
			Plug-in				8PQ5000-2BA33	8PQ5000-2BA62	
		300 mm	Withdrawable		-	-	8PQ5000-2BA33	8PQ5000-2BA62	
3VA24	630 A	250 mm	Fixed-mounted	•	•	•	8PQ5000-2BA33	8PQ5000-2BA62	
			Plug-in				8PQ5000-2BA33	8PQ5000-2BA62	
		300 mm	Withdrawable		-	-	8PQ5000-2BA33	8PQ5000-2BA62	

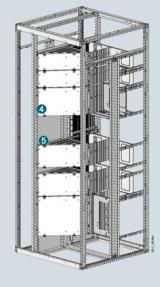
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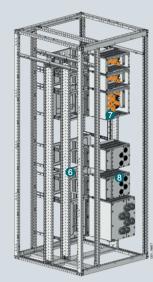
Increase in module height	Vertical busbar connection	⊙ Segment covers	6 Support plates	Connection compartments	Cover plates
-	8PQ5000-3BA57	8PQ5000-3BA64	8PQ5000-4BA76	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA57	8PQ5000-3BA64	8PQ5000-4BA76	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA57	8PQ5000-3BA64	8PQ5000-4BA76	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
8PQ5000-4BA61 + 8PQ5000-4BA71	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
8PQ5000-4BA63 + 8PQ5000-4BA72	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
8PQ5000-4BA63 + 8PQ5000-4BA72	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-8BA30	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-8BA30	8PQ5000-3BA72
8PQ5000-4BA63 + 8PQ5000-4BA72	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-8BA30	8PQ5000-3BA72
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
8PQ5000-4BA63 + 8PQ5000-4BA72	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
8PQ5000-4BA63 + 8PQ5000-4BA72	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74

3VA molded case circuit breakers, internal separation – rear connection

Operating mechanism







4-pole, width 800 mm

Height

Type

● Side	Ø Horizontal
1	

					_			
				Direct	Rotary	Motorized		
3VA10	100 A	150 mm	Fixed-mounted			-	8PQ5000-2BA28	8PQ5000-2BA62
3VA11	160 A	150 mm	Fixed-mounted	•	•	•	8PQ5000-2BA28	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA28	8PQ5000-2BA62
3VA12	250 A	200 mm	Fixed-mounted	•	•	•	8PQ5000-2BA30	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA62
		300 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA62
3VA20	100 A	200 mm	Fixed-mounted				8PQ5000-2BA30	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA62
		300 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA62
3VA21	160 A	200 mm	Fixed-mounted	•	•	•	8PQ5000-2BA30	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA62
		300 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA62
3VA22	250 A	200 mm	Fixed-mounted	•		•	8PQ5000-2BA30	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA30	8PQ5000-2BA62
		300 mm	Withdrawable		-		8PQ5000-2BA30	8PQ5000-2BA62
3VA23	400 A	250 mm	Fixed-mounted	•		•	8PQ5000-2BA33	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA33	8PQ5000-2BA62
		350 mm	Withdrawable		-	-	8PQ5000-2BA33	8PQ5000-2BA62
3VA24	630 A	250 mm	Fixed-mounted	•	•	•	8PQ5000-2BA33	8PQ5000-2BA62
			Plug-in				8PQ5000-2BA33	8PQ5000-2BA62
		350 mm	Withdrawable		-	-	8PQ5000-2BA33	8PQ5000-2BA62

8 Increase in module height	Vertical busbar connection	⊙ Segment covers	⊙ Support plates	Connection compartments	Cover plates
-	8PQ5000-3BA57	8PQ5000-3BA64	8PQ5000-4BA76	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA57	8PQ5000-3BA64	8PQ5000-4BA76	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA57	8PQ5000-3BA64	8PQ5000-4BA76	8PQ6000-5BA13	8PQ5000-4BA80
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
2× 8PQ5000-4BA61 + 2× 8PQ5000-4BA71	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
2× 8PQ5000-4BA63 + 2× 8PQ5000-4BA72	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
_	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
2× 8PQ5000-4BA63 + 2× 8PQ5000-4BA72	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA14	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
2× 8PQ5000-4BA63 + 2× 8PQ5000-4BA72	8PQ5000-3BA58	8PQ5000-3BA64	8PQ5000-4BA77	8PQ6000-5BA17	8PQ5000-3BA72
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
2× 8PQ5000-4BA63 + 2× 8PQ5000-4BA72	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
-	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74
2× 8PQ5000-4BA63 + 2× 8PQ5000-4BA72	8PQ5000-3BA60	8PQ5000-3BA64	8PQ5000-4BA78	8PQ6000-5BA20	8PQ5000-3BA74

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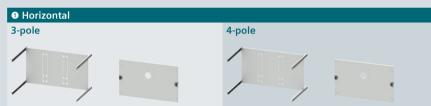
3VA molded case circuit breakers, internal separation – rear connection

Accessories

Plug-in rails			
1	Equipment height	Busbar system	Article No.
	1600 mm	Тор	8PQ3000-0BA82
	1800 mm	Rear or without	8PQ3000-0BA83

3K switch disconnectors



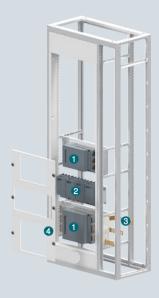


Switching devices	Width	Height	Device holders	Covers	Device holders	Covers
3KL50/3KL52	600 mm	250 mm	-	-	-	-
		300 mm	8PQ6000-2BA65	8PQ2030-6BA06	8PQ6000-2BA65	8PQ2030-6BA06
3KL55/3KL57	600 mm	350 mm	8PQ6000-2BA71	8PQ2035-6BA08	8PQ6000-2BA71	8PQ2035-6BA08
3KL61	600 mm	450 mm	-	-	-	-
		550 mm	8PQ6000-2BA50	8PQ2055-6BA02	8PQ6000-2BA50	8PQ2055-6BA02
3KL711/3KA711	600 mm	200 mm	8PQ6000-2BA52	8PQ2020-6BA10	8PQ6000-2BA52	8PQ2020-6BA10
	800 mm	200 mm	_	-	-	-
3KL712/3KA712	600 mm	250 mm	8PQ6000-2BA55	8PQ2025-6BA03	8PQ6000-2BA55	8PQ2025-6BA03
	800 mm	250 mm	-	-	-	-
3KL713/3KA713	600 mm	300 mm	8PQ6000-2BA58	8PQ2030-6BA04	8PQ6000-2BA58	8PQ2030-6BA04
	800 mm	300 mm	_	-	-	-
3KL714/3KA714	600 mm	350 mm	8PQ6000-2BA62	8PQ2035-6BA06	8PQ6000-2BA62	8PQ2035-6BA06
	800 mm	350 mm	-	-	-	-
3KL715/3KA715 ¹⁾	600 mm	450 mm	8PQ6000-2BA67	8PQ2045-6BA02	8PQ6000-2BA67	8PQ2045-6BA02
	800 mm	450 mm	-	-	-	-

¹⁾ Due to the size of its handle, the 3KA715 disconnector can be used only up to 1250 A/35 kA when installed horizontally. Due to the size of its handle, the 1250 A/50 kA 3KA715 disconnector requires an additional 200 mm cover.



3NP1 fuse switch disconnectors, 3-pole



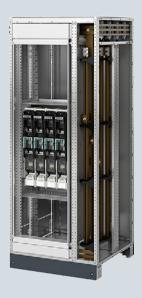


Switching device	Width	No. of switching devices	Device holders	Covers	
3NP1123	600 mm	4	8PQ6000-3BA78	8PQ2025-6BA18	
	800 mm	6	8PQ6000-3BA82	8PQ2025-8BA10	
3NP1133	600 mm	4	8PQ6000-3BA78	8PQ2030-6BA23	
	800 mm	5	8PQ6000-3BA82	8PQ2030-8BA11	

Vertical

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3NJ4 fuse switch disconnectors





Covers

Busbar holders

Size	Width	No. of switching devices			
Sizes 1, 2, 3	600 mm	4× 100 mm	8PQ6000-2BA48	2 × 3NJ5974-0AB	8PQ2000-6BA06
	800 mm	6× 100 mm	8PQ6000-2BA48	2 × 3NJ5974-0AB	8PQ2000-8BA06

Device holders

Accessories

Blanking covers			
1	Size	Width	Article No.
	Size 00	50 mm	3NJ4912-2AA00
	Sizes 1, 2, 3	100 mm	3NJ4912-2BA00

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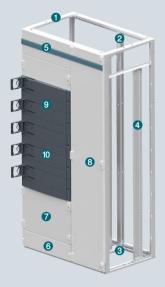


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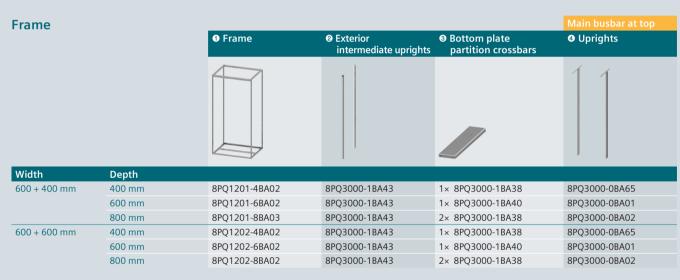
Section expansion

3NJ6 switch disconnectors with fuses

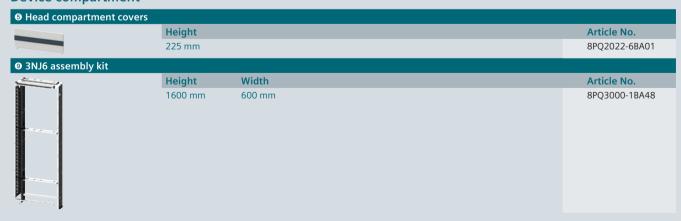


Technical specifications, distribution busbar

	Rated operational current I _n , ventilated							
Cross-section	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 ℃	
60 × 10 mm	1680 A	1640 A	1600 A	1560 A	1520 A	1480 A	1430 A	
80 × 10 mm	2260 A	2210 A	2155 A	2100 A	2045 A	1985 A	1925 A	



Device compartment



Busbar cover				
	Height			Article No.
	200 mm			8× 3NJ6916-4EA00
Device compartmer	its			
	Height			Article No.
	200 mm			8PQ3000-1BA50
	400 mm			8PQ3000-1BA51
Blanking covers				
	Height			Article No.
# NT	50 mm			3NJ6900-4CB00
orm 2b separation				
THE REAL PROPERTY.	Position of main busbar	Width	Depth	Article No.
	Top, front	600 mm	400 mm	8PQ3000-1BA44
			600 mm	8PQ3000-1BA45
			800 mm	8PQ3000-1BA46
	Top, both sides	600 mm	800 mm	8PQ3000-1BA47
3 Base compartment	covers			
	Height			Article No.
	150 mm			8PQ2000-6BA07

Cable compartment

Cable Compartment	•					
Form 2b separation						
Harris Ha	Position of main busbar	Width	Depth	Article No.		
	Top, front	400 mm	400 mm	8PQ3000-0BA67		
			600 mm	8PQ3000-0BA52		
			800 mm	8PQ3000-0BA55		
		600 mm	400 mm	8PQ3000-0BA68		
			600 mm	8PQ3000-0BA53		
			800 mm	8PQ3000-0BA56		
	Top, both sides	400 mm	800 mm	8PQ3000-0BA58		
		600 mm	800 mm	8PQ3000-0BA60		
Section doors						
	Lock type	Hinge position	Width	Article No.		
	Double-bit	Left	400 mm	8PQ2197-4BA08		
			600 mm	8PQ2197-6BA06		
		Right	400 mm	8PQ2197-4BA11		
			600 mm	8PQ2197-6BA13		
0 .	Profile semicylinders	Left	400 mm	8PQ2197-4BA06		
			600 mm	8PQ2197-6BA04		
		Right	400 mm	8PQ2197-4BA07		
			600 mm	8PQ2197-6BA05		
1						
Terminal covers, form 4b						
	Version			Article No.		
	Size 00	Size 00				
	Size 1			3NJ6933-1DA01		
	Size 2			3NJ6943-1DA00		
	4th pole for all sizes			3NJ6904-1DA00		

Modular installation devices

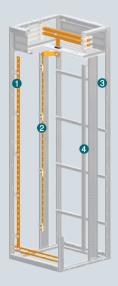




Accessories

Cable duct fastening							
		Version	Article No.				
		Mounting brackets	8PQ6000-0BA16				
Blanking	strips						
		Versions	Article No.				
		For 12 MW	8GK9910-0KK00				
		Length 1 m, to cut to length	8GK9910-0KK01				

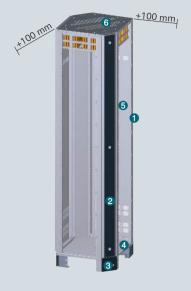
Cable section





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Corner sections





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Main busbar at top



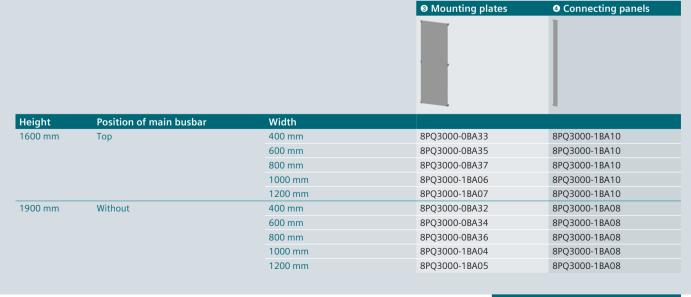
System overview, page 15/12

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Mounting plates

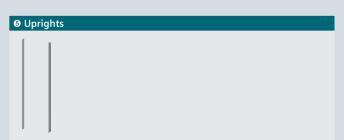






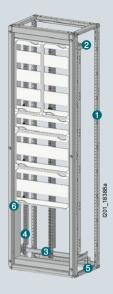


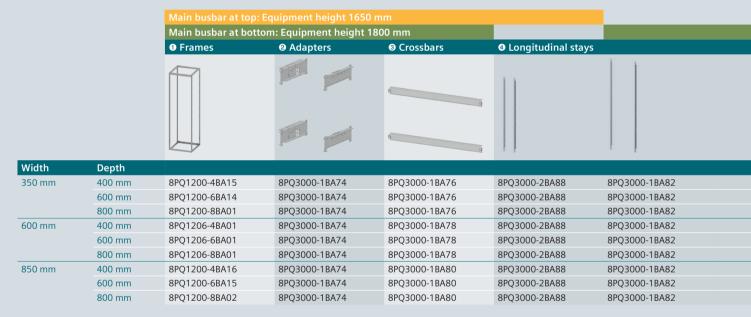
Height	Width				
	400 mm	600 mm	800 mm		
150 mm	8PQ3000-2BA60	8PQ3000-2BA62	8PQ3000-2BA64		
200 mm	8PQ3000-2BA17	8PQ3000-1BA56	8PQ3000-1BA58		
300 mm	8PQ3000-2BA66	8PQ3000-2BA51	8PQ3000-2BA53		
400 mm	8PQ3000-2BA18	8PQ3000-1BA61	8PQ3000-1BA63		
550 mm	-	8PQ3000-3BA07	8PQ3000-3BA08		
600 mm	8PQ3000-2BA21	8PQ3000-1BA65	8PQ3000-1BA67		
800 mm	8PQ3000-2BA23	8PQ3000-1BA26	8PQ3000-1BA28		



Height	Position of main busbar	Depth	
1600 mm	Тор	600 mm	8PQ3000-0BA01
		800 mm	8PQ3000-0BA02
1900 mm	Without	600 mm	8PQ3000-0BA03
		800 mm	8PQ3000-0BA03

ALPHA 8GK DIN sections, frame







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Section expansion

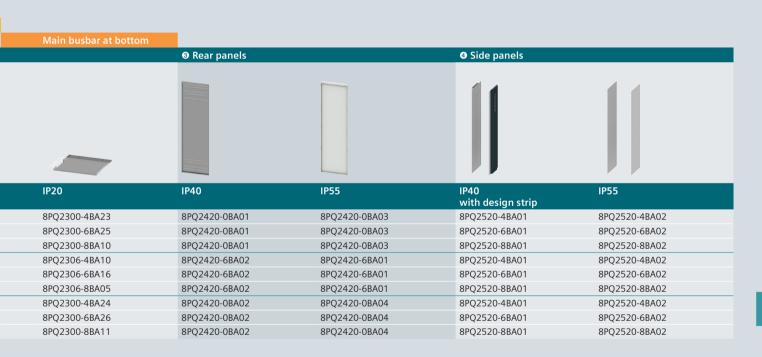
ALPHA 8GK DIN sections, enclosure







Width	Depth	Height 100 mm	200 mm	Height 100 mm	IP40 cable entry	IP55 closed	
350 mm	400 mm	8PQ1010-0BA01	8PQ1020-0BA01	8PQ1010-4BA01	8PQ2300-4BA18	8PQ2300-4BA16	
	600 mm	8PQ1010-0BA01	8PQ1020-0BA01	8PQ1010-6BA01	8PQ2300-6BA22	8PQ2300-6BA20	
	800 mm	8PQ1010-0BA01	8PQ1020-0BA01	8PQ1010-8BA01	2× 8PQ2300-4BA18	2× 8PQ2300-4BA16	
600 mm	400 mm	8PQ1016-0BA01	8PQ1026-0BA01	8PQ1010-4BA01	8PQ2306-4BA06	8PQ2306-4BA05	
	600 mm	8PQ1016-0BA01	8PQ1026-0BA01	8PQ1010-6BA01	8PQ2306-6BA06	8PQ2306-6BA05	
	800 mm	8PQ1016-0BA01	8PQ1026-0BA01	8PQ1010-8BA01	2× 8PQ2306-4BA06	2× 8PQ2306-4BA05	
850 mm	400 mm	8PQ1010-0BA02	8PQ1020-0BA02	8PQ1010-4BA01	8PQ2300-4BA20	8PQ2300-4BA17	
	600 mm	8PQ1010-0BA02	8PQ1020-0BA02	8PQ1010-6BA01	8PQ2300-6BA23	8PQ2300-6BA21	
	800 mm	8PQ1010-0BA02	8PQ1020-0BA02	8PQ1010-8BA01	2× 8PQ2300-4BA20	2× 8PQ2300-4BA17	



ALPHA 8GK DIN sections, enclosure





ALPHA 8GK DIN sections, doors





Hinge position	Width	IP40	IP55	IP55 glass doors	
With double-bit					
Left	350 mm	8PQ2197-0BA03	8PQ2197-0BA06	-	
	600 mm	8PQ2197-6BA06	8PQ2197-6BA03	8PQ2197-6BA10	
	850 mm	8PQ2197-0BA04	8PQ2197-0BA07	8PQ2197-0BA01	
Right	350 mm	8PQ2197-0BA16	8PQ2197-0BA18	-	
	600 mm	8PQ2197-6BA13	8PQ2197-6BA12	8PQ2197-6BA14	
	850 mm	8PQ2197-0BA17	8PQ2197-0BA20	8PQ2197-0BA21	
For profile semio	For profile semicylinders				
Left	350 mm	8PQ2197-0BA34	8PQ2197-0BA31	-	
	600 mm	8PQ2197-6BA04	8PQ2197-6BA01	8PQ2197-6BA07	
	850 mm	8PQ2197-0BA35	8PQ2197-0BA32	8PQ2197-0BA33	
Right	350 mm	8PQ2197-0BA40	8PQ2197-0BA36	-	
	600 mm	8PQ2197-6BA05	8PQ2197-6BA02	8PQ2197-6BA08	
	850 mm	8PQ2197-0BA41	8PQ2197-0BA37	8PQ2197-0BA38	

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ALPHA 8GK DIN sections, doors

Accessories

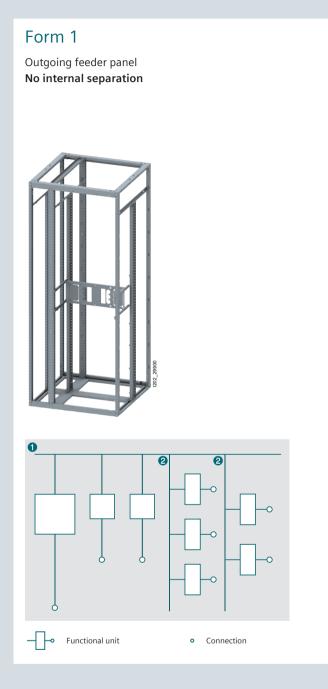
Flat cylinders/two-way inte	erlocking mechanism		
	Version		Article No.
	Rotary handles with flat cylinder		8PQ9400-0BA07
1	With key		· ·
	Identical key type		
<i>*</i>			
1	Rotary handles with two-way interlocking mechanism		8PQ9400-0BA08
	Counting have		0000400 00427
	Coupling bars		8PQ9400-0BA27
	Locking rods		8PQ9400-0BA37
	Locking rous		01 Q3400 0B/(37
	Bar guides		8PQ9400-0BA36
T 'this			
(1 m) 3 3			
3			
ofile semicylinders			
	Version		Article No.
À	Rotary handles for profile semicylinders		8PQ9400-0BA41
L L			
	Coupling bars		8PQ9400-0BA28
	Locking rods		8PQ9400-0BA38
	Locking road		01 Q3 100 02/130
			
	Bar guides		8PQ9400-0BA36
3			
(8)	Profile semicylinders		8PQ9400-0BA26
160	Acc. to DIN 18252/18254, 8 × 45° adjustable,		
1	with identical keys (key number 333), including key		
oor hinges			
	Version	Scope of supply	Article No.
10	Suitable for modular or section doors	2 units	8PQ9400-0BA55
0	Salable for modular or section doors	Z unit	31 43 100 00/133
0 1			

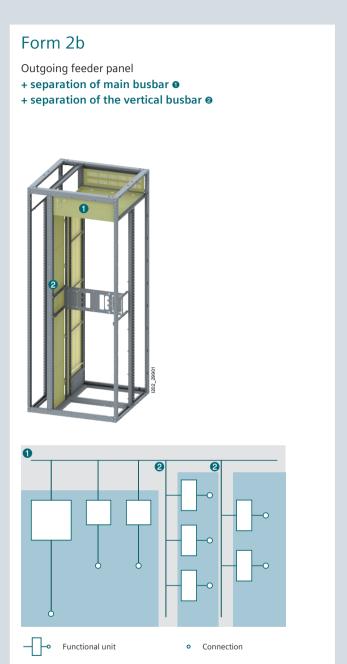
Cubicle keys				
	Version		Scope of supply	Article No.
	3 mm double bit		10 units	8PQ9400-0BA12
Inner door struts				
	Height		Article No.	
Cubicle ID plate	1975 mm			8PQ2197-0BA10
	Version			Article No.
SIEMENS	SIVACON designed	by Siemens		8PQ9400-0BA06
Reinforcements for transport				
	Height	Width/depth		Article No.
	100 mm	350 mm		8PQ1010-0BA06
		400 mm		8PQ1014-0BA02
		600 mm		8PQ1016-0BA02
		800 mm		8PQ1018-0BA02
		850 mm		8PQ1010-0BA07

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Internal separation

Quick selection guide

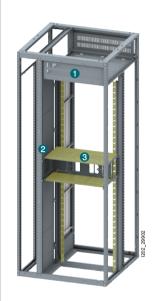


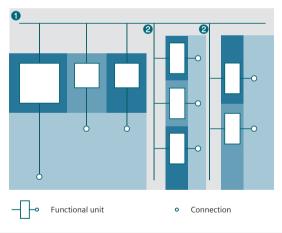


Form 3b

Outgoing feeder panel With separation of main busbar o With separation of the vertical busbar 2

+ separation of device compartments (functional units) 9





Form 4b

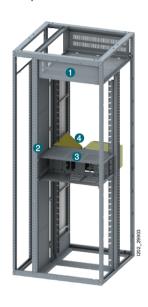
Outgoing feeder panel

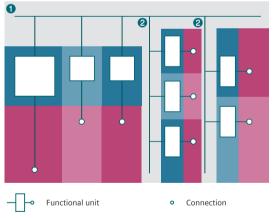
With separation of main busbar o

With separation of the vertical busbar 2

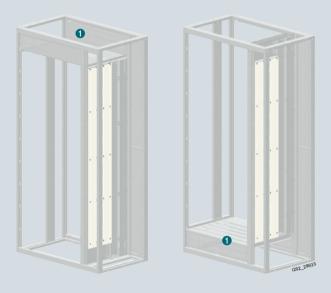
With separation of device compartments (functional units) 9

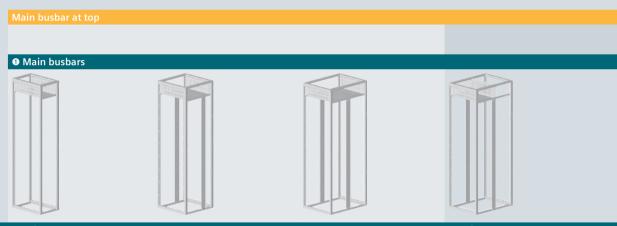
+ separation of connections 4





Main busbar, form 2b





Width	Depth			Depth	
	400 mm	600 mm	800 mm	800 mm	
200 mm	8PQ3000-1BA52	8PQ3000-1BA53	8PQ3000-1BA55	8PQ3000-1BA54	
350 mm	8PQ3000-2BA68	8PQ3000-2BA71	8PQ3000-2BA75	8PQ3000-2BA73	
400 mm	8PQ3000-0BA67	8PQ3000-0BA52	8PQ3000-0BA58	8PQ3000-0BA55	
600 mm	8PQ3000-0BA68	8PQ3000-0BA53	8PQ3000-0BA60	8PQ3000-0BA56	
800 mm	8PQ3000-0BA70	8PQ3000-0BA54	8PQ3000-0BA61	8PQ3000-0BA57	
850 mm	8PQ3000-2BA70	8PQ3000-2BA72	8PQ3000-2BA76	8PQ3000-2BA74	
1000 mm	8PQ3000-1BA13	8PQ3000-1BA14	8PQ3000-1BA20	8PQ3000-1BA17	
1200 mm	8PQ3000-1BA15	8PQ3000-1BA16	8PQ3000-1BA21	8PQ3000-1BA18	

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Depth Depth 400 mm 600 mm 800 mm 800 mm 800 mm 8PQ3000-3BA13 8PQ3000-3BA22 8PQ3000-3BA31 8PQ3000-2BA77 8PQ3000-3BA14 8PQ3000-3BA23 8PQ3000-3BA32 8PQ3000-0BA78 8PQ5000-4BA24 8PQ3000-3BA15 8PQ3000-3BA24 8PQ3000-3BA33 8PQ3000-0BA80 8PQ5000-4BA25 8PQ3000-3BA16 8PQ3000-3BA25 8PQ3000-3BA34 8PQ3000-0BA81 8PQ5000-4BA26 8PQ3000-3BA17 8PQ3000-3BA35 8PQ3000-2BA78 8PQ3000-3BA26 8PQ3000-3BA18 8PQ3000-3BA27 8PQ3000-3BA36 8PQ3000-1BA22 8PQ5000-4BA27 8PQ3000-3BA20 8PQ3000-3BA28 8PQ3000-3BA37 8PQ3000-1BA23

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Internal separation

Vertical busbar, form 2b



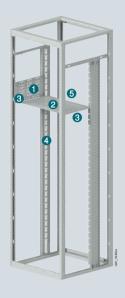


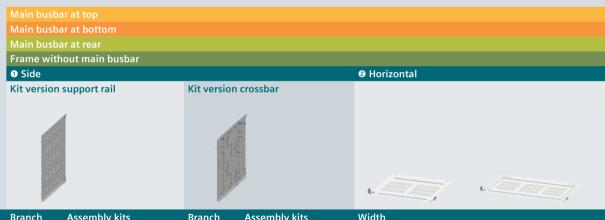
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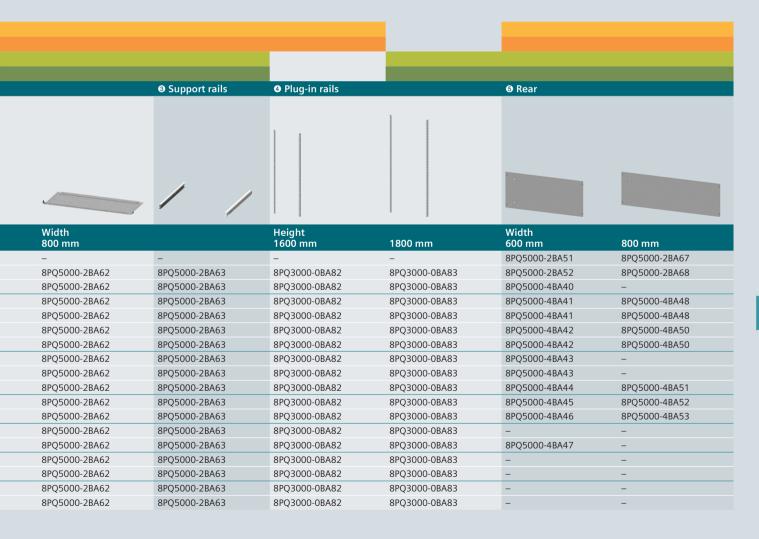
Internal separation

Modular kits, form 3b





Height	Branch current	Assembly kits	Branch current	Assembly kits	Width 400 mm	600 mm	
50 mm		-		-	-	-	
100 mm		8PQ5000-2BA27		-	8PQ5000-3BA44	8PQ5000-2BA61	
150 mm		8PQ5000-2BA28		-	8PQ5000-3BA44	8PQ5000-2BA61	
200 mm	≤250 A	8PQ5000-2BA30		-	8PQ5000-3BA44	8PQ5000-2BA61	
	≥400 A	8PQ5000-2BA31		-	8PQ5000-3BA44	8PQ5000-2BA61	
250 mm	≤250 A	8PQ5000-2BA32		-	8PQ5000-3BA44	8PQ5000-2BA61	
	≥400 A	8PQ5000-2BA33		-	8PQ5000-3BA44	8PQ5000-2BA61	
300 mm	≤250 A	8PQ5000-2BA34		-	8PQ5000-3BA44	8PQ5000-2BA61	
	≥400 A	8PQ5000-2BA35		-	8PQ5000-3BA44	8PQ5000-2BA61	
350 mm		8PQ5000-2BA36		-	8PQ5000-3BA44	8PQ5000-2BA61	
400 mm		8PQ5000-2BA37	≥800 A	8PQ5000-3BA50	8PQ5000-3BA44	8PQ5000-2BA61	
450 mm		8PQ5000-2BA38	≥800 A	8PQ5000-2BA65	8PQ5000-3BA44	8PQ5000-2BA61	
500 mm		8PQ5000-2BA40	≥800 A	8PQ5000-2BA66	8PQ5000-3BA44	8PQ5000-2BA61	
550 mm		8PQ5000-2BA41		-	8PQ5000-3BA44	8PQ5000-2BA61	
600 mm		8PQ5000-2BA42	≥800 A	8PQ5000-2BA48	8PQ5000-3BA44	8PQ5000-2BA61	
650 mm		8PQ5000-2BA43		-	8PQ5000-3BA44	8PQ5000-2BA61	
700 mm		8PQ5000-2BA44	≥800 A	8PQ5000-2BA50	8PQ5000-3BA44	8PQ5000-2BA61	
800 mm		8PQ5000-2BA45		=	8PQ5000-3BA44	8PQ5000-2BA61	



Internal separation

Accessories

onnecting terminals				
	Rated current	Busbar	Scope of supply	Article No.
I	-	-	4 units	8PQ5000-0BA05
	250 A	2× 25 × 5 mm	2 units	8PQ5000-0BA72
	400 A	30 × 10 mm	4 units	8PQ5000-0BA73
	630 A	40 × 10 mm	4 units	8PQ5000-0BA74
tective bellows				
	Version		Scope of supply	Article No.
	For connecting terminal		4 units	8PQ9400-0BA71
f-tapping screws – fran		Version	Coope of supply	Autiala Na
	Version	Version	Scope of supply	Article No.
	Cylinder-head screws	M6 × 10 mm	100 units	8PQ9500-0BA34
1		M6 × 16 mm	100 units	8PQ9500-0BA32
T30		M6 × 20 mm	100 units	8PQ9500-0BA31
	Covering caps	M6, RAL 7035	100 units	8PQ9400-0BA14
	Countersunk screws	M6 × 12 mm	100 units	8PQ9500-1BA07
indardized parts - electi	rical connections			_
	Version	Version	Scope of supply	Article No.
	Hexagonal nuts	For M10	50 units	8PQ9500-0BA05
	Spring washers	For M10	50 units	8PQ9500-0BA60
	Plain washers	For M10	50 units	8PQ9500-0BA67
	Lock washers	For M10	50 units	8PQ9500-0BA50

Universal mounting brackets				
			Scope of supply	Article No.
			10 units	8PQ9400-0BA01
Transport aids				
	Version	Width	Scope of supply	Article No.
P P	Lifting eyebolts	-	4 units	8PQ9400-0BA11
Q				
	Lifting brackets	800 mm	2 units	8PQ3000-1BA01
		850 mm	2 units	8PQ3000-2BA38
		1000 mm	2 units	8PQ3000-1BA02
		1200 mm	2 units	8PQ3000-1BA03
Cable entries				
	Version		Scope of supply	Article No.
	Cables with diam. up to 20 m	m	20 units	8PQ9400-0BA16
	Cables with diam. 14 38 mi	m	6 units	8PQ9400-0BA33
Torx bits for screwdriver				
	Length		Scope of supply	Article No.
	200 mm		2 units	8PQ9400-0BA10
Extended delivery options				
THE THE	After prior consultation wit	h ALPHA-support.ic@siemens.com		
*****	Version	Description		Article No.
	Pre-assembled solutions	Based on SIMARIS configuration In various expansion stages Mechanically with or without		8PQ9998-0BA20-Z
	Copper for system sections	Drawings from SIMARIS		8PQ9998-0BA30-Z

ALPHA UNIVERSAL system overview

Distribution boards, assembly kits and accessories





Unequipped distribution boards







ALPHA 800

ALPHA 630

ALPHA 125

Assembly kits













For molded case circuit breakers

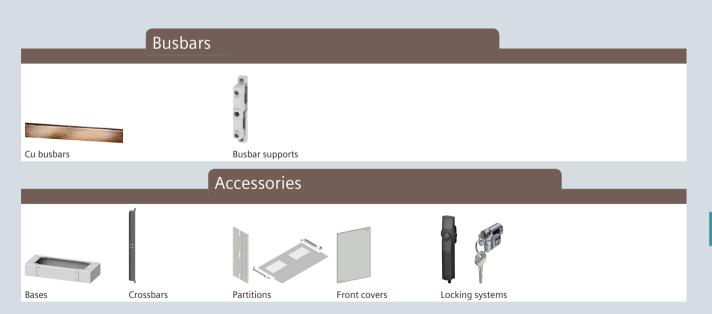
For switch disconnectors

For fuse switch disconnectors

For inst

For modular installation devices





ALPHA 800 UNIVERSAL floor-mounted distribution boards

Rated current 800 A

Accessories

Unequipped distribution boards

Degree of protection IP30/IP55



Unequipped

distribution boards

					•
Height		Depth	Width		Safety class I
outside	inside	outside	outside	inside	
1850 mm	1800 mm	400 mm	350 mm	300 mm	8GK2420-6KK14
			650 mm	600 mm	8GK2420-6KK24
			950 mm	900 mm	8GK2420-6KK34
2050 mm	2000 mm	400 mm	350 mm	300 mm	8GK2420-7KK14
			650 mm	600 mm	8GK2420-7KK24
			950 mm	900 mm	8GK2420-7KK34

10003301103					distribution boa
Sheet-steel doo	rs				
	Versions	Width	Cubicle height	Cubicle width	Article No.
4	Standard	_	1800 mm	300 mm	8GK9515-8KK11
				600 mm	8GK9515-8KK21
				900 mm	8GK9515-8KK31
			2000 mm	300 mm	8GK9515-8KK12
				600 mm	8GK9515-8KK22
				900 mm	8GK9515-8KK32
	For cable compartment	250 mm	1800 mm	900 mm	8GK9515-8KK41
			2000 mm	900 mm	8GK9515-8KK42
ansparent do	ors				
	Versions		Cubicle height	Cubicle width	Article No.
1	Standard		1800 mm	300 mm	8GK9505-8KK12
				600 mm	8GK9505-8KK21
				900 mm	8GK9505-8KK31
J			2000 mm	300 mm	8GK9505-8KK10
				600 mm	8GK9505-8KK22
				900 mm	8GK9505-8KK32
1	Giugiaro design		1800 mm	600 mm	8GK9507-8KK21
				900 mm	8GK9507-8KK31
			2000 mm	600 mm	8GK9507-8KK22
				900 mm	8GK9507-8KK32
ouble doors					
	Versions	Width	Cubicle height	Cubicle width	Article No.
	Made of sheet steel	600 + 250 mm	1800 mm	900 mm	8GK9515-8KK21 8GK9515-8KK41
			2000 mm	900 mm	8GK9515-8KK22 8GK9515-8KK42
1	Transparent door + sheet-steel door	600 + 250 mm	1800 mm	900 mm	8GK9505-8KK21 8GK9515-8KK41
"			2000 mm	900 mm	8GK9505-8KK22 8GK9515-8KK42
1	Transparent door in Giugiaro design + sheet-steel door	600 + 250 mm	1800 mm	900 mm	8GK9507-8KK21 8GK9515-8KK41
"			2000 mm	900 mm	8GK9507-8KK22 8GK9515-8KK42

Accessories					Unequipped distribution boards
Vertical profile ba	ars for compartment/busbars				
			Cubicle height	Cubicle width	Article No.
			1800 mm	300/600/900 mm	8GK9200-8KK00
			2000 mm	300/600/900 mm	8GK9200-8KK01
<u> </u>					
Front covers for o	cabling compartment				
	Height	Width	Cubicle height	Cubicle width	Article No.
	800 + 1000 mm	250/300 mm	1800 mm	300 mm	8GK9607-5KK10+
					8GK9607-7KK10
				900 mm	8GK9606-5KK10 +
					8GK9606-7KK10
The same of the sa	1000 + 1000 mm	250/300 mm	2000 mm	300 mm	8GK9607-7KK10 +
					8GK9607-7KK10
				900 mm	8GK9606-7KK10 +
					8GK9606-7KK10
Bases					
	Color	Height	Cubicle height	Cubicle width	Article No.
	Blue-green	100 mm	1800/2000 mm	300 mm	8GK9906-0KK15
				600 mm	8GK9906-0KK25
				900 mm	8GK9906-0KK35
Sido papals					_
Side panels	Color		Cubicle height	Cubicle width	Article No.
	RAL 7035 (pair)		1800 mm	300/600/900 mm	8GK9200-8KK04
	KAL 7035 (pail)		2000 mm		
			2000 mm	300/600/900 mm	8GK9200-8KK05
	Blue-green		1800 mm	300/600/900 mm	8GK9200-8KK07
- F	blue green		2000 mm	300/600/900 mm	8GK9200-8KK08
			2000 111111	30070007300111111	OGR9200-ORROO
Supports					
oupports	Versions	Height			Article No.
• 1	Mounting stays (pair)	1600 mm			8GK6850-0KK02
	g stays (pair)	1800 mm			8GK6850-0KK03
		2000 mm			8GK6850-0KK04
	Rear universal supports	1800 mm			8GK6850-0KK05
	hear universal supports	2000 mm			8GK6850-0KK06
Crossbars		2000 111111			000000-00000
CIOSSDAIS	Varaiana				Autiala Na
4	Versions Upper crossbar				Article No. 8GK6850-0KK00
1	Lateral crossbar				8GK6850-0KK01
19.00					
	Adapter for installation of	mbly kits in the sabling assessed	ertmont width 350 mm (2	(tc)	9CK0030 0KK01
00	Adapter for installation of asse	mility kits in the capling compa	irunent, width 250 mm (2 uni	is)	8GK9920-0KK01
B					

ALPHA 630 UNIVERSAL wall-mounted distribution boards

Rated current 630 A

	Flat pack	Unequipped distribution boards	Distribution boards with built-in distribution board panels
Degree of protection	IP43	IP30	IP55
			5000-

Height		Depth	Width		Safety class I	Safety class I	Safety class I
outside	inside	outside	outside	inside			
450 mm	400 mm	250 mm	650 mm	600 mm	8GK2100-0KS23	-	-
650 mm	600 mm	250 mm	650 mm	600 mm	8GK2100-1KS23	8GK2124-1KK23	-
850 mm	800 mm	250 mm	650 mm	600 mm	8GK2100-2KS23	8GK2124-2KK23	8GK9988-0KL00
1050 mm	1000 mm	250 mm	650 mm	600 mm	8GK2100-3KS23	8GK2124-3KK23	8GK9988-0KL01
			950 mm	900 mm	8GK2100-4KS23	8GK2124-3KK33	-
1250 mm	1200 mm	250 mm	650 mm	600 mm	8GK2100-3KL23	8GK2124-4KK23	8GK9988-0KL02
			950 mm	900 mm	8GK2100-4KL23	8GK2124-4KK33	_

				Flat pack	distribution boards
	/ersions	Cubiala haiseha	Cubicle width	Article No.	Article No.
	Standard	Cubicle height			
	standard	400 mm	600 mm	8GK9515-3KK20	- 0000515 40020
				8GK9515-4KK20	8GK9515-4KK20
		800 mm	600 mm	8GK9515-5KK20	8GK9515-5KK23
		1000 mm	600 mm	8GK9515-6KK20	8GK9515-6KK23
			900 mm	8GK9515-6KK30	8GK9515-6KK33
		1200 mm	600 mm	8GK9515-7KK20	8GK9515-7KK23
_			900 mm	8GK9515-7KK30	8GK9515-7KK33
F	For cable compartment	1000 mm	900 mm	8GK9515-6KK40	8GK9515-6KK43
		1200 mm	900 mm	8GK9515-7KK40	8GK9515-7KK33
			600 + 300 mm	-	8GK9515-7KK43
Transparent doors					
V	/ersions	Cubicle height	Cubicle width	Article No.	Article No.
S	Standard	400 mm	600 mm	8GK9505-3KK20	-
		600 mm	600 mm	8GK9505-4KK20	8GK9505-4KK20
		800 mm	600 mm	8GK9505-5KK20	8GK9505-5KK23
		1000 mm	600 mm	8GK9505-6KK20	8GK9505-6KK23
			900 mm	8GK9505-6KK30	8GK9505-6KK33
		1200 mm	600 mm	8GK9505-7KK20	8GK9505-7KK23
			900 mm	8GK9505-7KK30	8GK9505-7KK33
<u> </u>	Giugiaro design	400 mm	600 mm	8GK9507-2KK23	-
		600 mm	600 mm	8GK9507-4KK23	8GK9507-4KK23
		800 mm	600 mm	8GK9507-5KK23	8GK9507-5KK23
		1000 mm	600 mm	8GK9507-7KK23	8GK9507-7KK23
			900 mm	8GK9507-7KK33	8GK9507-7KK33
		1200 mm	600 mm	8GK9507-8KK23	8GK9507-8KK23
			900 mm	8GK9507-8KK33	8GK9507-8KK33

Accessories					Flat pack	Unequipped distribution boards
Double doors		and tel			A 22 1 A1	
	Versions	Width	Cubicle height	Cubicle width	Article No.	Article No.
	Made of sheet steel	600 + 250 mm ¹⁾	1000 mm	900 mm	8GK9515-6KK20 + 8GK9515-6KK40	8GK9515-6KK23 + 8GK9515-6KK43
"			1200 mm	900 mm	8GK9515-7KK20 + 8GK9515-7KK40	8GK9515-7KK23 + 8GK9515-7KK43
4	Transparent door + sheet-steel door	600 + 250 mm	1000 mm	900 mm	8GK9505-6KK20 + 8GK9515-6KK40	8GK9505-6KK23 + 8GK9515-6KK43
"			1200 mm	900 mm	8GK9505-7KK20 + 8GK9515-7KK40	8GK9505-7KK23 + 8GK9515-7KK43
4	Transparent door in Giugiaro design	600 + 250 mm ¹⁾	1600 mm	900 mm	8GK9507-7KK23 + 8GK9515-6KK40	8GK9507-7KK23 + 8GK9515-6KK43
11	+ sheet-steel door		1800 mm	900 mm	8GK9507-8KK23 + 8GK9515-7KK40	8GK9507-8KK23 + 8GK9515-7KK43
Vertical profile ba	ars for cabling compartm	ent				
			Cubicle height	Cubicle width	Article No.	Article No.
ii.			1000 mm	900 mm	8GK9125-7KK01	8GK9125-7KK01
			1200 mm	900 mm	8GK9127-8KK01	8GK9127-8KK01
Front covers for c	abling compartment					
	Height	Width	Cubicle height	Cubicle width	Article No.	Article No.
	1000 mm	250/300 mm	1000 mm	900 mm	8GK9606-7KK10	8GK9606-7KK10
	600 + 600 mm	250/300 mm	1200 mm	900 mm	8GK9606-4KK10 + 8GK9606-4KK10	8GK9606-4KK10 + 8GK9606-4KK10
Bases						
	Color	Height	Cubicle height	Cubicle width	Article No.	Article No.
	Blue-green	100 mm	600/1200 mm	600 mm	8GK9906-0KK23	8GK9906-0KK23
			1000/1200 mm	900 mm	8GK9606-4KK10	8GK9906-0KK33
Covers for cable 6	entry and cable duct					
			Cubicle height	Cubicle width	Article No.	Article No.
			600/1200 mm	600 mm	8GK9920-0KK41	8GK9920-0KK41
			1000/1200 mm	900 mm	8GK9920-0KK42	8GK9920-0KK42
Side panels	6.1				A 22 1 A2	
	Color		Cubicle height	Cubicle width	Article No.	Article No.
Tea.	Blue-green		600 mm	600 mm	-	8GK9122-4KK01
			800 mm	600 mm	-	8GK9122-5KK01
			1000 mm	600/900 mm	-	8GK9122-6KK01
			1200 mm	600/900 mm	-	8GK9122-7KK01

¹⁾ For distribution boards of width 900 with double door and vertical profile bar

ALPHA 630 UNIVERSAL floor-mounted distribution boards

Rated current 630 A



Height		Depth	Width		Safety class I	Safety class I	Safety class I	Safety class I
outside	inside	outside	outside	inside				
1650 mm	1600 mm	250 mm	350 mm	300 mm	8GK2300-5KL13	8GK2325-5KK13	-	-
			650 mm	600 mm	8GK2300-5KL23	8GK2325-5KK23	-	-
			950 mm	900 mm	8GK2300-5KL43	8GK2325-5KK43	-	-
1850 mm 1800 mm	250 mm	350 mm	300 mm	8GK2300-6KL13	8GK2325-6KK13	-	-	
			650 mm	600 mm	8GK2300-6KL23	8GK2325-6KK23	8GK2348-7KL00	8GK2348-7KL01
			950 mm	900 mm	8GK2300-6KL43	8GK2325-6KK43	-	-
2050 mm	2000 mm	250 mm	350 mm	300 mm	8GK2300-7KL13	8GK2325-7KK13	-	-
			650 mm	600 mm	8GK2300-7KL23	8GK2325-7KK23	-	-
			950 mm	900 mm	8GK2300-7KL43	8GK2325-7KK43	-	-

ALPHA 630 UNIVERSAL floor-mounted distribution boards

Rated current 630 A

Accessories					Flat pack	Unequipped distribution boar
Sheet-steel doors	Varaione	\\\! alab	Cubiala baimba	Cubiala width	Autiala Na	Autiala Na
	Versions Standard	Width	Cubicle height 1600 mm	Cubicle width 300 mm	Article No. 8GK9515-8KK10	Article No. 8GK9515-8KK10
	Stallualu	_	1600 111111	600 mm	8GK9515-8KK20	8GK9515-8KK20
				900 mm	8GK9515-8KK30	8GK9515-8KK30
			1800 mm	300 mm	8GK9515-8KK11	8GK9515-8KK11
			1000 111111	600 mm	8GK9515-8KK21	8GK9515-8KK21
				900 mm	8GK9515-8KK31	8GK9515-8KK31
			2000 mm	300 mm	8GK9515-8KK12	8GK9515-8KK12
			2000 111111	600 mm	8GK9515-8KK22	8GK9515-8KK22
				900 mm	8GK9515-8KK32	8GK9515-8KK32
	For cable compartment	250 mm	1600 mm	900 mm	8GK9515-8KK40	8GK9515-8KK40
	Tor cubic compartment	230 11111	1800 mm	900 mm	8GK9515-8KK41	8GK9515-8KK41
			2000 mm	900 mm	8GK9515-8KK42	8GK9515-8KK42
ransparent doors			2000 111111	900 IIIII	0GR9313-8RR42	8GR9313-8KR42
	Versions		Cubicle height	Cubicle width	Article No.	Article No.
1	Standard		1600 mm	300 mm	8GK9505-8KK11	8GK9505-8KK11
				600 mm	8GK9505-8KK20	8GK9505-8KK20
				900 mm	8GK9505-8KK30	8GK9505-8KK30
J			1800 mm	300 mm	8GK9505-8KK12	8GK9505-8KK12
				600 mm	8GK9505-8KK21	8GK9505-8KK21
				900 mm	8GK9505-8KK31	8GK9505-8KK31
			2000 mm	300 mm	8GK9505-8KK10	8GK9505-8KK10
				600 mm	8GK9505-8KK22	8GK9505-8KK22
				900 mm	8GK9505-8KK32	8GK9505-8KK32
1	Giugiaro design		1600 mm	600 mm	8GK9507-8KK20	8GK9507-8KK20
				900 mm	8GK9507-8KK30	8GK9507-8KK30
			1800 mm	600 mm	8GK9507-8KK21	8GK9507-8KK21
J				900 mm	8GK9507-8KK31	8GK9507-8KK31
			2000 mm	600 mm	8GK9507-8KK22	8GK9507-8KK22
				900 mm	8GK9507-8KK32	8GK9507-8KK32
ouble doors						
	Versions	Width	Cubicle height	Cubicle width	Article No.	Article No.
1	Made of sheet steel	600 + 250 mm	1600 mm	900 mm	8GK9515-8KK20 + 8GK9515-8KK40	8GK9515-8KK20 + 8GK9515-8KK40
1			1800 mm	900 mm	8GK9515-8KK21 + 8GK9515-8KK41	8GK9515-8KK21 - 8GK9515-8KK41
			2000 mm	900 mm	8GK9515-8KK22 + 8GK9515-8KK42	8GK9515-8KK22 - 8GK9515-8KK42
1	Transparent door + sheet-steel door	600 + 250 mm	1600 mm	900 mm	8GK9505-8KK20 + 8GK9515-8KK40	8GK9505-8KK20 - 8GK9515-8KK40
			1800 mm	900 mm	8GK9505-8KK21 + 8GK9515-8KK41	8GK9505-8KK21 - 8GK9515-8KK41
			2000 mm	900 mm	8GK9505-8KK22 + 8GK9515-8KK42	8GK9505-8KK22 - 8GK9515-8KK42
	Transparent door in Giugiaro design	600 + 250 mm	1600 mm	900 mm	8GK9507-8KK20 + 8GK9515-8KK40	8GK9507-8KK20 - 8GK9515-8KK40
	+ sheet-steel door		1800 mm	900 mm	8GK9507-8KK21 + 8GK9515-8KK41	8GK9507-8KK21 - 8GK9515-8KK41
			2000 mm	900 mm	8GK9507-8KK22 + 8GK9515-8KK42	8GK9507-8KK22 - 8GK9515-8KK42
ertical profile bar	rs for cabling compartme	ent				A 42 1 22
			Cubicle height	Cubicle width	Article No.	Article No.
			1600 mm	900 mm	8GK9125-8KK11	8GK9125-8KK11
			1800 mm	900 mm	8GK9125-8KK12	8GK9125-8KK12
			2000 mm	900 mm	8GK9125-8KK13	8GK9125-8KK13

Accessories					Flat pack	Unequipped distribution boards
Front covers for ca	bling compartment					
	Height	Width	Cubicle height	Cubicle width	Article No.	Article No.
	800 + 800 mm	250/300 mm	1600 mm	300 mm	8GK9607-5KK10 + 8GK9607-5KK10	8GK9607-5KK10 + 8GK9607-5KK10
				900 mm	8GK9606-5KK10 + 8GK9606-5KK10	8GK9606-5KK10 + 8GK9606-5KK10
	800 + 1000 mm	250/300 mm	1800 mm	300 mm	8GK9607-5KK10 + 8GK9607-7KK10	8GK9607-5KK10 + 8GK9607-7KK10
				900 mm	8GK9606-5KK10 + 8GK9606-7KK10	8GK9606-5KK10 + 8GK9606-7KK10
	1000 + 1000 mm	250/300 mm	2000 mm	300 mm	8GK9607-7KK10 + 8GK9607-7KK10	8GK9607-7KK10 + 8GK9607-7KK10
				900 mm	8GK9606-7KK10 + 8GK9606-7KK10	8GK9606-7KK10 + 8GK9606-7KK10
Bases						
	Color	Height	Cubicle height	Cubicle width	Article No.	Article No.
	Blue-green	100 mm	1600/2000 mm	300 mm	8GK9906-0KK13	8GK9906-0KK13
			1600/2000 mm	600 mm	8GK9906-0KK23	8GK9906-0KK23
			1600/2000 mm	900 mm	8GK9906-0KK33	8GK9906-0KK33
Covers for cable er	ntry and cable duct					
			Cubicle height	Cubicle width	Article No.	Article No.
N			1600/2000 mm	300 mm	8GK9920-0KK40	8GK9920-0KK40
			1600/2000 mm	600 mm	8GK9920-0KK41	8GK9920-0KK41
			1600/2000 mm	900 mm	8GK9920-0KK42	8GK9920-0KK42
Side panels						
	Color		Cubicle height	Cubicle width	Article No.	Article No.
	RAL 7035 (pair)		1600 mm	300/600/900 mm	8GK9120-8KK00	8GK9122-8KK03
			1800 mm	300/600/900 mm	8GK9120-8KK01	8GK9122-8KK04
			2000 mm	300/600/900 mm	8GK9120-8KK02	8GK9122-8KK05

ALPHA UNIVERSAL 125 distribution boards

Rated current 125 A



Height		Depth	Width		Tiers	Safety class I	Safety class I	Safety class I	Safety class I
outside	inside	outside	outside	inside	(MW = 18 mm)				
450 mm	400 mm	140 mm	660 mm	600 mm	48 (2 × 24)	8GK2042-0KL21	8GK2042-0KM21	-	-
650 mm	600 mm	140 mm	660 mm	600 mm	72 (3 × 24)	8GK2042-1KL21	8GK2042-1KM21	-	-
800 mm	850 mm	140 mm	660 mm	600 mm	96 (4 × 24)	8GK2042-2KL21	8GK2042-2KM21	-	-
1050 mm	1000 mm	140 mm	660 mm	600 mm	120 (5 × 24)	8GK2042-3KL21	8GK2042-3KM21	-	-
1250 mm	1200 mm	140 mm	660 mm	600 mm	144 (6 × 24)	8GK2042-4KL21	8GK2042-4KM21	-	-
508 mm	400 mm	140 mm	718 mm	600 mm	48 (2 × 24)	-	_	8GK2043-0KL21	8GK2043-0KM21
708 mm	600 mm	140 mm	718 mm	600 mm	72 (3 × 24)	-	_	8GK2043-1KL21	8GK2043-1KM21
908 mm	800 mm	140 mm	718 mm	600 mm	96 (4 × 24)	-	_	8GK2043-2KL21	8GK2043-2KM21
1108 mm	1000 mm	140 mm	718 mm	600 mm	120 (5 × 24)	-	_	8GK2043-3KL21	8GK2043-3KM21
1308 mm	1200 mm	140 mm	718 mm	600 mm	144 (6 × 24)	-	-	8GK2043-4KL21	8GK2043-4KM21

Accessories

Accessories				
Front covers				
	 With quick-lock screws 	and integrated grou	unding connection	
	Version	Height	Width	Article No.
	Closed	50 mm	600 mm	8GK9620-1KK20
		100 mm	600 mm	8GK9621-1KK20
		150 mm	600 mm	8GK9622-1KK20
		200 mm	600 mm	8GK9623-1KK20
		400 mm	600 mm	8GK9622-2KK20
		600 mm	600 mm	8GK9622-4KK20
		800 mm	600 mm	8GK9622-5KK20
	For modular installation	150 mm	600 mm	8GK9608-1KK22
	devices	200 mm	600 mm	8GK9608-1KK20
		300 mm	600 mm	8GK9608-2KK22
		400 mm	600 mm	8GK9608-2KK20
		450 mm	600 mm	8GK9608-3KK22
		600 mm	600 mm	8GK9608-4KK20
Standard mountin	ng rails for modular installation	devices		
A.	Width			Article No.
	600 mm			8GK9920-0KK11
Holders for cable	duct			
19	Width			Article No.
	600 mm			8GK9920-0KK20
11				
Grounding bars, P				
	Width			Article No.
	$600 \text{ mm } (20 \times 5 \text{ mm}^2)$			8GK9920-0KK10
Hinges for covers				
	Version			Article No.
	For hinged covers			8GK9120-0KK11
Rotary handles				
	Version	Color		Article No.
	Plastic	Black		8GK9560-0KK04
	Lockable	Black		8GK9560-0KK13
	Lockabic	Diack		Calco Soc Chiefs
7				
Profile semicylind				
AND STATE OF THE S	Version			Article No.
(3)	Insert and key 8GK9560			8GK9560-0KK07
T.				
Rotary handles fo	r profile semicylinders			
namares 10	Version			Article No.
9	For 40 mm profile semicy	linders		8GK9560-0KK06
	ror to min prome sernicy			GGRASSOO GRAGO
7				

Assembly kits

For 3VA molded case circuit breakers

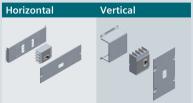
					Horizontal			
					HW J	1 3		
Туре	Height	Width	No. of	Operating mechanism	with RCD module	without RCD module		
	outside	outside	switching devices	Rotary	Infeed side			
3VA10 and 3VA11	200 mm	600 mm	1	-	8GK6735-2KK23	8GK6730-2KK23		
(100 A/160 A)			1		-	8GK6733-2KK23		
		900 mm	1	-	8GK6735-2KK33	8GK6730-2KK33		
			1	•	-	8GK6733-2KK33		
3VA12 (160 A/250 A)	200 mm	600 mm	1	-	8GK6736-2KK23	8GK6721-2KK23		
			1	•	-	8GK6734-2KK23		
		900 mm	1	-	8GK6736-2KK33	8GK6721-2KK33		
			1	•	-	8GK6734-2KK33		
3VA20 and 3VA22	200 mm	600 mm	1	-	8GK6725-2KK23	8GK6720-2KK23		
(100 A/160 A/250 A)			1	•	-	8GK6723-2KK23		
		900 mm	1	-	8GK6725-2KK33	8GK6720-2KK33		
			1	•	-	8GK6723-2KK33		
3VA23 and 3VA24	400 mm	600 mm	1	-	-	8GK6740-4KK23		
(400 A/630 A)		900 mm	1	-	8GK6745-4KK23	8GK6740-4KK33		



Туре	Height	Width	No. of	Operating mechanism	with RCD modu	le	without RCD module
	outside	outside	switching devices	Motor	Infeed side	At side	
3VA10 and 3VA11	200 mm	300 mm	1	-	-	-	8GK6731-2KK13
(100 A/160 A)		600 mm	3	-	-	-	8GK6731-2KK23
			3	•	-	-	8GK6734-4KK23
		900 mm	5	-	-	_	8GK6731-2KK33
			5	•	-	-	8GK6734-4KK33
	400 mm	250 mm	1	_	_	_	8GK6730-4KK43
		300 mm	1	_	_	8GK6731-6KK13	8GK6730-4KK13
			1	•	_	8GK6738-6KK13	8GK6734-4KK13
		600 mm	3	_	_	8GK6731-6KK23	8GK6730-4KK23
			3	•	-	8GK6737-6KK23	-
		900 mm	5	_	_	_	8GK6730-4KK33
			3	_	_	_	8GK6731-6KK33
			3	•	-	8GK6737-6KK33	-
	600 mm	250 mm	1	_	8GK6735-4KK43	_	-
		300 mm	1	_	8GK6735-6KK13	_	-
			1		8GK6736-6KK13	_	-
		600 mm	3		8GK6736-6KK23	_	_
			3	_	8GK6735-6KK23	_	_
		900 mm	5		8GK6736-6KK33	_	_
3VA12 (160 A/250 A)	400 mm	300 mm	1	_	_	_	8GK6721-4KK13
		600 mm	3	_	_	_	8GK6721-4KK23
			3		_	_	8GK6722-6KK23
		900 mm	5	_	_	_	8GK6721-4KK33
			5		_	_	8GK6722-6KK33
	600 mm	250 mm	1	_	8GK6732-6KK13	_	8GK6730-6KK13
		300 mm	1	_	_	8GK6722-6KK13	8GK6721-6KK13
		600 mm	3	_	_	8GK6724-6KK23	8GK6721-6KK23
			3		_	8GK6723-6KK23	_
		900 mm	5	_	_	8GK6724-6KK33	8GK6721-6KK33
			5		_	8GK6723-6KK33	
3VA20 and 3VA22	400 mm	300 mm	1	_	_	_	8GK6720-4KK13
(100 A/160 A/250 A)		600 mm	3	_	_	_	8GK6720-4KK23
			3	•	_	_	8GK6724-4KK23
		900 mm	5	_	_	_	8GK6720-4KK33
			5		_	-	8GK6724-4KK33
	600 mm	300 mm	1	_	8GK6725-6KK13	_	-
		600 mm	3	_	8GK6725-6KK23	_	_
		900 mm	5	_	8GK6725-6KK33		_
3VA23 and 3VA24	600 mm	300 mm	1		-	_	8GK6740-6KK13
(400 A/630 A)	300 111111	600 mm	2	_	8GK6745-6KK23	_	8GK6740-6KK23
,		900 mm	3	_	8GK6745-6KK33		8GK6740-6KK33
		900 111111	3		0000740-00033	_	00K0740-0KK33

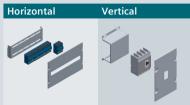
Assembly kits

For 3VL molded case circuit breakers



Туре	Version	Height	Width	No. of		
		outside	outside	switching devices		
/L160X – VL160 – VL250	Max. 250 A	200 mm	300 mm ²⁾	1	8GK6711-2KK13	-
			600 mm	3	8GK6710-2KK23	-
			900 mm	5	8GK6710-2KK33	_
		400 mm	250 mm ¹⁾	1	_	8GK6710-4KK13
			300 mm ²⁾	1	_	8GK6711-4KK13
			600 mm	3	_	8GK6710-4KK23
			900 mm	5	-	8GK6710-4KK33
	With rotary operating	200 mm	600 mm	3	8GK6711-2KK23	_
	mechanism		900 mm	5	8GK6701-2KK33	-
VL160X	With interconnected residual	300 mm	600 mm	1	_	8GK6710-3KK23
	current operated circuit breaker		900 mm	1	_	8GK6710-3KK33
	With residual current	200 mm	600 mm	3	8GK6712-2KK23	_
	operated circuit breaker		900 mm	5	8GK6704-2KK33	_
	mounted underneath	400 mm	250 mm ¹⁾	1	-	8GK6725-4KK13
		600 mm	250 mm ¹⁾	1	_	8GK6713-4KK13
			600 mm	3	_	8GK6710-6KK23
			900 mm	5	_	8GK6710-6KK33
VL160 – VL250	With residual current	200 mm	600 mm	3	8GK6713-2KK23	_
	operated circuit breaker		900 mm	5	8GK6705-2KK33	_
	mounted underneath	400 mm	250 mm ¹⁾	1	_	8GK6726-4KK13
		600 mm	250 mm ¹⁾	1	_	8GK6712-4KK13
			600 mm	3	_	8GK6711-6KK23
			900 mm	5	_	8GK6711-6KK33
 L400	Max. 400 A	200 mm	600 mm	1	8GK6714-2KK23	_
		200	900 mm	2	8GK6706-2KK33	_
		600 mm	250 mm ¹⁾	1	_	8GK6710-6KK13
			300 mm ²⁾	1	_	8GK6723-6KK13
			600 mm	1	_	8GK6712-6KK23
			900 mm	2	_	8GK6712-6KK33
	With residual current	200 mm	600 mm	1	8GK6715-2KK23	-
	operated circuit breaker	200 111111	900 mm	2	8GK6707-2KK33	_
	mounted underneath	600 mm	250 mm ¹⁾	1	- OGRO707 ZRR55	8GK6712-6KK13
		300 11111	300 mm ²⁾	1	_	8GK6727-6KK13
			600 mm	1	_	8GK6713-6KK23
			900 mm	2	_	8GK6713-6KK33
 L630	Max. 630 A	400 mm	600 mm	1	8GK6715-4KK23	- 00K0713-0KK33
	IVIAA. USU A	100 IIIII	900 mm	1	8GK6715-4KK33	_
		600 mm	250 mm ¹⁾	1		- 8GK6711-6KK13
		000 111111	300 mm ²⁾	1		8GK6724-6KK13
					_	8GK6724-6KK13 8GK6714-6KK23
			600 mm	1	_	
1,000	NA 000 A	600 -	900 mm	1	_	8GK6714-6KK33
L800	Max. 800 A	600 mm	600 mm	1	-	8GK6700-6KK24
	(for ALPHA 800 UNIVERSAL only)		900 mm	1	-	8GK6700-6KK34

For 3VT switch disconnectors



Туре	Height	Width	No. of switching devices		
	outside	outside			
3VT	200 mm	600 mm	1	8GK6750-2KK23	-
		900 mm	1	8GK6750-2KK33	-
	400 mm	250 mm ³⁾	1	-	8GK6750-4KK13
		300 mm ²⁾	2	-	8GK6751-4KK13
		600 mm	5	-	8GK6750-4KK23
		900 mm	7	-	8GK6750-4KK33
3VT2	200 mm	600 mm	1	8GK6754-2KK23	-
		900 mm	1	8GK6756-2KK33	-
	600 mm	250 mm ³⁾	1	-	8GK6750-6KK13
		300 mm ²⁾	1	-	8GK6753-6KK13
		600 mm	2	-	8GK6752-6KK23
		900 mm	3	-	8GK6752-6KK33
3VT3	400 mm	600 mm	1	8GK6755-4KK23	-
		900 mm	1	8GK6755-4KK33	-
	600 mm	250 mm ³⁾	1	-	8GK6751-6KK13
		300 mm ²⁾	1	-	8GK6754-6KK13
		600 mm	1	-	8GK6754-6KK23
		900 mm	1	-	8GK6754-6KK33

¹⁾ The assembly kits for 3VT1 molded case circuit breakers have a cover with a cutout and are designed to accommodate the installation of both 3 and 4-pole circuit breakers. If installing $\vec{3}$ -pole circuit breakers, we recommend that you do not leave the cutout open but cover it with blanking strip 8GK9910-0KK00. For further details, please refer to the mounting instructions at: http://support.automation.siemens.com/WW/view/en/53477794/130000

²⁾ In order to install assembly kits in the cubicles width 300 mm of the ALPHA 630 UNIVERSAL, you must order the following inner supports: 8GK9126-8KK03 (height 1600 mm), 8GK9126-8KK04 (height 1800 mm) and 8GK9126-8KK05 (height 2000 mm). In order to use cubicle width 300 mm in the ALPHA 800 UNIVERSAL as a switchgear compartment, you must order the following side supports: 8GK6850-0KK02 (height 1600 mm), 8GK6850-0KK03 (height 1800 mm) and 8GK6850-0KK04 (height 2000 mm).

³⁾ In order to install assembly kits in the cubicles width 250 mm of the ALPHA 630 UNIVERSAL you require the following mounting rails (pair): 8GF9655 (height 1000 mm), 8GF9656 (height 1200 mm), 8GF9650 (height 1600 mm), 8GF9658 (height 1800 mm) and 8GF9654 (height 2000 mm). In order to use box width 250 mm in the ALPHA 800 UNIVERSAL as a switchgear compartment, you must order side supports and, for each assembly kit, a pair of crossbars 8GK9920-0KK01.

Assembly kits

For 3KA7 switch disconnectors



	Description	Height outside	Width outside	Distribution board depth	No. of switching devices	
3KA7	3KA711 size 1 max. 125 A	200 mm	600 mm	-	1	8GK6400-2KK20
			900 mm	-	3	8GK6400-2KK30
		400 mm	250 mm ¹⁾	-	1	8GK6400-4KK10
			300 mm ²⁾	_	1	8GK6400-4KK11
	3KA712 size 2 max. 250 A	400 mm	250 mm ¹⁾	-	1	8GK6401-4KK10
			300 mm ²⁾	-	1	8GK6401-4KK12
			600 mm	-	1	8GK6400-4KK20
			900 mm	-	3	8GK6400-4KK30
	3KA713 size 3 max. 400 A	400 mm	600 mm	-	1	8GK6401-4KK20
			900 mm	-	3	8GK6400-4KK31
3KA7 / 3KL7	3KA7/3KL711 size 1 max. 125 A	200 mm	600 mm	250 mm	2	8GK6430-4KK24
			900 mm	250 mm	2	8GK6430-4KK34
		400 mm	250 mm	250 mm	1	8GK6430-4KK03
			300 mm	250 mm	1	8GK6430-4KK14
	3KA7/3KL712 size 2 max. 250 A	400 mm	250 mm	400 mm	1	8GK6431-4KK04
			300 mm	400 mm	1	8GK6431-4KK14
			600 mm	250 mm	2	8GK6431-4KK24
			900 mm	250 mm	2	8GK6431-4KK34
	3KA7/3KL713 size 3 max. 400 A	400 mm	600 mm	400 mm	1	8GK6432-4KK24
			900 mm	400 mm	1	8GK6432-4KK34
	3KA7/3KL714 size 4 max. 630 A	400 mm	600 mm	400 mm	1	8GK6433-4KK24
			900 mm	400 mm	1	8GK6433-4KK34

¹⁾ In order to use box width 250 mm in the ALPHA 630 UNIVERSAL as a switchgear compartment, the following mounting rails (pair) are required:

8GF9655 (height 1000 mm),

8GF9656 (height 1200 mm),

8GF9650 (height 1600 mm), 8GF9658 (height 1800 mm),

8GF9654 (height 2000 mm)

In order to use box width 250 mm in the ALPHA 800 UNIVERSAL as a switchgear compartment, you must order side supports and, for each assembly kit, a pair of crossbars 8GK9920-0KK01.

²⁾ In order to use cubicle width 300 mm in the ALPHA 630 UNIVERSAL as a switchgear compartment, you require the following inner supports: 8GK9126-8KK03 (height 1600 mm),

8GK9126-8KK04 (height 1800 mm),

8GK9126-8KK05 (height 2000 mm).

In order to use cubicle width 300 mm in the ALPHA 800 UNIVERSAL as a switchgear compartment, you must order the following side supports:

8GK6850-0KK02 (height 1600 mm), 8GK6850-0KK03 (height 1800 mm),

8GK6850-0KK04 (height 2000 mm).

³⁾ Switch disconnectors with door-coupling rotary operating mechanism with key interlocking cannot be mounted

For 3KF switch disconnectors with fuses



Туре	Rated current	Height	Width	Depth	Operating mechanism in center	Door-coupling rotary operating mechanism	
2× 3KF1	80 A	200 mm	600 mm	250 mm	•	-	8GK6431-2KK23
			900 mm	250 mm		-	8GK6431-2KK33
2× 3KF2	160 A	200 mm	600 mm	250 mm	•	-	8GK6432-2KK23
			900 mm	250 mm		-	8GK6432-2KK33
2× 3KF1/3KF2/3KF3/3KF4	400 A	400 mm	600 mm	400 mm	-	•	8GK6431-4KK33
			900 mm	400 mm	-	•	8GK6432-4KK33

For 3KD switch disconnectors



Height outside	Width outside	Size	No. of switching devices	Operating mechanism Door-coupling rotary operating mechanism	
400 mm	250 mm	1.2/3	1 / 1		8GK6430-4KK13
	600 mm	1.2 / 3.4	2/1	•	8GK6430-4KK23
	900 mm	1-4	2		8GK6430-4KK33

Assembly kits

For modular installation devices



Height	Width	No. of tiers	MW	
outside	outside			
150 mm	600 mm	1	24	8GK6302-1KK23
	900 mm	1	36	8GK6302-1KK33
200 mm	300 mm	1	12	8GK6352-2KK13
	600 mm	1	24	8GK6352-2KK23
	900 mm	1	36	8GK6352-2KK33

Accessories

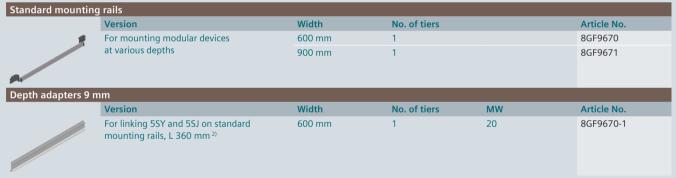
Version	Width	No. of tiers		Article No.
For mounting modular devices at	600 mm	1		8GF9670
various depths	900 mm	1		8GF9671
anters 9 mm				
apters 9 mm Version	Width	No. of tiers	MW	Article No.

For front cover with cutout



Height	Width	No. of tiers	MW	
outside	outside			
150 mm	600 mm	1	24	8GK9608-1KK22
	900 mm	1	36	8GK9608-1KK32
200 mm 600 mm 1 24 8GK9608-1KI 900 mm 1 36 8GK9608-1KI	8GK9608-1KK20			
	900 mm	1	36	8GK9608-1KK30
300 mm	600 mm	2	48	8GK9608-2KK22
	900 mm	2	72	8GK9608-2KK32
400 mm	600 mm	2	48	8GK9608-2KK20
	900 mm	2	72	8GK9608-2KK30
450 mm	600 mm	3	72	8GK9608-3KK22
600 mm	600 mm	3	72	8GK9608-4KK20
	900 mm	3	108	8GK9608-4KK30

Accessories



Busbars

Vertical installation of rear busbars (single bars only)









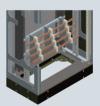


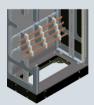
Version		Width 600/900 mm	For a spacing of 150 mm, width 600/900 mm	Recessed, width 600/900 mm	Width 300 mm	Recessed, width 300 mm
Busbar supports	:	8GF5764/65 (width 600 mm) 8GF5766/67 (width 900 mm)	8GF5762/63	8GF5764/65 (width 600 mm) 8GF5766/67 (width 900 mm)	8GF5768/70	8GF5768/70
Supplements:	Rear universal supports	8GK6850-0KK05 /06 (2 units)	8GK6850-0KK05 /06 (2 units)	8GK6850-0KK05 /06 (1 unit)	-	-

Horizontal busbars (single bars only)









Version		Front	Recessed	At front, with steps	Recessed, with steps
Busbar supports:		8GF5762/63	8GF5762/63	8GF5760/61	8GF5760/61
Supplements:	Support plate	8GF9652 (width 600 mm) 8GF9653 (width 900 mm)	8GF9652 (width 600 mm) 8GF9653 (width 900 mm)	8GK9920-0KK35 (width 600 mm) 8GK9920-0KK36 (width 900 mm)	8GF9652 (width 600 mm) 8GF9653 (width 900 mm)
	Support plate 8GF5762/63 8GF5762/63 8GF5760/61 8GF5 Support plate 8GF9652 8GF9652 8GK9920-0KK35 8GF9 (width 600 mm) 8GF9653 8GF9653 8GK9920-0KK36 8GF9	-			

Horizontal busbars at top (double bars only)



Version		
Busbar supports	With support plate	8GK9750-0KK02
	Without support plate	8PQ4000-1BA12
Supplements		If there is no support 8GK9750-0KK02 mounted onto the side of the cabling compartment,

you will need to order an upper crossbar 8GK6850-0KK00.

Vertical busbars, for sides









Version	Double busbar with steps	Single busbar with steps	Double busbar	Busbar
Busbar supports:	8GK9750-0KK01	8GF5760/61	8GK9750-0KK02	8GF5762/63
Supplements Lateral crossbar	8GK6850-0KK01	8GK6850-0KK01	8GK6850-0KK01	8GK6850-0KK01

Busbars

				ALPHA 630	ALPHA 800
Copper busbars					
Busbar cross-section Length 15 × 5 2000 mm 1300 mm 1300 mm 30 × 5 2000 mm 1300 mm 1300 mm 30 × 10 2000 mm 1300 mm 1300 mm Copper grounding bars Busbar cross-section Length 20 × 5 1300/2000 mm		Article No.	Article No.		
	Susbar cross-section	2000 mm		8GF5751	8GF5751
(1111		8GF5771			
	20 × 5	2000 mm		8GF5737	8GF5737
	. <u> </u>	1300 mm		8GF5772	8GF5772
	30 × 5	2000 mm		8GF5742	8GF5742
	15 × 5 20 × 5 30 × 5 30 × 10 3 bars Busbar cross-section	1300 mm		8GF5773	8GF5773
	30 × 10	2000 mm		8GF5752	8GF5752
$\frac{20 \times 5}{30 \times 5}$ $\frac{30 \times 5}{30 \times 10}$ Copper grounding bars		1300 mm		8GF5774	8GF5774
Copper grounding	j bars				
	Busbar cross-section	Length	Width	Article No.	Article No.
	20 × 5	1300/2000 mm	600 mm	8GK9920-0KK10	8GK9920-0KK10
			900 mm	8GK9920-0KK13	8GK9920-0KK13

Busbar suppor	rts				ALPHA 630	ALPHA 800
Vertical at side / ho	orizontal, at front, graded					
	Busbar cross-section	Width	Number of poles	Busbar center-to-center spacing	Article No.	Article No.
	15/20/30 × 5	600/900 mm	4-pole	50 mm	8GF5760	8GF5760
=	30 × 10	600/900 mm	4-pole	50 mm	8GF5761	8GF5761
E	15/20/30 × 10	600/900 mm	4-pole	50 mm	-	8GK9750-0KK01
	20/30 × 10	600/900 mm	4-pole	50 mm	-	8GK9750-0KK02
Vertical						
	Busbar cross-section	Width	Number of poles		Article No.	Article No.
	15/20/30 × 5	300 mm	4-pole	50 mm	8GF5768	8GF5768
	30 × 10	300 mm	4-pole	50 mm	8GF5770	8GF5770
Vertical at rear						
	Busbar cross-section	Width	Number of poles		Article No.	Article No.
	15/20/30 × 5	600 mm	4-pole	50 mm	8GF5764	8GF5764
		Poles Spacing	8GF5766			
	30 × 10	600 mm	4-pole	50 mm	8GF5765	8GF5765
	Bushar cross-section	8GF5767				
Horizontal, at fron	t 1)					
	Busbar cross-section	Width			Article No.	Article No.
	15/20/30 × 5		4-pole	50 mm	8GF5762	8GF5762
	30 × 10		4-pole	50 mm	8GF5763	8GF5763
		600/900 mm	4-pole	50 mm	-	8GK9608-1KK22
Horizontal, at top						
	Busbar cross-section				Article No.	Article No.
	20/30 × 10	Number of poles Subar center-to-center pole Subar center	-	8GK9750-0KK02 8PQ4000-1BA12		

¹⁾ Can be mounted directly on equipment racks with a clearance of 525 mm (width 600 mm) and 825 mm (width 900 mm).

Further access	ories				ALPHA 630	ALPHA 800
Set of screws/bolts	for slotted bars					
	Cross-section	Outer thread	Tightening torque		Article No.	Article No.
111	15/20/30 × 5	M6	8 Nm		8GF5891	8GF5891
RELEVEL STATE	30 × 10	M8	20 Nm		8GF5892	8GF5892
Crossbars for instal	lation of support					
	Version	Width			Article No.	Article No.
	For 8GF5762, 8GF5760,	600 mm			8GF9652	8GF9652
	8GF5763, 8GK9608-1KK22	900 mm			8GF9653	8GF9653
	For 8GF5760	600 mm		Article No. Article No. 8GF5891 8GF5891 8GF5892 8GF5892 Article No. Article No. 8GF9652 8GF9652	8GK9920-0KK35	
		900 mm			8GK9920-0KK36	8GK9920-0KK36
<i>*</i>	For 8GK9750-0KK02	400 mm			-	8GK6850-0KK00
	For 8GF5760, 8GF5768, 8GF5761, 8GF5770, 8GK9750- 0KK01, 8GK9750-0KK02	400 mm			-	8GK6850-0KK01
Transparent cover						
	Version	Width			Article No.	Article No.
h .	For horizontal busbars, at front	600 mm			8GK9920-0KK37	8GK9920-0KK37
		900 mm			8GK9920-0KK38	8GK9920-0KK38
Connecting kit for	double bars					
	Version			Current	Article No.	Article No.
	Connecting kit for upper horizon	ntal bars – vertical bus	sbars	800 A	-	8GK9790-0KK00
A000	Connecting kit for upper horizon	ital busbars		800 A	-	8GK9790-0KK01
Holder for groundi	ng bar					
					Article No.	Article No.
					-	8GK9750-0KK00

Accessories

	holders nting measuring in:	struments		_		125	630	8
ior moul	Measuring devi		Height	Width	Article No.			
	72 × 72	2 instruments +	200 mm	600 mm	8GK9610-1KK20	-		
135	72 × 72	2 selectors	200 111111	900 mm	8GK9610-1KK30			
130			200 mm		8GK9610-1KK30			
		4 instruments + 1 selector	200 mm	600 mm		-	-	
	06 06		200	900 mm	8GK9611-1KK30	-	-	
	96 × 96	2 instruments + 2 selectors	200 mm	600 mm	8GK9612-1KK20	_	-	
				900 mm	8GK9612-1KK30	-	•	
		4 instruments +	200 mm	600 mm	8GK9613-1KK20	-	•	
		1 selector		900 mm	8GK9613-1KK30		•	
for push	buttons and indica							
	Height	Width			Article No.			
	200 mm	600 mm			8GK9630-1KK20	•	•	
		900 mm			8GK9631-1KK20	•	•	
ansparen	t covers Height	Width			Article No.			
	50 mm	600 mm			8GK9620-1KK20	-		
	50 111111	900 mm			8GK9620-1KK20 8GK9620-1KK30	_		
	100 mm	600 mm			8GK9620-1KK30 8GK9621-1KK20	-		
	100 mm					-		
	450	900 mm			8GK9621-1KK30	-	-	-
	150 mm	600 mm			8GK9622-1KK20	-	•	
		900 mm			8GK9622-1KK30	-	-	
	200 mm	300 mm			8GK9607-1KK10	-	•	
		600 mm			8GK9623-1KK20	-	•	
		900 mm			8GK9623-1KK30	-	-	
	400 mm	250 mm			8GK9606-2KK10		•	
		300 mm			8GK9607-2KK10		•	
		600 mm			8GK9622-2KK20		•	
		900 mm			8GK9622-2KK30			
	600 mm	250 mm			8GK9606-4KK10	-		
		300 mm			8GK9607-4KK10			
		600 mm			8GK9622-4KK20			
		900 mm			8GK9622-4KK30			
	800 mm	250 mm			8GK9606-5KK10		_	
		300 mm			8GK9607-5KK10		_	
		600 mm			8GK9622-5KK20			
		900 mm			8GK9622-5KK30			
	1000 mm	250 mm			8GK9606-7KK10	-		
		300 mm			8GK9607-7KK10			
drawn cov	vers 25 mm	300 111111			CONSCOT THAT		_	
	Height	Width			Article No.			
	800 mm	600 mm			8GK9635-5KK20	-		
	000 11111	900 mm			8GK9635-5KK30			
	1000 mm	600 mm			8GK9636-7KK20	-		
	1000 111111	900 mm			8GK9636-7KK20 8GK9636-7KK30			
drawn fro	ont covers 35 mm	900 111111			000/3020-////20	•	•	
	Height	Width			Article No.			
	200 mm	600 mm			8GK9605-1KK20			
	200 11111	900 mm			8GK9605-1KK30			
	400 mm							
	400 mm	600 mm			8GK9605-2KK20	-		
		900 mm			8GK9605-2KK30		-	
	600 mm	600 mm			8GK9605-4KK20			

Covers with ventilation openings IP30 Height Width Article No. 200 mm 600 mm 86K9632-1KK20 1900 mm 86K9633-1KK20 1900 mm	E	:
200 mm 86K9632-1KK20 900 mm 86K9633-1KK20	I	:
900 mm 8GK9633-1KK20	L	:
	L	
Holders for horizontal cable ducts / horizontal busbars (pair)		
Width Article No.		
600 mm 8GF9652		
900 mm 8GF9653	•	•
Horizontal crossbars with steps (pair)		
Width Article No.		
600 mm 8GK9920-0KK35		
900 mm 8GK9920-0KK36	٠.	•
Mounting rail pair		
 ALPHA 630 UNIVERSAL vertical/horizontal busbar support, with steps Vertical side terminal strip (not suitable for use in ALPHA 800 UNIVERSAL) 		
Height Article No.		
1000 mm 8GF9655		
1200 mm 8GF9656		
1600 mm 8GF9650		
1800 mm 8GF9658		
2000 mm 8GF9654		
Inner supports		
For using cubicle B 300 as a switchgear compartment in ALPHA 630 UNIVERSAL (not suitable for use in ALPHA 800 UNIVERSAL)		
Height Article No.		
1600 mm 8GK9126-8KK03		
1800 mm 8GK9126-8KK04		
2000 mm 8GK9126-8KK05	•	•

Accessories

/lodular mou	plates and inner					125	630	800
		IIVERSAL: for mountin	g on side supports or o	n the base of the cal	oinet			
	Height	Width			Article No.			
a	200 mm	600 mm			8GF7155			
		900 mm			8GF7158			
	400 mm	600 mm			8GF7156			
		900 mm			8GF7160			
	600 mm	600 mm			8GF7157			
		900 mm			8GF7161			
ecessed mod	dular mounting plates							
			g on two rear supports	or on the rear panel				
		with one rear support						
	Height	Width			Article No.			
ı	200 mm	600 mm			8GF9676			
4		900 mm			8GF9680			
	400 mm	600 mm			8GF9677		-	
		900 mm			8GF9681			
	600 mm	600 mm			8GF9678	-	-	-
		900 mm			8GF9682			
mm mounti	ng plates for electrote	chnical use with he	ight and width of th	e cabinet				
			re not as high as the ca	abinet can be mount	ed			
		ports and holders 8GF	9652/3					
	Height	Width			Article No.			
î	600 mm	600 mm			8GK9535-4KK21	•	•	-
	800 mm	600 mm			8GK9535-5KK21		-	
	1000 mm	600 mm			8GK9536-7KK21		•	
		900 mm			8GK9536-7KK31		-	
	1200 mm	600 mm			8GK9537-8KK21		•	
		900 mm			8GK9537-8KK31		•	-
	1600 mm	600 mm			8GK9535-8KK23		-	
		900 mm			8GK9535-8KK26		-	
	1800 mm	600 mm			8GK9535-8KK24		-	
		900 mm			8GK9535-8KK34		-	
	2000 mm	600 mm			8GK9535-8KK25		-	
		900 mm			8GK9535-8KK35			
djustable de	epth brackets for mour	nting plates						
	Distribution boa	rd			Article No.			
	depth				0.01/0.000 0.1/1/0.0			
200	250 mm				8GK9930-0KK03		-	
4								
9000	A							
artitions for	ALPHA 630 UNIVERSA	L						
	Mounting		Height	Width	Article No.			
1	Horizontal		-	250 mm	8GK9525-0KK03			
			-	300 mm	8GK9525-0KK13		-	
			-	600 mm	8GK9525-0KK23		-	
			-	900 mm	8GK9525-0KK33			
	Vertical		800 mm		OCKUESE EKKUS		_	
	vertical			_	8GK9525-5KK03		-	
			1000 mm	-	8GK9525-6KK03		-	
			1200 mm	-	8GK9525-7KK03		•	
			1600 mm	-	8GK9525-8KK03			
			1800 mm	-	8GK9525-8KK13		-	
			2000 mm	-	8GK9525-8KK23			

Mounting pla	tes and inner subdivisions				125	630	800
Partitions for ALPH	AA 800 UNIVERSAL incabinets in form 2b						
	Mounting	Height	Width	Article No.			
	Horizontal subdivisions between devices	_	300 mm	8GK9526-0KK06			
		-	600 mm	8GK9526-0KK07			
		-	900 mm	8GK9526-0KK08			•
	Horizontal subdivisions between upper busbar compartment and devices	-	250 mm	8GK9527-0KK05			-
		-	300 mm	8GK9526-0KK03			-
		-	600 mm	8GK9526-0KK04			-
		-	900 mm	8GK9526-0KK05			
API	Vertical subdivisions between	1600 mm	600 mm	8GK9526-0KK00			-
	the switchgear compartment and busbar	1800 mm	600 mm	8GK9526-0KK01			
	compartment	2000 mm	600 mm	8GK9526-0KK02			•
Transparent cover	'S						
	Width			Article No.			
	250 mm			8GK9527-0KK03		-	-
	300 mm			8GK9527-0KK00			
1 3 3	600 mm			8GK9527-0KK01		•	-
.8	900 mm			8GK9527-0KK02	•	•	•

Accessories

	erminal strips and locking systeing rails for terminal blocks	1113			125	630	80
dard mounti	Version	Hoight	Width	Article No.			
2	Horizontal	Height	600 mm	8GF9672			
	Horizontal	-	900 mm	8GF9674		-	
	Horizontal, recessed		600 mm	8GF9673	-		
	Horizontal, recessed	-	900 mm	8GF9675		•	
	Vertical with 2 mounting rails	200 mm	600 mm	8GF7175		-	
	Vertical with 3 mounting rails	400 mm	600 mm	8GF7175			
	Vertical with E-mounting rails	400 11111					
	Vertical with 5 mounting rails	400 mm	900 mm	8GF7178	-	-	
or for vertic	al terminal string in side compartment L = 0		900 mm	8GF7180	_	-	
er for vertica	 al terminal strips in side compartment L = 9 ALPHA 800 UNIVERSAL: Each holder mus 		latoral crossbar				
	ALPHA 800 UNIVERSAL: Each floider flus	t be mounted onto a i		Autiala Na			
1			Width	Article No.	_	_	
A			600/900 mm	8GF9683	•	•	
nting bracke	ets			_			
, IT	Version		Width	Article No.			
S 14 M 5	For angular mounting of the terminal blocks	S	600/900 mm	8WA746	•	•	
ers for stanc	lard mounting rails						
	Version	Scope of supply	Width	Article No.			
	For mounting the terminal strip vertically in the cabling compartment	4 units	600/900 mm	8GK9920-0KK28	•	•	
dard locking	devices for wall-mounted distribution boa	ards					
<u> </u>	Material		Width	Article No.			
	Made of plastic, black (spare part)		600/900 mm	8GK9560-0KK04	•	•	ı
s for standar	d locking devices			_			
	Degree of protection		Width	Article No.			
	IP55		600/900 mm	8GK9560-0KK05	•	•	
ů	cking mechanism			_			
rv handle lo	ciking meenamom		alay inaayt naasibla		_		Т
ry handle lo	 For wall-mounted distribution boards, IP² for E012 	13 and IP55, semicylir	ider insert possible				
ry handle lo		13 and IP55, semicylir	Width	Article No.			
ry handle lo		43 and IP55, semicylir		Article No. 8GK9560-0KK06			
ry handle loo	for E012 ders E012	43 and IP55, semicylir	Width		ż	·	
	for E012	43 and IP55, semicylir	Width		·	•	
	for E012 ders E012	43 and IP55, semicylir	Width		Ē	Ξ	
	for E012 ders E012	43 and IP55, semicylir	Width 600/900 mm	8GK9560-0KK06	•	-	
le semicylin	for E012 ders E012	43 and IP55, semicylir	Width 600/900 mm	8GK9560-0KK06 Article No.	•	•	
le semicylin	for E012 ders E012 Insert and key	43 and IP55, semicylir	Width 600/900 mm	8GK9560-0KK06 Article No.	•	•	
le semicylin	for E012 ders E012 Insert and key for floor-mounted distribution boards		Width 600/900 mm Width 600/900 mm	8GK9560-0KK06 Article No. 8GK9560-0KK07	•	•	
le semicylin	for E012 ders E012 Insert and key for floor-mounted distribution boards Version		Width 600/900 mm Width 600/900 mm	Article No. Article No. Article No.	•	•	

embly <u>kit for</u>	mounting flat pack cabinets for self-assembly, IP43				
	Height	Article No.			
	400 mm	8GK9126-3KK00			- 1
	600 mm	8GK9126-4KK00			1
	800 mm	8GK9126-5KK00			- 1
	1000 mm	8GK9126-6KK00			
	1200 mm	8GK9126-7KK00			
	1600 mm	8GK9126-8KK00			
	1800 mm	8GK9126-8KK01			
	2000 mm	8GK9126-8KK02			
aped crossba	ar for lifting the flat pack for self-assembly				
	Height	Article No.			
	600 mm	8GK9127-0KK01			
	900 mm	8GK9127-0KK02			
	1200 mm	8GK9127-0KK03			
	1500 mm	8GK9127-0KK04			
	1800 mm	8GK9127-0KK05			
aped crossba	ar for mounting and vertical linking of wall-mounted dist				
	Height	Article No.			
	1200 mm	8GK9920-0KK43			
	1400 mm	8GK9920-0KK44			
	1600 mm	8GK9920-0KK45			
	1800 mm	8GK9920-0KK46			
1			_		
ige plates for	flat pack delivery (optional)	4 2 1 3			
	Height	Article No.			
	300 mm	8GK9120-0KK10	-	•	
	600 mm	8GK9120-0KK20	-	•	
tilation grille	es – side panels				
j	Scope of supply	Article No.			
1	4 units	8GK9120-0KK30			
lacement hin	ges for doors for wall/floor-mounted distribution boards				
	Scope of supply	Article No.			
	2 units	8GK9920-0KK24			
ges for front					
	Scope of supply	Article No.			
	10 units	8GK9120-0KK11	-	-	
ges for cover	s				
		Article No.			
		8PQ2000-0BA08			
4					

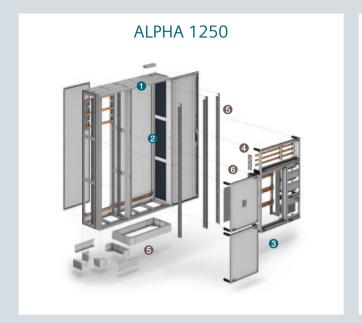
Accessories

Further acc			125	630	800
Quick-lock scre	ws for ALPHA cabinets with ¼ turn				
	Scope of supply	Article No.		_	
₹ ₹ ₹	20 units	8GK9562-0KK00	•	•	•
Mounting kit fo	or modular distribution boards, IP55 (incl. seal)				
		Article No.			
		8GK9920-0KK31			
Self-tapping sci	rews M6 × 10				
	Scope of supply	Article No.			
0620	10 units	8GF9662			
TO THE					
Captive nuts M	6				
	Scope of supply	Article No.			
	100 units	8GF9643	_		
Transport eyeb					
	Scope of supply	Article No.			
	4 units	8GF9660			
9 4 C	· dinto	56. 3686	_	_	_
Q ·					
ý					
Key for double-	bit interlocking mechanism				
		Article No.			
<u>R</u>		8GD9290			-
1960					
ach!					
'SIEMENS" logo					
5. <u>5</u>	Versions	Article No.			
	Self-adhesive	8GF9661			
SIEMENS	Made of self-adhesive aluminum	8GD9084			
		555755			
Circuit diagram					
	Versions Depth	Article No.			
	DIN A3, made of sheet steel 10 mm	8GK9910-0KK22			-
	DIN A4, transparent sleeve, adhered all-over 10 mm	8GK9910-0KK23		•	-
	DIN A4, made of plastic 30 mm	8GD9132		•	•
	DIN A4, large pack, made of plastic 30 mm	8GK9910-1KK24		•	-
lanking cover	for modular installation devices				
Sidilking cover	Version	Article No.			
	F== 12 dul=====idd== (1 NAM 10==)	8GK9910-0KK00	-		
	101 12 modalar widths (1 liviv - 10 min)	OGROS 10-ORROO			
Cover strips					
	Length	Article No.			
	1 m	8GK9910-0KK01			
pare brackets	for flat pack assembly				
	Scope of supply	Article No.			
	2 units	8GK9920-0KK26			

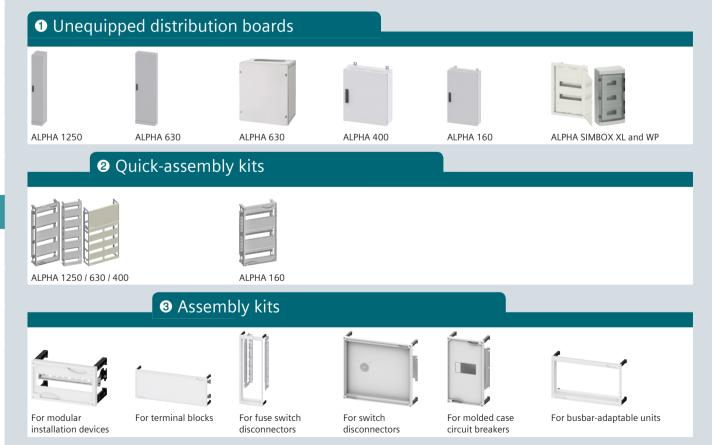
Further acces	125	630	800		
Failsafe kit ALPHA					
	Thread-forming tapping screws, captive nuts, hinges for covers, covers etc.				
		Article No.			
		8GK9920-0KK32	-		-
Wall-mounting bra	ackets				
		Article No.			
		8GK9920-0KK33			

ALPHA system overview

Distribution boards, assembly kits and accessories

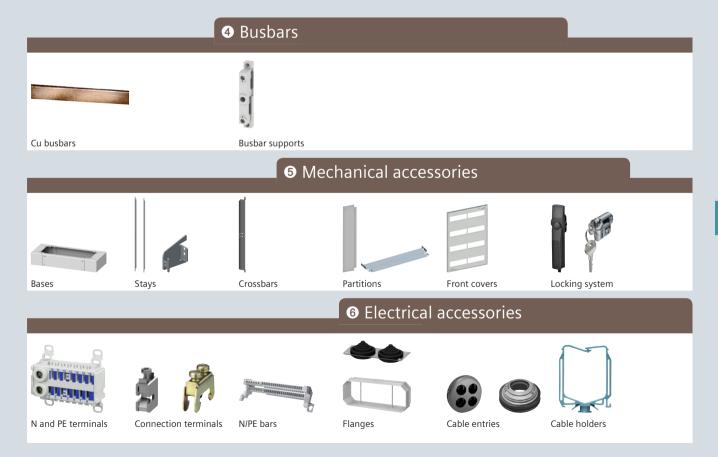












ALPHA 1250 floor-mounted distribution boards

Rated current 1250 A



Height		Depth	Tiers	Width		Safety class I	Safety class I	Safety class I
outside	inside	outside	(MW = 18 mm)	outside	inside			
1950 mm	1800 mm	400 mm	max. 12 MW	300 mm	250 mm	8GK1423-8KK15	8GK1483-8KP15	8GK1483-8KN15
				550 mm	500 mm	8GK1423-8KK25	8GK1483-8KP25	8GK1483-8KN25
			800 mm	800 mm	750 mm	8GK1423-8KK35	8GK1483-8KP35	8GK1483-8KN35
				1050 mm	1000 mm	8GK1423-8KK45	8GK1483-8KP45	8GK1483-8KN45
				1300 mm	1250 mm	8GK1423-8KK55	_	_

Accessories

Replacement doo	rs				
4	Height	Cubicle width	Door version	Door width	Article No.
	1950 mm	300 mm	Complete	300 mm	8GK9513-8KK10
II.		550 mm	Complete	550 mm	8GK9513-8KK20
		800 mm	Left	525 mm	8GK9513-8KK30
			Right	275 mm	8GK9513-8KK40
		1050 mm	Left	525 mm	8GK9513-8KK30
			Right	525 mm	8GK9513-8KK50
		1300 mm	Left	775 mm	8GK9513-8KK60
			Right	525 mm	8GK9513-8KK50
Cide nearly made	describeration in a condi-				

Side panels, modular distribution board

 Depth
 Article No.

 400 mm
 8GK9520-0KK05

Assembly kits for masking frame for front cover

 For mounting the mour 	nting stays at the rear of the modular distribution board	
Height	Width	Article No.
1800 mm	250 mm	8GK9913-0KK10
	500 mm	8GK9913-0KK20
	750 mm	8GK9913-0KK30
	1000 mm	8GK9913-0KK40
	1250 mm	8GK9913-0KK50

Flange plates with rubber sleeve



For lower flange opening (sheet steel closed)

Number of rubber sleeves	Article No.
1	8GK9100-0KK14
2	8GK9100-0KK15
3	8GK9100-0KK16
4	8GK9100-0KK17

Busbar supports			
	Busbar spacing 10	00/185 mm	
i i	Version		Article No.
	With matching suppo	ort plate for mounting on the rear panel	8GK9720-0KK00
	Without support plat	e for mounting on the busbar (no fixing to the cabinet enclosure)	8GK9720-0KK01
PEN bar holders and N	/PE busbar supports		
	Version		Article No.
	PEN bar holder		8GK9721-0KK00
	N/PE busbar supports	S	8GK9110-0KK00
Pin insulator for N bus	bar		
	Version		Article No.
	1P with M10 female	thread and holder	8GK9110-0KK00
1202_01401			
Cross arm for N/PEN pi	n insulators and/or ho	olders for PEN bars	
	Width		Article No.
<u></u>	250 mm		8GK4854-0KK10
	500 mm		8GK4854-0KK20
	750 mm		8GK4854-0KK30
	1000 mm		8GK4854-0KK40
	1250 mm		8GK4854-0KK50
Longitudinal stays			
	Height	Depth	Article No.
	1800 mm	250/320/400 mm	8GK48538KK02

ALPHA 1250 marshaling boxes

Rated current 630 A



Height	Depth	Width		Safety class I
outside	outside	outside	inside	
500 mm	400 mm	300 mm	250 mm	8GK1383-1KK15
		550 mm	500 mm	8GK1383-1KK25
		800 mm	750 mm	8GK1383-1KK35
		1050 mm	1000 mm	8GK1383-1KK45
		1300 mm	1250 mm	8GK1383-1KK55
650 mm	400 mm	300 mm	250 mm	8GK1383-2KK15
		550 mm	500 mm	8GK1383-2KK25
		800 mm	750 mm	8GK1383-2KK35
		1050 mm	1000 mm	8GK1383-2KK45
		1300 mm	1250 mm	8GK1383-2KK55

ALPHA 630 floor-mounted

distribution boards

Rated current 630 A

Unequipped distribution boards Welded and riveted

Degree of protection IP43



Height		Depth	Tiers/MW	Width		Safety class I	Safety class II	
outside	inside	outside		outside	inside			
1950 mm	1800 mm	210 mm	12/144	300 mm	250 mm	8GK1322-8KA12	8GK1332-8KA12	
			24/288	550 mm	500 mm	8GK1322-8KA22	8GK1332-8KA22	
			36/432	800 mm	750 mm	8GK1322-8KA32	8GK1332-8KA32	
			48/576	1050 mm	1000 mm	8GK1322-8KA42	8GK1332-8KA42	
			60/720	1300 mm	1250 mm	8GK1322-8KA52	8GK1332-8KA52	
		250 mm	12/144	300 mm	250 mm	-	-	
			24/288	550 mm	500 mm	-	-	
			36/432	800 mm	750 mm	-	-	
			48/576	1050 mm	1000 mm	-	-	
			60/720	1300 mm	1250 mm	_	-	
		320 mm	12/144	300 mm	250 mm	-	-	
			24/288	550 mm	500 mm	-	-	
			36/432	800 mm	750 mm	-	-	
			48/576	1050 mm	1000 mm	-	-	
			60/720	1300 mm	1250 mm	-	-	

Accessories

Replacement doors					
	Height	Cubicle width	Door version	Door width	Article No.
	1950 mm	300 mm	Complete	300 mm	8GK9513-8KK10
1		550 mm	Complete	550 mm	8GK9513-8KK20
		800 mm	Left	525 mm	8GK9513-8KK30
			Right	275 mm	8GK9513-8KK40
		1050 mm	Left	525 mm	8GK9513-8KK30
			Right	525 mm	8GK9513-8KK50
		1300 mm	Left	775 mm	8GK9513-8KK60
			Right	525 mm	8GK9513-8KK50
Side panels, modular d	listribution board				
	Depth				Article No.
	250/320 mm				8GK9520-0KK03

Assembly kits for	Assembly kits for masking frame for front cover						
	Height	Width	Article No.				
	1800 mm	250 mm	8GK9913-0KK10				
		500 mm	8GK9913-0KK20				
		750 mm	8GK9913-0KK30				
		1000 mm	8GK9913-0KK40				
		1250 mm	8GK9913-0KK50				



Safety class I	Safety class II	Safety class I	Safety class I	Safety class II
-	-	-	8GK1302-8KK12	8GK1312-8KK12
-	-	_	8GK1302-8KK22	8GK1312-8KK22
-	-	_	8GK1302-8KK32	8GK1312-8KK32
-	-	-	8GK1302-8KK42	8GK1312-8KK42
-	-	_	8GK1302-8KK52	8GK1312-8KK52
8GK1323-8KN13	8GK1333-8KN13	8GK1323-8KP13	-	-
8GK1323-8KN23	8GK1333-8KN23	8GK1323-8KP23	-	-
8GK1323-8KN33	8GK1333-8KN33	8GK1323-8KP33	-	-
8GK1323-8KN43	8GK1333-8KN43	8GK1323-8KP43	-	-
8GK1323-8KN53	8GK1333-8KN53	8GK1323-8KP53	-	-
8GK1323-8KN14	8GK1333-8KN14	8GK1323-8KP14	-	-
8GK1323-8KN24	8GK1333-8KN24	8GK1323-8KP24	-	-
8GK1323-8KN34	8GK1333-8KN34	8GK1323-8KP34	-	-
8GK1323-8KN44	8GK1333-8KN44	8GK1323-8KP44	-	-
8GK1323-8KN54	8GK1333-8KN54	8GK1323-8KP54	-	-

ALPHA 630 marshaling boxes

Rated current 630 A



				V	V
Height	Depth	Width		Safety class I	Safety class I
outside	outside	outside	inside		
350 mm	210 mm ¹⁾	300 mm	250 mm	8GK1382-0KK12	-
		550 mm	500 mm	8GK1382-0KK22	-
		800 mm	750 mm	8GK1382-0KK32	-
		1050 mm	1000 mm	8GK1382-0KK42	-
		1300 mm	1250 mm	8GK1382-0KK52	-
	250 mm	300 mm	250 mm	-	8GK1383-0KK13
		550 mm	500 mm	-	8GK1383-0KK23
		800 mm	750 mm	-	8GK1383-0KK33
		1050 mm	1000 mm	-	8GK1383-0KK43
		1300 mm	1250 mm	-	8GK1383-0KK53
	320 mm	300 mm	250 mm	-	8GK1383-0KK14
		550 mm	500 mm	-	8GK1383-0KK24
		800 mm	750 mm	-	8GK1383-0KK34
		1050 mm	1000 mm	-	8GK1383-0KK44
		1300 mm	1250 mm	-	8GK1383-0KK54
400 mm	250 mm	300 mm	250 mm	-	8GK1383-1KK13
		550 mm	500 mm	-	8GK1383-1KK23
		800 mm	750 mm	-	8GK1383-1KK33
		1050 mm	1000 mm	-	8GK1383-1KK43
		1300 mm	1250 mm	-	8GK1383-1KK53
	320 mm	300 mm	250 mm	-	8GK1383-1KK14
		550 mm	500 mm	-	8GK1383-1KK24
		800 mm	750 mm	-	8GK1383-1KK34
		1050 mm	1000 mm	-	8GK1383-1KK44
		1300 mm	1250 mm	_	8GK1383-1KK54
600 mm	250 mm	300 mm	250 mm	-	8GK1383-2KK13
		550 mm	500 mm	-	8GK1383-2KK23
		800 mm	750 mm	-	8GK1383-2KK33
		1050 mm	1000 mm	-	8GK1383-2KK43
		1300 mm	1250 mm	-	8GK1383-2KK53
	320 mm	300 mm	250 mm	-	8GK1383-2KK14
		550 mm	500 mm	-	8GK1383-2KK24
		800 mm	750 mm	-	8GK1383-2KK34
		1050 mm	1000 mm	-	8GK1383-2KK44
		1300 mm	1250 mm	-	8GK1383-2KK54

¹⁾ For flat pack floor-mounted distribution boards only

ALPHA 400 distribution boards

Rated current 400 A

Surface-mounting distribution boards
Flat pack

Degree of protection IP43



Height		Depth	Tiers	Width		Safety class I	Safety class II	
outside	inside	outside	(MW = 18 mm)	outside	inside			
500 mm	450 mm	210 mm	12 + 1 MW	300 mm	250 mm	-	-	
			mountable	550 mm	500 mm	-	-	
650 mm	600 mm	210 mm	12 + 1 MW	300 mm	250 mm	8GK1102-2KK12	8GK1112-2KK12	
			mountable	550 mm	500 mm	8GK1102-2KK22	8GK1112-2KK22	
				800 mm	750 mm	8GK1102-2KK32	8GK1112-2KK32	
				1050 mm	1000 mm	8GK1102-2KK42	8GK1112-2KK42	
800 mm	750 mm	210 mm	12 + 1 MW	300 mm	250 mm	8GK1102-3KK12	8GK1112-3KK12	
			mountable	550 mm	500 mm	8GK1102-3KK22	8GK1112-3KK22	
				800 mm	750 mm	8GK1102-3KK32	8GK1112-3KK32	
				1050 mm	1000 mm	8GK1102-3KK42	8GK1112-3KK42	
950 mm	900 mm	210 mm	12 + 1 MW	300 mm	250 mm	8GK1102-4KK12	8GK1112-4KK12	
			mountable	550 mm	500 mm	8GK1102-4KK22	8GK1112-4KK22	
				800 mm	750 mm	8GK1102-4KK32	8GK1112-4KK32	
				1050 mm	1000 mm	8GK1102-4KK42	8GK1112-4KK42	
				1300 mm	1250 mm	8GK1102-4KK52	8GK1112-4KK52	
1100 mm	1050 mm	210 mm	12 + 1 MW	300 mm	250 mm	8GK1102-5KK12	8GK1112-5KK12	
			mountable	550 mm	500 mm	8GK1102-5KK22	8GK1112-5KK22	
				800 mm	750 mm	8GK1102-5KK32	8GK1112-5KK32	
				1050 mm	1000 mm	8GK1102-5KK42	8GK1112-5KK42	
				1300 mm	1250 mm	8GK1102-5KK52	8GK1112-5KK52	
1250 mm	1200 mm	210 mm	12 + 1 MW	300 mm	250 mm	8GK1102-6KK12	8GK1112-6KK12	
			mountable	550 mm	500 mm	8GK1102-6KK22	8GK1112-6KK22	
				800 mm	750 mm	8GK1102-6KK32	8GK1112-6KK32	
				1050 mm	1000 mm	8GK1102-6KK42	8GK1112-6KK42	
				1300 mm	1250 mm	8GK1102-6KK52	8GK1112-6KK52	
1400 mm	1350 mm	210 mm	12 + 1 MW	300 mm	250 mm	8GK1102-7KK12	8GK1112-7KK12	
			mountable	550 mm	500 mm	8GK1102-7KK22	8GK1112-7KK22	
				800 mm	750 mm	8GK1102-7KK32	8GK1112-7KK32	
				1050 mm	1000 mm	8GK1102-7KK42	8GK1112-7KK42	
				1300 mm	1250 mm	8GK1102-7KK52	8GK1112-7KK52	



ALPHA 400 distribution boards

Rated current 400 A

Accessories



Height	Cubicle width	Door version	Door width	Article No.
950 mm	300 mm	Complete	300 mm	8GK9510-6KK10
	550 mm	Complete	550 mm	8GK9510-6KK20
	800 mm	Left	525 mm	8GK9510-6KK31
		Right	275 mm	8GK9510-6KK42
	1050 mm	Left	525 mm	8GK9510-6KK31
		Right	525 mm	8GK9510-6KK52
	1300 mm	Left	775 mm	8GK9510-6KK51
		Right	525 mm	8GK9510-6KK52
1100 mm	300 mm	Complete	300 mm	8GK9510-7KK10
	550 mm	Complete	550 mm	8GK9510-7KK20
	800 mm	Left	525 mm	8GK9510-7KK31
		Right	275 mm	8GK9510-7KK32
	1050 mm	Left	525 mm	8GK9510-7KK31
		Right	525 mm	8GK9510-7KK42
	1300 mm	Left	775 mm	8GK9510-7KK41
		Right	525 mm	8GK9510-7KK42
1250 mm	300 mm	Complete	300 mm	8GK9510-8KK10
	550 mm	Complete	550 mm	8GK9510-8KK20
	800 mm	Left	525 mm	8GK9510-8KK31
		Right	275 mm	8GK9510-8KK32
	1050 mm	Left	525 mm	8GK9510-8KK31
		Right	525 mm	8GK9510-8KK52
	1300 mm	Left	775 mm	8GK9510-8KK41
		Right	525 mm	8GK9510-8KK52
400 mm	300 mm	Complete	300 mm	8GK9510-8KK16
	550 mm	Complete	550 mm	8GK9510-8KK26
	800 mm	Left	525 mm	8GK9510-8KK37
		Right	275 mm	8GK9510-8KK38
	1050 mm	Left	525 mm	8GK9510-8KK37
		Right	525 mm	8GK9510-8KK58
	1300 mm	Left	775 mm	8GK9510-8KK47
		Right	525 mm	8GK9510-8KK58

ALPHA 160 distribution boards

Rated current 160 A



Height		Depth	Tiers	Width		Safety class II	Safety class II	Safety class II
outside	inside	outside	(MW = 18 mm)	outside	inside			
500 mm	450 mm	140 mm	12 + 1 MW	300 mm	250 mm	8GK1032-1KK11	8GK1052-1KK11	8GK1031-1KK11
			mountable	550 mm	500 mm	8GK1032-1KK21	8GK1052-1KK21	8GK1031-1KK21
				800 mm	750 mm	8GK1032-1KK31	8GK1052-1KK31	-
650 mm	600 mm	140 mm	12 + 1 MW	300 mm	250 mm	8GK1032-2KK11	8GK1052-2KK11	8GK1031-2KK11
			mountable	550 mm	500 mm	8GK1032-2KK21	8GK1052-2KK21	8GK1031-2KK21
				800 mm	750 mm	8GK1032-2KK31	8GK1052-2KK31	-
				1050 mm	1000 mm	8GK1032-2KK41	8GK1052-2KK41	-
800 mm	750 mm	140 mm	12 + 1 MW	300 mm	250 mm	8GK1032-3KK11	8GK1052-3KK11	8GK1031-3KK11
			mountable	550 mm	500 mm	8GK1032-3KK21	8GK1052-3KK21	8GK1031-3KK21
				800 mm	750 mm	8GK1032-3KK31	8GK1052-3KK31	-
				1050 mm	1000 mm	8GK1032-3KK41	8GK1052-3KK41	-
950 mm	900 mm	140 mm	12 + 1 MW	300 mm	250 mm	8GK1032-4KK11	8GK1052-4KK11	8GK1031-4KK11
			mountable	550 mm	500 mm	8GK1032-4KK21	8GK1052-4KK21	8GK1031-4KK21
				800 mm	750 mm	8GK1032-4KK31	8GK1052-4KK31	-
				1050 mm	1000 mm	8GK1032-4KK41	8GK1052-4KK41	-
1100 mm	1050 mm	140 mm	12 + 1 MW	300 mm	250 mm	8GK1032-5KK11	8GK1052-5KK11	8GK1031-5KK11
			mountable	550 mm	500 mm	8GK1032-5KK21	8GK1052-5KK21	8GK1031-5KK21
				800 mm	750 mm	8GK1032-5KK31	8GK1052-5KK31	-
				1050 mm	1000 mm	8GK1032-5KK41	8GK1052-5KK41	_

For modular installation devices



8GK4351-4KK32

For terminal blocks

750 mm

144



With mounting plates



Height	Width	Mounting pla	ates	Version		
outside	outside	Height	Width			
300 mm	250 mm	245 mm	207.5 mm	Closed	8GK4451-2KK12	8GK4451-2KK11
	500 mm	245 mm	457.5 mm	Closed	8GK4451-2KK22	-
	750 mm	245 mm	707.5 mm	Closed	8GK4451-2KK32	-
450 mm	250 mm	395 mm	207.5 mm	Closed	8GK4451-3KK12	8GK4451-3KK11
	500 mm	395 mm	457.5 mm	Closed	8GK4451-3KK22	-
	750 mm	395 mm	707.5 mm	Closed	8GK4451-3KK32	-
600 mm	250 mm	545 mm	207.5 mm	Closed	8GK4451-4KK12	8GK4451-4KK11
	500 mm	545 mm	457.5 mm	Closed	8GK4451-4KK22	-
	750 mm	545 mm	707.5 mm	Closed	8GK4451-4KK32	-

For unequipped panels



Height outside	Width outside	Standard	With inspection window	With deep-drawn cover 40 mm	Standard
75 mm	250 mm	8GK4501-0KK12	-	-	-
	500 mm	8GK4501-0KK22	-	-	-
150 mm	250 mm	8GK4501-1KK12	-	-	8GK4501-1KK11
	500 mm	8GK4501-1KK22	-	-	8GK4501-1KK21
	750 mm	8GK4501-1KK32	-	-	-
300 mm	250 mm	8GK4501-2KK12	8GK4500-2KK12	8GK4501-2KK13	8GK4501-2KK11
	500 mm	8GK4501-2KK22	8GK4500-2KK22	8GK4501-2KK23	8GK4501-2KK21
	750 mm	8GK4501-2KK32	-	8GK4501-2KK33	-
450 mm	250 mm	8GK4501-3KK12	8GK4500-3KK12	8GK4501-3KK13	8GK4501-3KK11
	500 mm	8GK4501-3KK22	8GK4500-3KK22	8GK4501-3KK23	8GK4501-3KK21
	750 mm	8GK4501-3KK32	-	8GK4501-3KK33	-
600 mm	250 mm	8GK4501-4KK12	8GK4500-4KK12	-	8GK4501-4KK11
	500 mm	8GK4501-4KK22	8GK4500-4KK22	-	8GK4501-4KK21
	750 mm	8GK4501-4KK32	-	-	-
750 mm	250 mm	8GK4501-5KK12	-	-	-
	500 mm	8GK4501-5KK22	-	-	-
	750 mm	8GK4501-5KK32	_	-	-

For 3NP1 fuse switch disconnectors



Size of the LV HRC	No. of switching devices	Height	Width	Mounting	
fuse		outside	outside	on support plate	on busbars 1)
00/000	2	300 mm	250 mm	8GK4550-2KK12	8GK4650-2KK12
		450 mm	250 mm	-	8GK4650-3KK12
	4	300 mm	500 mm	8GK4550-2KK22	8GK4650-2KK22
		450 mm	500 mm	-	8GK4650-3KK22
1	1	450 mm	250 mm	8GK4550-3KK12	8GK4651-3KK12
	2	450 mm	500 mm	8GK4550-3KK22	8GK4651-3KK22
2	1	450 mm	250 mm	8GK4551-3KK12	8GK4652-3KK12
3	1	450 mm	500 mm	8GK4551-3KK22	-

¹⁾ For busbar support 8GK9711-0KK03

Accessories

Cover 3NP1123	. size 000								
	Required for size 000 fuse switch di	Required for size 000 fuse switch disconnectors							
			Article No.						
			8GK9912-0KK00						
Busbar supports									
	Busbar center-to-center spacing	Number of poles	Article No.						
R R R R R	60 mm	1-pole	8GK9710-0KK00						
		2-pole	8GK9710-0KK01						
5.1		3-pole	8GK9711-0KK03						
		4-pole	8GK9670-0KK00						
	40 mm	5-pole	8GK9650-0KK00						

15

For 3NJ4 fuse switch disconnectors in in-line design



Size	Number of 3NJ4 disc With screw fixing	connectors With fixing claws	Height outside	Width outside		Distribution board depth min. 320 mm
Assembly kits for 3	3NJ4 fuse switch discon	nectors				
NH00	4	3	600 mm	250 mm	8GK4751-4KK13	-
	9	8	600 mm	500 mm	8GK4751-4KK23	-
	14	13	600 mm	750 mm	8GK4751-4KK33	-
NH1 NH3	2	-	750 mm	250 mm	-	8GK4752-5KK15
	4	3	750 mm	500 mm	-	8GK4752-5KK25
	7	6	750 mm	750 mm	-	8GK4752-5KK35

Accessories

Blanking covers						
•	Switching device size	Busbar center-to-center spacing	Height	Width	Article No.	
	NH00	100 mm	299 mm	50 mm	3NJ4912-2CA00	
	NH1 NH3	185 mm	699 mm		3NJ4912-2AA00	
				100 mm	3NJ4912-2BA00	
Ready-to-install	copper bars					
	Switching device size	Distribution board width outside			Article No.	
	NH00	250 mm			8GK9735-1KK10	
		500 mm	8GK9735-1KK20			
0.0		750 mm			8GK9735-1KK30	
	NH1 NH3	250 mm	250 mm			
		500 mm			8GK9735-2KK20	
		750 mm	8GK9735-2KK30			

For SR60 busbar-adaptable units



Height	Width	
outside	outside	
300 mm	250 mm	8GK4801-2KK13
	500 mm	8GK4801-2KK23
	750 mm	8GK4801-2KK33
450 mm	250 mm	8GK4801-3KK13
	500 mm	8GK4801-3KK23
	750 mm	8GK4801-3KK33

Accessories



For bus-mounting fuse bases, for mounting on busbar systems



Height	Width	Number of poles			
outside	outside	3P	4P		
300 mm	250 mm		-	8GK4801-2KK12	-
				-	8GK4800-2KK12
	500 mm			-	8GK4800-2KK22
	750 mm			_	8GK4800-2KK32
450 mm	250 mm	•	-	8GK4801-3KK12	-

For 3KF switch disconnectors with fuses



_	Rated current	Number of	poles	Height	Width	Depth		
device size		3P	4P	outside	outside	outside		
3KF1	80 A	•	•	300 mm	250 mm	≥210 mm	8GK4722-2KK10	-
3KF2	160 A		•	300 mm	500 mm	≥210 mm	8GK4723-2KK10	-
3KF33KF4	400 A		•	300 mm	500 mm	≥320 mm	-	8GK4722-2KK20

For 3VT switch disconnectors



Switching	No. of switching	Number	of poles	Height	Width	
device size	devices	3P	4P	outside	outside	
3VT1	2			300 mm	250 mm	8GK4710-2KK10
3VT2	1			450 mm	250 mm	8GK4710-3KK10
3VT3	1			600 mm	250 mm	8GK4710-4KK10

For 3KD switch disconnectors

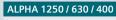


Switching	er e	Number	of poles	Height	Width	Distribution		
device size	devices	3P	4P	outside	outside	board depth		
1	2		-	300 mm	250 mm	210 mm	8GK4720-2KK10	-
2	1	•		300 mm	250 mm	210 mm	8GK4720-2KK10	-
3	1	•		300 mm	250 mm	210 mm	8GK4721-2KK10	-
34	1	•		450 mm	500 mm	≥250 mm	-	8GK4720-3KK20

For 3KA switch disconnectors on support plate



For 3VL molded case circuit breakers





Switching	Switching	Height	Width	No. of switching	Number of poles		Standard
device size	device type	outside	outside	devices	3P	4P	
3VL1	3VL160X	300 mm	250 mm	1	•		8GK4701-2KK12
		450 mm	250 mm	1			8GK4701-3KK12
3VL2	3VL160	300 mm	250 mm	1	•	•	8GK4701-2KK12
		450 mm	250 mm	1			8GK4701-3KK12
3VL3	3VL250	450 mm	250 mm	1			8GK4701-3KK12
3VL4	3VL400	600 mm	250 mm	1			8GK4702-4KK12
		750 mm	250 mm	1		•	-
3VL5	3VL630	600 mm	250 mm	1	•	-	8GK4703-4KK13
			500 mm	1			8GK4704-4KK13
				1		=	-
				1	_	•	-
3VL6	3VL800	600 mm	250 mm	1	•	-	8GK4704-4KK15
			500 mm	1			8GK4704-4KK25
3VL7	3VL1250	600 mm	500 mm	1	•	•	8GK4705-4KK25
3VL8	3VL1600	600 mm	500 mm	1	•	•	8GK4705-4KK25



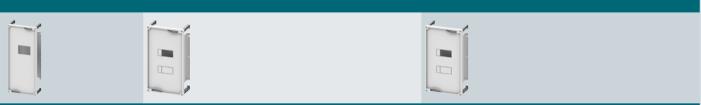
For 3VA molded case circuit breakers, 3-pole and 4-pole

ALPHA 1250 / 630 / 400



Switching device size	Height	Width	No. of switching				
	outside	outside	devices	Direct	Rotary	Motorized	
3VA10, 3VA11	300 mm ¹⁾	250 mm	1		_	_	8GK4731-2KK12
				-		-	8GK4733-2KK12
				-	-	•	-
		500 mm	3		_	-	8GK4731-2KK22
				-		-	8GK4733-2KK22
				-	-		-
	450 mm	250 mm	1	•	_	-	8GK4730-2KK12
				-	_		-
		500 mm	3		-	_	8GK4730-2KK22
				-	-		-
3VA12	300 mm	250 mm	1	•	_	_	8GK4732-2KK12
				-		-	8GK4735-2KK12
				-	-		-
		500 mm	3		_	_	8GK4732-2KK22
				-		_	8GK4735-2KK22
				-	-		-
	450 mm	250 mm	1		-	-	8GK4733-3KK10
				-	-		-
		500 mm	3		_	_	8GK4731-3KK20
	600 mm	250 mm	1	_	_		-
3VA20, 3VA22	300 mm	250 mm	1	•	_	_	8GK4730-3KK10
				-		-	8GK4736-2KK12
		500 mm	3		_	_	8GK4730-3KK20
				-		_	8GK4736-2KK22
	600 mm	250 mm	1	-	-		-
		500 mm	3	-	-		-
3VA23, 3VA24	450 mm	250 mm	1	•	_	_	8GK4730-4KK12
				-	_		-
		500 mm	1		-	_	8GK4730-4KK22
				-		-	8GK4733-4KK22
				-	-		_
	600 mm	250 mm	1	_	-		-
		500 mm	1	_	_		-

¹⁾ For insulated connection only ²⁾ Distribution board depth at least 250 mm ³⁾ Distribution board depth at least 320 mm



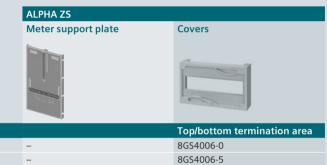
•			•	
	With RCD module		With RCD module	
	Infeed side	At side	Infeed side	At side
-	-	-	-	-
_	_	_	-	-
8GK4734-2KK12 ²⁾	_	-	-	-
-	_	-	-	-
_	_	_	-	-
8GK4734-2KK22 ²⁾	_	-	-	-
-	_	-	-	-
-	8GK4731-3KK12	8GK4731-3KK10	8GK4734-3KK12 ²⁾	-
_	_	_	-	-
_	8GK4731-3KK22	_	8GK4734-3KK22 ²⁾	-
-	-	-	-	-
-	_	-	-	-
8GK4735-3KK10 ²⁾	_	-	-	-
_	_	-	-	-
_	_	-	-	-
8GK4732-3KK20 ²⁾	_	_	-	-
-	_	-	-	-
-	_	-	-	8GK4733-4KK10 ²⁾
_	_	-	-	-
_	8GK4732-4KK10	-	8GK4736-4KK12	-
-	-	_	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	8GK4735-4KK12	-	-	-
-	8GK4735-4KK22	-	8GK4736-4KK22 ³⁾	-
-	-	-	-	-
8GK4734-4KK12 3)	-	-	-	-
-	-	-	-	-
-	-	-	-	-
8GK4734-4KK22 3)	-	-	-	-
-	8GK4731-4KK12	-	-	-
-	8GK4731-4KK22	-	-	-

For meter mounting without top and bottom termination area



Height	Width	
outside	outside	
450 mm	250 mm	8GE3713-4

For meter mounting with top and bottom termination area

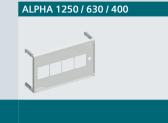


Height	Width		Top/bottom termination area
150 mm	250 mm	-	8GS4006-0
300 mm	250 mm	-	8GS4006-5
450 mm	250 mm	8GS4007-4	-

Accessories



Front covers for measuring devices



Height outside	Width outside	Cutout dimensions	Use	
outside	outside			
300 mm	500 mm	92 × 92 mm	1× measuring device 96 mm × 96 mm	8GK4500-2KK20

For cable connections to the door



Height	Width	Diameter	
150 mm	250 mm	M20	8GK4500-1KK12
	500 mm	M20	8GK4500-1KK22

Quick-assembly kits

For modular installation devices and terminal blocks

ALPHA 1250 / 630 / 400

Tier spacing 125 mm





Height	Width	No. of tiers		MW	With N/PE bar	With 2 N/PE bars	
outside	outside		Terminals				
For modular i	nstallation devices						
450 mm	250 mm	3	-	36	-	-	
600 mm	250 mm	4	-	48	8GK4001-4KK11	-	
	500 mm	8	_	96	8GK4001-4KK22	-	
750 mm	250 mm	5	-	60	8GK4001-5KK11	-	
	500 mm	10	-	120	8GK4001-5KK22	-	
900 mm	250 mm	6	-	72	8GK4001-6KK11	8GK4003-6KK11	
	500 mm	12	-	144	8GK4001-6KK22	-	
1050 mm	250 mm	7	-	84	8GK4001-7KK11	8GK4003-7KK11	
	500 mm	14	-	168	8GK4001-7KK22	-	
1200 mm	250 mm	8	-	96	8GK4001-8KK12	8GK4003-8KK12	
	500 mm	16	-	192	8GK4001-8KK22	-	
1350 mm	250 mm	9	-	108	8GK4002-8KK12	8GK4003-8KK13	
	500 mm	18	-	216	8GK4002-8KK22	-	
For modular ii	nstallation devices	and terminal blocks					
900 mm	250 mm	2	4	48	-	-	
	500 mm	4	8	96	_	_	
	750 mm	6	12	144	_	-	
1050 mm	250 mm	2	5	60	-	-	
	500 mm	4	10	120	_	-	
	750 mm	6	15	180	_	_	
1200 mm	250 mm	2	6	72	-	-	
	500 mm	4	12	144	_	-	
	750 mm	6	18	216	_	-	
1350 mm	250 mm	3	6	72	-	-	
	500 mm	6	12	144	-	-	
	750 mm	9	18	216	-	_	



Without N/PE bar	With N/PE bar	Without N/PE bar
	8GK4001-3KK11	8GK4051-3KK11
-	8GK4001-4KK11	8GK4051-4KK11
	-	
-	8GK4001-5KK11	8GK4051-5KK11
	-	-
8GK4051-6KK11	8GK4001-6KK11	8GK4051-6KK11
8GK4101-6KK22	-	-
8GK4051-7KK11	8GK4001-7KK11	8GK4051-7KK11
8GK4101-7KK22	-	-
8GK4101-8KK12	-	-
8GK4101-8KK22	-	-
8GK4102-8KK12	-	-
8GK4102-8KK22	-	-
8GK4100-6KK12	-	_
8GK4100-6KK22	-	-
8GK4100-6KK32	-	-
8GK4100-7KK12	-	-
8GK4100-7KK22	-	-
8GK4100-7KK32	-	-
8GK4100-8KK12	-	-
8GK4100-8KK22	-	-
8GK4100-8KK32	-	-
8GK4110-8KK12	-	-
8GK4110-8KK22	-	-
8GK4110-8KK32	-	-

Busbars

For ALPHA 1250 / 630 / 400 distribution boards

Cu busbars	_	_	_	_	
- Contraction	Cross-section	Current	Length		Article No.
	12 × 5 mm	250 A	250 mm		8GK9731-0KK10
			500 mm		8GK9731-0KK20
			750 mm		8GK9731-0KK30
			1000 mm		8GK9731-0KK40
			1250 mm		8GK9731-0KK50
	20 × 5 mm	320 A	250 mm		8GK9733-0KK10
			500 mm		8GK9733-0KK20
			750 mm		8GK9733-0KK30
			1000 mm		8GK9733-0KK40
			1250 mm		8GK9733-0KK50
	30 × 5 mm	450 A	250 mm		8GK9735-0KK10
			500 mm		8GK9735-0KK20
			750 mm		8GK9735-0KK30
			1000 mm		8GK9735-0KK40
			1250 mm		8GK9735-0KK50
	30 × 10 mm	630 A	250 mm		8GK9736-0KK10
			500 mm		8GK9736-0KK20
			750 mm		8GK9736-0KK30
			1000 mm		8GK9736-0KK40
			1250 mm		8GK9736-0KK50
Busbar supports					
	Version	Use		Busbar center-to-center spacing	Article No.
	1-pole	For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm		-	8GK9710-0KK00
	2-pole	For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm		60 mm	8GK9710-0KK01
ď	3-pole		ases and 3NP4076 switch unction with assembly kits	60 mm	8GK9711-0KK03
	4-pole	For Cu busbars 12 × 5 (10) mm, 30 × 5 (10) mm	uncuon with assembly kits	60 mm	8GK9670-0KK00
N N N N	5-pole	For Cu busbars 12 × 5 (10) mm 3NP fuse switch disco	onnectors	40 mm	8GK9650-0KK00

For ALPHA 1250 / 630 / 400 / 160 distribution boards

					1250	630	400	160
Wall-mounting ra	ils							
	For all wall-mou	unted distribut	ion boards					
H	Length			Article No.				
	250 mm			8GK9912-0KK10				
	500 mm			8GK9912-0KK20				
	750 mm			8GK9912-0KK30				
	1000 mm			8GK9912-0KK40				
	1250 mm			8GK9912-0KK50				
Cabinet mounting	lugs, flat							
	Use			Article No.				
	For mounting and a clearance (1 set		oution board directly against the wall without	8GK9910-0KK36		•	•	
		inst the wall w	ards and for mounting and fixing a distribution ithout a clearance (8GK9910-0KK36 additionally units	8GK9910-0KK37		•	•	•
Wall mounting lug								
	• 1 set = 4 units							
				Article No.				
				8GK9920-0KK33		-		
Hollow wall set								
	Use			Article No.				
	For mounting flus	h-mounting di	stribution boards in hollow walls	8GK9910-0KK28				
M12 transport eye	ebolts	<u> </u>						
88				Article No.				
				8GK9918-0KK00		-		
PP						_		
Ventilation grilles	for side panel							
4				Article No.				
				8GK9120-0KK30	•	•	•	
Bases for flat pack	k floor-mounted d	istribu <u>tion bo</u>	pards					
1	Height outside	Depth	Width	Article No.				
	100 mm	210 mm	300 mm	8GK9901-0KK12				
			550 mm	8GK9901-0KK22				
			800 mm	8GK9901-0KK32				
			1050 mm	8GK9901-0KK42				
			1300 mm	8GK9901-0KK52				

For ALPHA 1250 / 630 / 400 / 160 distribution boards

for pre-asse	mbled (welded) f	loor-mounte	ed distribution boards					
roi pre-asse	Height outside	Depth	Width	Article No.				
	100 mm	210 mm	300 mm	8GK9901-0KA12				
- 1	100 111111	21011111	550 mm	8GK9901-0KA22				
,			800 mm	8GK9901-0KA32				
			1050 mm	8GK9901-0KA42				
			1300 mm	8GK9901-0KA52				
		250 mm	300 mm	8GK9900-0KK13				۲
		250 11111	550 mm	8GK9900-0KK23				
			800 mm	8GK9900-0KK33				
			1050 mm	8GK9900-0KK43				
			1300 mm	8GK9900-0KK53				
		320 mm	300 mm	8GK9900-0KK14				t
		320 11111	550 mm	8GK9900-0KK24				
			800 mm	8GK9900-0KK34				
			1050 mm	8GK9900-0KK44				
			1300 mm	8GK9900-0KK54				
		400 mm	300 mm	8GK9902-0KK13				İ
		100 11111	550 mm	8GK9902-0KK23				
			800 mm	8GK9902-0KK33				
			1050 mm	8GK9902-0KK43				
			1300 mm	8GK9902-0KK53				
ons, vertica	I							i
		nd spatial sep	aration of different potentials		_			Ī
	Cubicle depth		Height	Article No.				
	140 mm		450 mm	8GK9001-3KK01				
			600 mm	8GK9001-4KK01				
			750 mm	8GK9001-5KK01				
			900 mm	8GK9001-6KK01				
			1050 mm	8GK9001-7KK01				
	210 mm		300 mm	8GK9301-2KK01			-	Ī
			450 mm	8GK9301-3KK01			-	
			600 mm	8GK9101-4KK01				
			750 mm	8GK9101-5KK01		-	-	
			900 mm	8GK9101-6KK01		-	-	
			1050 mm	8GK9101-7KK01				
			1200 mm	8GK9101-8KK01			-	
			1350 mm	8GK9102-8KK01		-		
	250/320 mm		1800 mm	8GK9520-8KK00		-		Ī
	400 mm		1800 mm	8GK9521-8KK00				Ī

• For the visual at Cubicle depth 140 mm 210 mm 250 /320 mm 400 mm Cubicle Height 600 mm 750 mm	width 250 mm 500 mm	aration of differen Width 250 mm 500 mm 750 mm 250 mm 500 mm 500 mm Mounting plat	t potentials	Article No. 8GK9002-0KK10 8GK9103-0KK10 8GK9103-0KK20 8GK9103-0KK30 8GK9520-0KK10 8GK9520-0KK20		:	:	
Cubicle depth 140 mm 210 mm 250 /320 mm 400 mm Cubicle Height 600 mm	Width 250 mm	Width 250 mm 250 mm 500 mm 750 mm 250 mm 250 mm Mounting plat	t potentials	8GK9002-0KK10 8GK9103-0KK10 8GK9103-0KK20 8GK9103-0KK30 8GK9520-0KK10 8GK9520-0KK20		•	-	
140 mm 210 mm 250 /320 mm 400 mm Cubicle Height 600 mm	250 mm	250 mm 250 mm 500 mm 750 mm 250 mm 500 mm 250 mm		8GK9002-0KK10 8GK9103-0KK10 8GK9103-0KK20 8GK9103-0KK30 8GK9520-0KK10 8GK9520-0KK20		•	-	
210 mm 250 /320 mm 400 mm Cubicle Height 600 mm	250 mm	250 mm 500 mm 750 mm 250 mm 500 mm 250 mm		8GK9103-0KK10 8GK9103-0KK20 8GK9103-0KK30 8GK9520-0KK10 8GK9520-0KK20		•	-	
250 /320 mm 400 mm Cubicle Height 600 mm	250 mm	500 mm 750 mm 250 mm 500 mm 250 mm		8GK9103-0KK20 8GK9103-0KK30 8GK9520-0KK10 8GK9520-0KK20		•	-	
400 mm Cubicle Height 600 mm	250 mm	750 mm 250 mm 500 mm 250 mm		8GK9103-0KK30 8GK9520-0KK10 8GK9520-0KK20		:	:	
400 mm Cubicle Height 600 mm	250 mm	250 mm 500 mm 250 mm		8GK9520-0KK10 8GK9520-0KK20		•	-	
400 mm Cubicle Height 600 mm	250 mm	500 mm 250 mm Mounting plat		8GK9520-0KK20				
Cubicle Height 600 mm	250 mm	250 mm Mounting plat						
Cubicle Height 600 mm	250 mm	Mounting plat		OCKOESO OKKSO				
Height 600 mm 750 mm	250 mm	~ .		8GK9520-0KK30				
Height 600 mm 750 mm	250 mm	~ .						
600 mm 750 mm	250 mm			Article No.				
750 mm		Height	Width	0.01/0.534 41/1/4.0				
	500 mm	596 mm	243 mm	8GK9531-4KK10			-	
		596 mm	493 mm	8GK9531-4KK20			-	L
900 mm	250 mm	685 mm	243 mm	8GK9531-5KK10			•	
900 mm	500 mm	685 mm	493 mm	8GK9531-5KK20			•	
	250 mm	835 mm	243 mm	8GK9531-6KK10			-	
	500 mm	835 mm	493 mm	8GK9531-6KK20			-	1
1050 mm	250 mm	985 mm	243 mm	8GK9531-7KK10				
	500 mm	985 mm	493 mm	8GK9531-7KK20				L
1200 mm	250 mm	1135 mm	243 mm	8GK9531-8KK10				
	500 mm	1135 mm	493 mm	8GK9531-8KK20				
1350 mm	250 mm	1285 mm	243 mm	8GK9532-8KK10				
	500 mm	1285 mm	493 mm	8GK9532-8KK20				
1800 mm	250 mm	1680 mm	242 mm	8GK9533-0KK10				Γ
	500 mm	1680 mm	492 mm	8GK9533-0KK20				
	750 mm	1680 mm	742 mm	8GK9533-0KK30				
	1000 mm	1680 mm	992 mm	8GK9533-0KK40		_		
or telecommunic	cation units							
Made of perfo	rated steel plate	e						Γ
With insert nur	ts and quick-loc	king technology						
Cubicle		Mounting plat	tes	Article No.				
Height	Width	Height	Width					
900 mm	250 mm	835 mm	243 mm	8GS4016-1				
1050 mm	250 mm	985 mm	243 mm	8GS4016-2				
1200 mm	250 mm	1135 mm	243 mm	8GS4016-3				
1350 mm	250 mm	1285 mm	243 mm	8GS4016-4				ı
2 longitudinal	stays are requir							
Cubicle depth		Length		Article No.				
210 mm		300 mm		8GK4855-2KK02				
		450 mm		8GK4851-3KK00				
		600 mm						
							-	
		1350 mm 1800 mm						
				8GK4853-8KK00				
	r telecommunic Made of perfo With insert nu Cubicle Height 900 mm 1050 mm 1200 mm 1350 mm In order to mo 2 longitudinal 1 set = 2 stays Cubicle depth	500 mm 750 mm 1000 mm 1250 mm 1250 mm r telecommunication units • Made of perforated steel plate • With insert nuts and quick-loc Cubicle Height Width 900 mm 250 mm 1050 mm 250 mm 1200 mm 250 mm 1200 mm 250 mm 1350 mm 1200 mm 1350 mm 250 mm 1350 mm 250 mm	500 mm	500 mm	1680 mm	500 mm	500 mm	Telecommunication units

For ALPHA 1250 / 630 / 400 / 160 distribution boards

						1250	630	400	160
Stay supports									
Stay supports	• For donth of 2	110 mm whon n	nounting stay	ys are to be shifted forward by 55 mm					
				ails are mounted directly on the stays					
				,	Article No.				
3 -0					8GK9910-0KK38				
Universal brack	ets								
a					Article No.				
					8GK9910-0KK05	-	-		
3									
									_
Connecting kits	for longitudinal st	ays			A 42 1 A1				
W The second	Depth				Article No.	_	_	_	
V.	250/320 mm				8GK9910-0KK32	•		•	
V. T									
6									
Crossbars									
ď	Width				Article No.				
	500 mm				8GK4853-0KK20		-		
	750 mm				8GK4853-0KK30		-		
Front cover, clos	sed								
	Tier spacing	Height	Width		Article No.				
	150 mm	75 mm	250 mm		8GK9601-0KK10		-		
		150 mm	250 mm		8GK9601-1KK10		-		
			500 mm		8GK9601-1KK20		-		
			750 mm		8GK9601-1KK30		-		-
		300 mm	250 mm		8GK9601-2KK10		-		
			500 mm		8GK9601-2KK20	-	-		
			750 mm		8GK9601-2KK30	-	-		
		450 mm	250 mm		8GK9601-3KK10	-	-	-	
			500 mm		8GK9601-3KK20	•	-	•	
			750 mm		8GK9601-3KK30	-	-	-	-
		600 mm	250 mm		8GK9601-4KK10	-	-	•	•
			500 mm		8GK9601-4KK20	-	-	•	-
Enough account the			750 mm		8GK9601-4KK30	_	•	•	
Front cover with		Width	Tiors	NAVA	Article No				
	Height 150 mm	Width 250 mm	Tiers	MW 12	Article No. 8GK9601-1KK11				
	130 11/111	500 mm	1	24	8GK9601-1KK21				
		750 mm	1	36	8GK9601-1KK31				
	300 mm	250 mm	2	24	8GK9601-2KK11	-			
		500 mm	2	48	8GK9601-2KK21				
		750 mm	2	72	8GK9601-2KK31		-	-	
	450 mm	250 mm	3	36	8GK9601-3KK11	•	•	•	
		500 mm	3	72	8GK9601-3KK21				
		750 mm	3	108	8GK9601-3KK31		•	•	
	600 mm	250 mm	4	48	8GK9601-4KK11		•	•	
		500 mm	4	96	8GK9601-4KK21				
		750 mm	4	144	8GK9601-4KK31	-		•	

						1250	630	400	160
Supports for fr	ont cover								
P. STEE	Plastic					_			
1	Version	Length	Mounting		Article No.				
- AB - AB-	Spare part	117 mm	Standard		8GK9910-0KK30		-		
TO TO		54 mm	Standard		8GK9910-0KK20				
	Large pack	117 mm	For 15 mm standard mounthe standard mounting rail		8GK9910-0KK31	•	•	•	
		61.5 mm	For 15 mm standard mounthe stays	ting rail directly onto	8GK9910-0KK24	•	•	•	
Assembly tool	for supports								
5	For short andWith ergonor	d long version mic handle							
					Article No.				
67					8GK9910-0KK27	•	•	•	•
Support extens					4				
8 8	Length				Article No.				
666	7.5 mm				8GK9911-0KK03		•	•	•
Quick-lock scre	ws for front cover								
20 DD 12	Material	Color			Article No.				
2007	Plastic	RAL 7035 (ligh	nt gray)		8GK9910-0KK26	•	•	•	•
Replacement d	oor hinges								
4	For wall/floor1 set = 2 unit	r-mounted distribu ts	tion boards						
					Article No.				
					8GK9920-0KK24	•	•	•	•
Circuit diagram	ı pockets								
	Version		Format	Depth	Article No.				
	Sheet steel		DIN A3	10 mm	8GK9910-0KK22	•	•	•	•
Maria	Transparent slee	eve, adhered all-ov	er DIN A4		8GK9910-0KK23	•	•	•	•
	Plastic		DIN A4	30 mm	8GD9132				
0,0	Plastic, large pa	ck	DIN A4	30 mm	8GK9910-1KK24	•	•	•	•
Siemens name	plate								
SIEMENS	Material	Version	Color		Article No.				
SIEIMENS	Aluminum	Self-adhesive	petrol		8GD9084	•	•	•	•

For ALPHA 1250 / 630 / 400 / 160 distribution boards

				1250	630	400	160
IP43/IP55 locking		ounted distribution boards					
	Version		Article No.				
	Standard locking de	evice with rotary handle	8GK9560-0KK04			•	•
	Retrofit kit for stand	dard locking device with degree of protection IP44	8GK9560-0KK05			•	•
	Rotary handle locki	ng device for profile cylinders (E012 or Senat tumbler)	8GK9560-0KK06			•	•
	Rotary handle, lock	able, incl. E012 lock and two keys	8GK9560-0KK13			•	•
Locking systems f	or floor-mounted d	listribution boards					
	Version		Article No.				
	Rotary handle, rece	ssable, with pushbutton technique	8GK9561-0KK01	•	•		
		allation of profile semicylinder	8GK9561-0KK02	•	•		
Profile semicylind							
	Use	Version	Article No.				
	Wall-mounted dis- tribution boards	With E012 lock and two keys	8GK9560-0KK07			•	•
		With Senat tumbler and two keys	8GK9560-0KK08			•	•
THE STATE OF THE S		With 3-mm pin as double-bit lock	8GK9560-0KK10			•	•
	Floor-mounted distribution boards	With E012 lock and two keys	8GK9561-0KK00	•	•		
9-3		With Senat tumbler and two keys	8GK9560-0KK03	•	•		

				1250	630	400	160
Spare keys	Version		Article No.				
		erlocking mechanism	8GD9290	-	-		_
W.	For E012 lock	enocking mechanism	8GF9390-2				
				_			
Connecting kit, IP		a manuating of analogues					
CHI.		e mounting of enclosures rews, washers, nuts and 10 m roll of sealing strip					
			Article No.				
			8GK9920-0KK31		•		
Extra-deep bracke	ts						
	For recessed in	stallation of standard mounting rails					
The same			Article No.				
Establish to the land to	to double official		8GK9910-0KK34		-		
Extra-deep bracke	ts, deptn-adjusta	pie	Article No.				
B1 Page 1			8GK9911-0KK01	-	-		
			GURSS I T GIRRO I	_	_	_	
4							
Drop-down bracke	ets, universal						
			Article No.				
200			8GK9911-0KK02	-	-	•	
Standard mountin	g rails, lowered						
El.	Width		Article No.				_
	250 mm		8GK9910-0KK35		•		
90.	500 mm		8GK9910-0KK40	-			
	750 mm		8GK9910-0KK41		•	•	
15 mm standard n			A st. L. N				
	Width 250 mm		Article No. 8GK9910-1KK10		7		
	500 mm		8GK9910-1KK20				
	750 mm		8GK9910-1KK30		-		
	1000 mm		8GK9910-1KK40	-			
	1250 mm		8GK9910-1KK50		•		
Standard mountin		15 mm standard mounting rail					
		eft and a right holder	Austria Na				
	Version Long	Version For 1 standard mounting rail	Article No. 8GK9910-1KK81	-	-		
	Long	Tor I standard mounting ran	GGK7910-1KK01		•	•	
ordere Contraction		For 2 standard mounting rails	8GK9910-1KK83	-	•	•	
الم الوا							
TE Let		For 3 standard mounting rails	8GK9910-1KK84				
		Tor 5 standard mounting rans	GGR9910 TRROT	_	-	_	
1 is							
2							
7 7		For 4 standard mounting rails	8GK9910-1KK85	•	•	•	
n 10							
11							
Land.							

For ALPHA 1250 / 630 / 400 / 160 distribution boards

				1250	630	400	160
Iso supports							
	For insulated standard mounting	ng rail assembly					
	Version		Article No.				
	12 mm		8GK9911-0KK04				
	31.5 mm		8GK9911-0KK05				
	55.5 mm		8GK9911-0KK06				
Screws M5 × 10, s	elf-tapping						
	Large pack: 500 units						
0 k 2 .			Article No.				
			8GK9911-0KK00			-	
Crossbars for mou	inting vertical busbar systems						
	Width		Article No.				
	250 mm		8GK9911-1KK00		_	_	
	500 mm		8GK9911-1KK01				
	750 mm		8GK9911-1KK02				
Blanking strips	, 50		OGIOSTI TIMOL	_	_		
	Version	Color	Article No.				
	For 12 MW (1 MW = 18 mm)	RAL 7035 (light gray)	8GK9910-0KK00	-	_	_	
	Length 1 m w/o pressure-relief	RAL 7035 (light gray)	8GK9910-0KK01				
	joint, to cut to length	Tive 7000 (fight gray)	OGRAPATO ORROT	_	_	_	
Blanking plugs	, , , , , , , , , , , , , , , , , , ,						
31 3	Diameter		Article No.				
	6 mm		8GK9910-0KK06		•		
	11 mm		8GK9910-0KK07				
N terminals							
	For snap-on mounting onto the	standard mounting rail					
Transparent 2	 For distributing the neutral con 	ductor when using several RCCBs					
C MENTINE	• 2× screw terminal, conductor c						
e III sum	14× plug-in terminal, conducto	r cross-section max. 4 mm-	Austria Na				
China and the second			Article No.	_	_		_
DE townsingle			8GS4034-1	_	-		-
PE terminals		at and and as a surfice modified					
	 For snap-on mounting onto the 2× screw terminal, conductor c 						
timminum ?	14× plug-in terminal, conducto						
6 HARAMA			Article No.				
(e) HICHHII			8GS4034-2				
N/PE terminals							
	For snap-on mounting onto the						
Immunit -	 For distributing the neutral cond 1x screw terminal conductor cr 	oss-section max. 16 mm², per PE and N potential					
6 HARRIAN		cross-section max. 4 mm², per PE and N potential					
6 1151111			Article No.				
Out of the same			8GS4034-3		•		
N/N terminals							
	For snap-on mounting onto the	standard mounting rail					
Innumary	For distributing the neutral cond	ductor when using several RCCBs					
e le comme		oss-section max. 16 mm², per PE and N potential					
6 IEE	• /× plug-in terminal, conductor of	cross-section max. 4 mm², per PE and N potential	A -11 A -1				
Contract of the second			Article No.				
O			8GS4034-4		•		

						1250	630	400	160
Terminals for circ	cular conductors								
	Busbar thickness	s Conductor	cross-sectio	n	Article No.				
Ì	5 mm	1.5 16 m	ım²		8US1921-2A	A00 ■	•	•	
ň		1.5 35 m	ım²		8US1921-2A	800 ■	•	•	
		16 70 m	m²		8US1921-2A	C00 ■	•	•	
Ñ		16 120 r	nm²		8US1921-2A	D00 ■	•	•	
Terminals for circ					Austria Na				
	Busbar thickness 10 mm	1.5 16 m		n	Article No. 8US1921-2B	A00 ■	•	•	
ń		1.5 35 m	1.5 35 mm² 8U			800 ■	•	•	
		16 70 m	m²		8US1921-2B	C00 ■	•	•	
Ì		16 120 r	nm²		8US1921-2B	D00 ■	•	•	
Terminals with b	ases made of glas	s-fiber reinfo	rced polyes	ter resin					
	Incoming cables		Outgoing	g cables	Article No.				
		s-section	No. of	Cross-section					
	1 67	70 mm²	1	6 70 mm²	8JK401	•	•	•	
	4 3	35 mm²	3	4 35 mm²	8JH4044		•	•	
	50	240 mm²	1	50 240 mm²	8JK4061	•	•	•	
	2 50	240 mm²	2	50 185 mm²	8JK406		•	•	

For ALPHA 1250 / 630 / 400 / 160 distribution boards

						1250	630	400	160
Incoming and out	going termina	l for busbars							
	Busbar Dimensions	No. of	Conductor cross-section	Description	Article No.				
	16 × 3 mm	1	1.5 16 mm²		8JH4122				_
F			10 35 mm²		8JH4124	•	•	•	
A	6 × 6 mm	1	16 35 mm²	Can be retrofitted without dismantling the busbar	8JH4114	•	•	•	
144	20 × 8 mm	1 or 2	50 240 mm²	1 conductor per clamping point	8JK3171	•	•	•	
Incoming and out	going termina	l for busbars							
LEA	Busbar Dimensions	No. of	Conductor cross-section	Description	Article No.				
	-	-	-	2 conductors per clamping point	8JK3172	•	•	•	
D. C. C.	12 × 5 mm	1	10 35 mm²		8JH4104		•	•	
			16 70 mm²		8JH4105				
		2	16 35 mm²		8JH4105	•	•	•	
N/PE bars as plug-	in terminals								
		ng on longitudina	al stays at a 30° inclin	ation					_
The same of the sa	Version	Connectio	ns		Article No.				
-D	PE bar		nnections 2.5 16 r onnections 1.5 4 r		8GK9910-0KK11				•
	PE + N bar	21 screw co N bar: 2 screw co	nnections 2.5 16 r onnections 1.5 4 r nnections 2.5 16 r onnections 1.5 4 r	nm² nm² and	8GK9910-0KK12				•
Terminal with cera	amic base								
all all	Incoming cab	les	Outgoing cables	5					
	No. of Cr	oss-section		s-section	Article No.				
	1 4.	35 mm²	1 43	35 mm²	8JH404	•	•	•	•
Cable clamping ra	il								
/	For strain re C-profile 30								
	Width			Article No.					
	250 mm				8GK9911-0KK10				
	500 mm				8GK9911-0KK20		•		
	750 mm				8GK9911-0KK30				
	1000 mm				8GK9911-0KK40		•	•	
	1250 mm				8GK9911-0KK50		•	-	

					1250	630	400	160
Cable holders								
	Use	Version		Article No.				
	For standard mounting rail	Height 45 mm,		8GK9910-0KK80	-	•	•	
	For mounting in 5-mm hole	Clip with cable	tie	8GK9910-0KK81	-		•	
Flange for cable	installation							
	Version	Degree of	Cable routing	Article No.				
	4	protection	D. 11	051/0400 01/1/00		_	_	
	1-component flange	IP43	Bottom	8GK9100-0KK00	•		•	
	2-component flange			8GK9000-0KK02				-
	2-component flange	IP55	Top/bottom	8GK9100-0KK01	-	•	•	
	Bushing flange		Busbar system	8GK9100-0KK10	-	•	•	
Flange plate for	r cable installation							
	Version	Degree of	Cable diameter	Article No.				
	Blank flange	protection IP43		8GK9100-0KK02	-			
	Didnik hange	IP55		8GK9100-0KK03				
	Sheet steel, without knockouts	IP55		8GK9100-0KK04	-			
•	Flange,	IP55	14-65 mm	8GK9100-0KK05				
	incl. 1 cable support sleeve	11-33	14-03 11111	8GK9100-0KK03			•	
	Flange,	IP55	14-65 mm	8GK9100-0KK06	•	•	•	
	incl. 2 cable support sleeves							
Rubber cable er	triesFor inserting in 38 mm diame	otor knockouts (- F	24.20)					
	Degree of protection IP65	eter knockouts (= r	929)					
	No. of Cable diam	eter		Article No.				
	1 1229 mm			8HP1805	-	•	•	•
	2 615 mm			8HP1806			-	-
00								
	3 412.5 mn	า		8HP1807				
	3 112.3 11111			0111 1007	_	_	_	_
	4 412 mm			8HP1808	-			
Cable entries fo	or cable entry plate							
	For 8HP1520 cable entry plat Cable diameter	es		Article No.				
	Cable diameter 1465 mm			Article No. 8HC6900				
Breathers, PG 1				0110000				
Dieathers, FG T	 For distribution boards in an of 	outdoor climate to	avoid condensate					
	Degree of protection IP54							
0)3/				Article No.				
				8HE8541		-	-	-

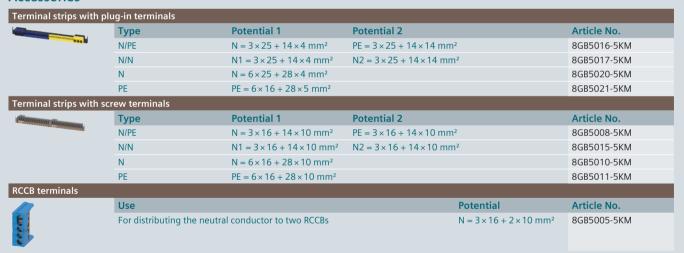
ALPHA SIMBOX XL small distribution boards

Flush-mounting and hollow-wall distribution boards, rated current up to 63 A



Recess dimensions			Туре	Safety class II	Safety class II	
Width	Depth	Length			Wall-recessed box	Expansion package
Flush-mount	ing distribution b	ooards				
359 mm	88 mm	393 mm	1-tier	8GB5012-1KM	8GB5212-1KM01	8GB5212-3KM01
		518 mm	2-tier	8GB5024-1KM	8GB5224-1KM01	8GB5224-3KM01
		643 mm	3-tier	8GB5036-1KM	8GB5236-1KM01	8GB5236-3KM01
		768 mm	4-tier	8GB5048-1KM	8GB5248-1KM01	8GB5248-3KM01
Hollow-wall distribution boards						
323 mm	88 mm	355 mm	1-tier	8GB5012-4KM	8GB5212-2KM01	8GB5212-4KM01
		480 mm	2-tier	8GB5024-4KM	8GB5224-2KM01	8GB5224-4KM01
		605 mm	3-tier	8GB5036-4KM	8GB5236-2KM01	8GB5236-4KM01
		730 mm	4-tier	8GB5048-4KM	8GB5248-2KM01	8GB5248-4KM01

Accessories



Surface-mounting distribution boards, rated current up to 63 A

			door		riastic doors, writte
		Degree of protection	IP30	IP30	IP30
External dimension	ons	Туре	Safety class II	Safety class II	Safety class II
Width De	pth Lengtl	า			

External dimensions		Туре	Safety class II	Safety class II	Safety class II	
Width	Depth	Length				
Surface-mounting distribution boards						
305 mm	99 mm	250 mm	1-tier	8GB5012-0KM	8GB5001-5KM	8GB5001-5KM01
		375 mm	2-tier	8GB5024-0KM	8GB5002-5KM	8GB5002-5KM01
		515 mm	3-tier	8GB5036-0KM	8GB5003-5KM	8GB5003-5KM01
		640 mm	4-tier	8GB5048-0KM	8GB5004-5KM	8GB5004-5KM01

Door locking kit						
	Use		Feature		Article No.	
	For snapping into door handle		With two keys	With two keys		
Blanking strips						
A Common of the	Width	Feature		Color	Article No.	
······································	12 MW	Increased flame protection up to 850 °C		White	8GB4683	
Mounting aid for flush mounting						
5555	Use				Article No.	
5555	For flush-mounting and	8GB5013-5KM				

ALPHA SIMBOX XL small distribution boards

Multimedia distribution boards, rated current up to 63 A

Surface-mounting distribution boards

Degree of protection IP30



Cutout width	Cutout depth	Cutout length	Туре	Safety class II
Hollow-wall/flush-mounti	ng distribution boards			
323 mm	88 mm	605 mm	3-tier	8GB5036-3KM01
		730 mm	4-tier	8GB5048-3KM01
Surface-mounting distribution boards				
323 mm	88 mm	605 mm	3-tier	8GB5036-3KM00
		730 mm	4-tier	8GB5048-3KM00

Accessories

Connecting lugs					
	Use	Article No.			
For installing several distribution boards in a row, vertically or horizontally		8GB5025-5KM			

ALPHA SIMBOX WP small distribution boards

Surface-mounting distribution boards, rated current up to 63 A

Unequipped surface-mounting distribution boards

Degree of protection IP65



Туре	Height	Width	Depth	Safety class II
	outside	outside	outside	
Surface-mounting distribut	ion boards			
1-tier	210 mm	143 mm	100 mm	8GB1371-0
		215 mm	100 mm	8GB1371-1
	260 mm	298 mm	140 mm	8GB1371-2
	285 mm	410 mm	140 mm	8GB1371-3
2-tier	420 mm	298 mm	140 mm	8GB1372-2
	463 mm	410 mm	140 mm	8GB1372-3
3-tier	655 mm	410 mm	140 mm	8GB1373-3
4-tier	878 mm	410 mm	160 mm	8GB1374-3

Accessories

CO	ve	15			
				1	
		fi	1		
		U			

- For connection of conduit and cable duct entries
- Snap-on mounting

MW	Article No.
12	8GB2051-0
18	8GB2051-1

N/PE terminal strips



• For snapping onto device holder

MW	Potential 1	Potential 2	Article No.
8	$N = 1 \times 25 + 7 \times 10 \text{ mm}^2$	$PE = 1 \times 25 + 7 \times 10 \text{ mm}^2$	8GB2052-0
12	$N = 3 \times 25 + 10 \times 10 \text{ mm}^2$	$PE = 3 \times 25 + 10 \times 10 \text{ mm}^2$	8GB2052-1
18	$N = 5 \times 25 + 14 \times 10 \text{ mm}^2$	$PE = 5 \times 25 + 14 \times 10 \text{ mm}^2$	8GB2052-2

Inner partitions, horizontal



 MW
 Article No.

 12
 8GB2053-0

 18
 8GB2053-1

	Front covers		
		MW	Article No.
		12	8GB2054-0
		18	8GB2054-1

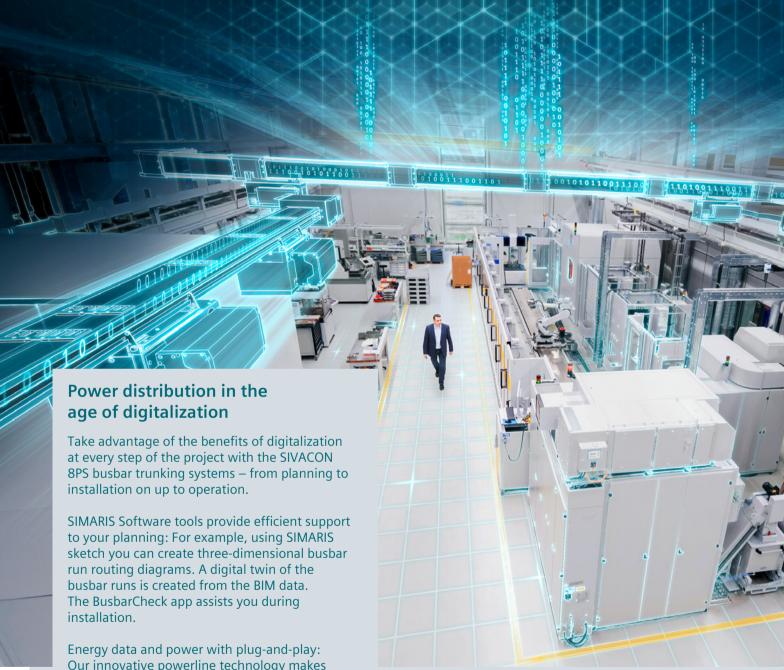
Safety cylinder locks



MaterialScope of supplyArticle No.MetalWith key8GB2055-0

Blanking strips

Version	Color	Article No.
For 12 MW	RAL 7035 (light gray)	8GK9910-0KK00
(1 MW = 18 mm)		



Energy data and power with plug-and-play:
Our innovative powerline technology makes
this possible for SIVACON 8PS busbar trunking
systems – efficient and reliable.
Energy data is simply transferred to the
automation and energy management systems,
as well as to cloud-based systems (IoT). Data and
electricity travel the same path via the conductor
circuits and phases of the BD2, LD and LI busbar
trunking systems.

16/2

16/4

16/4

16/6

Busbar Trunking Systems



A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

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- Brochure Energy and data successfully put on track (109747761)
- Catalog LV 70 2015 SIVACON 8PS busbar trunking systems - BD01, BD2 up to 1250 A (109744546)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

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• SIVACON power distribution (general) bit.ly/2m4oSLI



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- SIVACON 8PS sie.ag/2IXpCT1
- SIMARIS planning tools sie.ag/2m3oFbS

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No. www.siemens.com/product?Article No.

Order support for SIVACON 8PS - BD01 and BD2 www.siemens.com/LV70



Configurators

Configure your SIVACON 8PS BD01 or BD2 busbar trunking system in the Industry Mall

16

... can be found in our online services

Commissioning + operation



Planning tools

BIM-compliant SIMARIS planning tools

The SIMARIS planning tools effectively assist you in your planning process. Project-specific BIM (Building Information Modeling) data for cross-package planning is also possible.

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• Planning manual – Planning with SIVACON 8PS (109478425)

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Our training courses can be found at www.power-academy.siemens.com



Technical overview of busbar trunking systems



The fast way to get you to our online services

This page provides you with comprehensive information and links on busbar trunking systems www.siemens.com/lowvoltage/product-support (109769090)

Busbar trunking systems

		1110100				
Busbar trunking systems	BD01	BD2				
Basic data						
System description	Flexible power supply in workshops and production plants for skilled trades and businesses and commercial enterprises	The universal solution for high power levels in a small space, especially in offices and in industrial transfer lines				
Typical applications	 Workshops and production plants Supermarkets Data centers High-rise buildings Trade fair buildings Automotive industry Marine applications 	 Workshops and production plants Production industry Do-it-yourself centers Data centers High-rise buildings Foodstuffs industry Trade fair buildings Hospitals Automotive industry Marine applications 				
Basic data						
Rated insulation voltage U _i	400 V AC	690 V AC				
Rated operational voltage U _e	400 V AC	690 V AC				
Degree of protection	IP54, IP55	IP52, IP55				
Rated current I _{nA}	40 160 A	160 1250 A				
Rated peak withstand current I _{pk}	Up to 15.3 kA	Up to 90 kA				
Rated short-time withstand current I _{cw} (1 s)	Up to 2.5 kA	Up to 34 kA				
Number of conductors	4 (PE = enclosure)	5				
Connection technology	Connecting flange with built-in expansion compensation	With built-in expansion compensation, bolt-type terminal				
Outgoing feeders and junctions						
Tap-off point	On one side every 0.5 or 1 m	On one side every 0.5 m, On two sides offset every 0.25 m				
Tap-off unit	Up to 63 A	Up to 530 A				
Material						
Conductors	Aluminum / Copper	Aluminum or copper				
Enclosures	Sheet steel zinc-plated and painted	Sheet steel zinc-plated and painted				
(trunking unit, feeder unit)						
Communication						
Data transmission	Data line	powerline, data line				
Approvals / Certificates	FAC	FAC				
Approvals Marine classification societies	• DNV GL	DNV GL Environmental Product Declaration (EPD)				

¹⁾ IP66 for pure energy transfer runs without outgoing feeders.



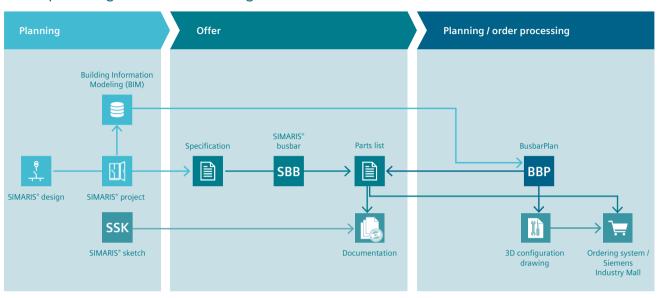
Data transfer with powerline technology



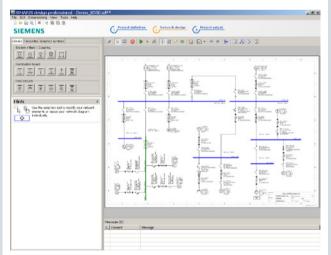
Planning and installation tools

For planning, visualization and installation of busbar trunking systems

From planning to commissioning



SIMARIS® design

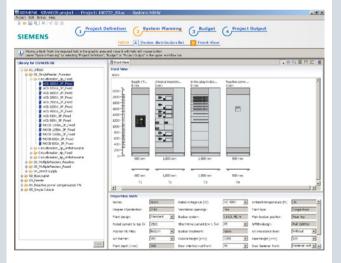


SIMARIS® design is a planning tool for fast and efficient grid calculation and dimensioning of electrical power distribution for special-purpose and industrial buildings.

- Dimensioning of electrical networks on the basis of real products according to acknowledged rules of technology and the applicable standards (VDE, IEC)
- Automatic selection of the appropriate components from the stored product database

Free download of the basic version and further information available at: www.siemens.com/simarisdesign

SIMARIS® project

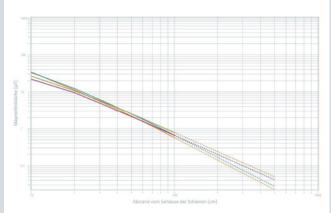


SIMARIS® project is a planning tool used to quickly determine the necessary space requirements and the budget for electrical energy distribution for special-purpose and industrial buildings and for automatic generation of specifications.

- Import into projects created with SIMARIS® design
- Export of 3D data in IFC 4.x format for BIM (Building Information Modeling)

Free download and further information available at: www.siemens.com/simarisproject

SIMARIS® Toolbox (online)



The SIMARIS® Toolbox is a platform for provision of online tools for assisting electrical installation planners. It includes, for example:

• EMC Busbar (tool for calculating magnetic field strength in the vicinity of SIVACON 8PS busbar trunking systems)

Free access and further information at: www.siemens.com/simaristoolbox

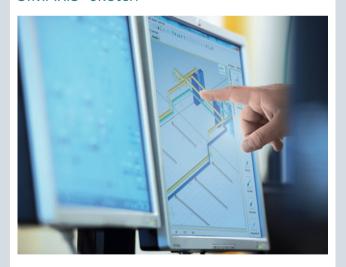
BIM data



BIM simplifies the planning process. While the simple exchange of relevant building data between the planners and the facility manager ensures high quality and reduces costs, the digital twin for power distribution fits in seamlessly with the overall structure – for efficient planning, performance and maintenance.

www.siemens.com/bim-eplanning

SIMARIS® sketch



SIMARIS® sketch is a software tool for quick and easy planning and visualization of busbar trunking systems.

- Representation of complex building structures
- Presentation of complete projects directly in 3D
- Export of parts lists as Excel files and graphics for preparation of orders

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BusbarCheck app



BusbarCheck is an installation app to use for easy and high-quality installation and documentation.

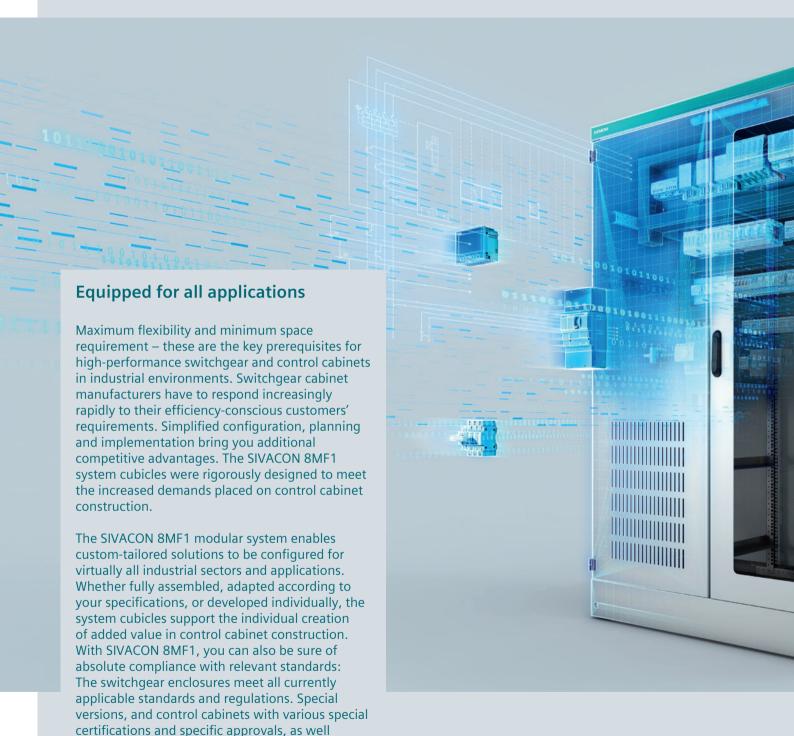
- Detailed explanation of all steps
- Written record and proper documentation for better and easier evaluation of the installation
- Can be used by all installation companies and SIVACON 8PS busbar trunking installations in Germany and in other selected countries

Free download from:

App Store and Play Store

as variants adapted to specific sectors, can be

individually developed.



System Cubicles, System Lighting and System Air-Conditioning



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Hygrostats, hygrotherms, switching modules

A multitude of additional information ...

Information + ordering



(i) All the important things at a glance

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i Your product in detail

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www.siemens.com/lowvoltage/product-support

- Technical basic information SIVACON 8MF1 system cubicle (109767386)
- Brochure SIVACON 8MF1 system cubicles -As versatile as your requirements (109744677)

The relevant tender specifications can be found at www.siemens.com/lowvoltage/tenderspecifications

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Configurators

Exactly the right cubicle for your application

The configurator reduces the time and effort required in the planning and ordering process, and allows for individual adaptations. Configure your SIVACON 8MF1 system cubicle at

www.siemens.com/lowvoltage/8mf1-configurator

The following are additionally available for your configured SIVACON 8MF1 system cubicle:

- · Parts lists
- 2D data
- 3D data

... can be found in our online services

Commissioning + operation



A Calculation tool

SIMARIS therm

SIMARIS therm helps you correctly dimension the heat dissipation of control cubicles.

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Technical overview of system cubicles, system lighting and system air conditioning



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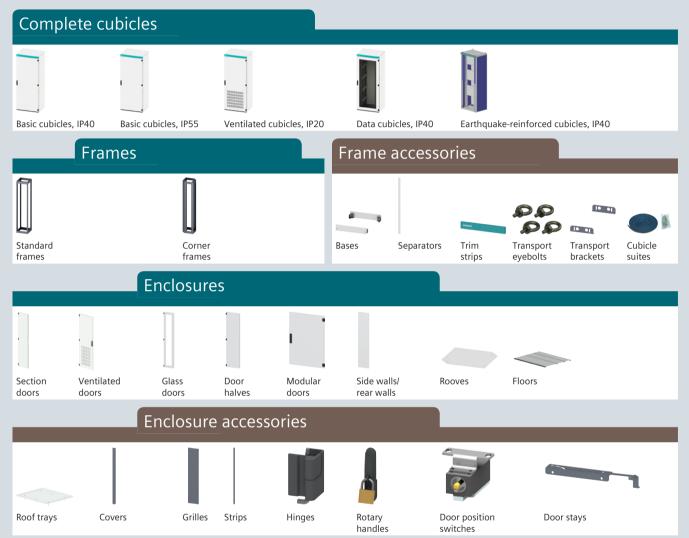
This page provides you with comprehensive information and links on system cubicles, system lighting and system air conditioning

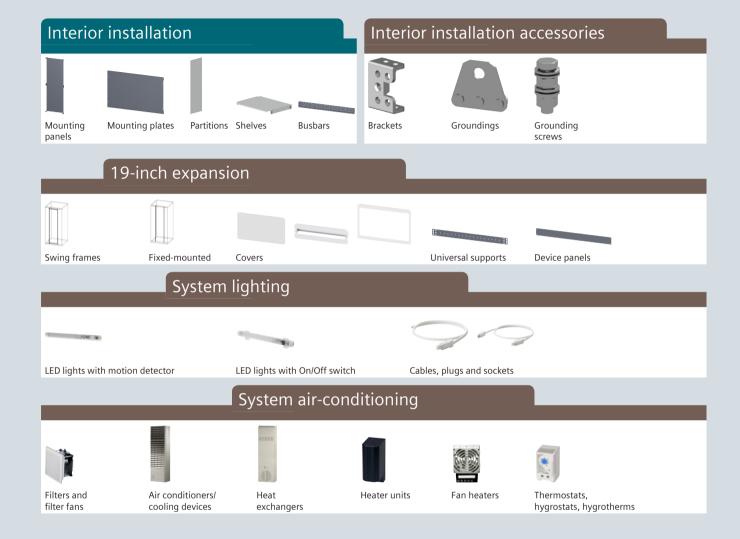
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System overview

Complete and configurable cabinets, system lighting and system air conditioning

For complete configuration of your cubicles, system lighting and system air conditioning, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator





System overview

SIVACON 8MF1 system cubicles



Quick selection guide for complete cubicles

Two installation variants



Stand-alone installation

• With side panels (ockable in the case of data cubicles)



Suite installation

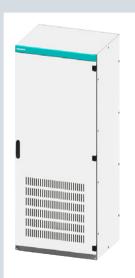
• Without side panels

Four versions



Basic version

• IP40 or IP55



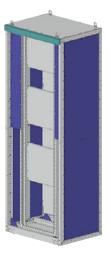
Ventilated cubicles

- IP20
- Door and roof with ventilation fins



Data cubicles

- IP40
- Glass door at front
- Section door at rear
- Roof with cable entry
- 19" fixed mounting



Earthquake-resistant version

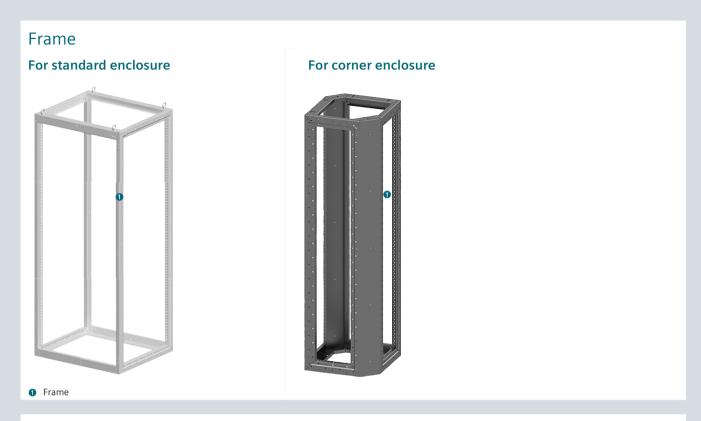
- IP40
- · Increased stability

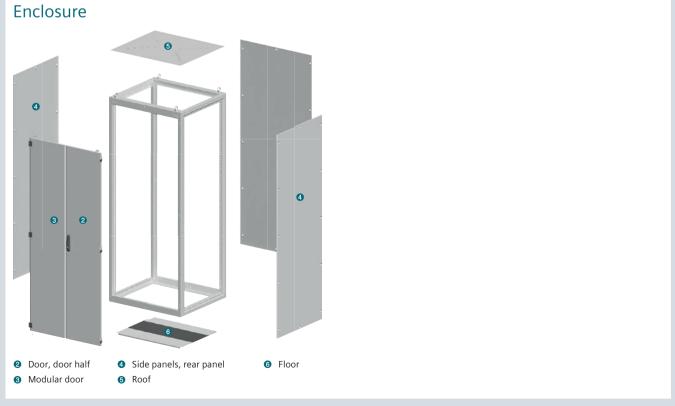
Article numbers for complete system cubicles

For a complete, verified configuration of your complete cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator

		8MF1	5	6	7	8	9	10	11
Height	1800 mm		8						_
	2000 mm		0						
	2200 mm		2						
Width	400 mm			4					
	600 mm			6					
	800 mm			8					
	900 mm			9					
	1000 mm			0					
	1200 mm			2					_
Depth	400 mm				4				
	500 mm				5				
	600 mm				6				
	800 mm				8				
	1000 mm				0				_
Version	Basic						В		
	Ventilated						V		
	Data						D		
	Earthquake-resistant						Е		
Installation	Singly							s	
	Side by side							R	
Degree of protection	Basic cubicles, data cubicles	IP40							4
		IP55							5
	Ventilated cubicles	IP20							4
	Earthquake-reinforced cubicles	IP40							5

Quick selection guide





• Frame

For standard enclosure



For complete, verified configuration of your system cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator

		8MF1	5	6	7	8	9 G	10 S	11	12
									ш	
Height	1800 mm		8							
	2000 mm 2200 mm		2							
Width	400 mm			4						
	600 mm			6						
	800 mm 900 mm			8 9						
	1000 mm			0						
	1200 mm			2						
Depth	400 mm				4					
	500 mm				5					
	600 mm				6					
	800 mm				8					
	1000 mm				0					
Material, surface	Zinc-plated								3	
	Powder-coated, RAL 7035								4	

For corner enclosure

			5	6	7		8	8 9	8 9 10	8 9 10 11	9 0 10 11
		8MF1	5	0	/	r					
		OIVITI					2	2 G	2 G E	2 G E	2 G E
Height	1800 mm		8								
	2000 mm		0								
	2200 mm		2								
Width	400 mm			4							
	600 mm			6							
	800 mm			8							
	1000 mm			0							
Depth	400 mm				5						
	600 mm				7						
	800 mm				0						
	1000 mm				1						
Material, surface	Zinc-plated									3	3

Accessories

Base

	8	BMF1	5	6	7	8	9	10
Height	100 mm		0					
	200 mm		2					
347 141	100							
Width	400 mm			4				
	600 mm			6				
	800 mm			8				
	900 mm			9				
	1000 mm			0				
	1200 mm			2				
Version	Base for cubicles with door at the front and the rear						С	R
Version							_	_
	Base and feet for cubicles with door at the front						С	S
	Base for corner cubicle						Е	S

Base cover

		8MF1	5	0	7	2	9 C	10
Height	100 mm		0					
	200 mm		2					
Depth	400 mm				4			
	500 mm				5			
	600 mm				6			
	800 mm				8			
	1000 mm				0			
Version	Base covers for cubicle side	es .						T

Trim strip

		8MF1	5 0	6	7	2	9 C	10 D	11		12
Width	400 mm			4							
	600 mm			6							
	800 mm			8							
	900 mm			9							
	1000 mm			0							
	1200 mm			2							
Version	Trim strip petrol	Without Siemens	logo, abo	ve the do	or	Withou		0	П	0	
		With Siemens log	o, left, abo	ove the d	loor	Without cutout					0
		With Siemens log	door	With cutout, left					6		
		With Siemens log	loor	With cutout, right					7		
	Trim strip RAL 7035	Without Siemens	logo, belo	w the do	or	Withou	t cutout		0		8

Separator

Separator for vertical division of the enclosure							
	Height	Article No.					
	1800 mm	8MF1165-2AT30					
	2000 mm	8MF1185-2AT30					
	2200 mm	8MF1205-2AT30					

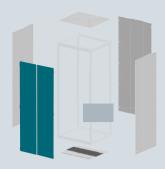
Mounting accessories

Accessories for cul	bicle suites			
	36 ()	Version	Degree of protection	Article No.
	Screw set	IP40	8MF1000-2CA	
	Sealing tape	IP40 to IP55	8MF1000-2CB	
		Side-by-side installation kit	IP40 EMC (IP55 not available)	8MF1000-2CE
Kit for stabilization	n of corner con	nections		
				Article No.
7				8MF1000-2HF

Transport accessories

Transport eyebolts		
00	Load bearing capacity	Article No.
	Up to 500 kg	8MF1000-2CK
PP		
Transport brakets		
10 01	Width	Article No.
	400 mm	8MF1040-2CW
	600 mm	8MF1060-2CW
10 01	800 mm	8MF1080-2CW
	900 mm	8MF1090-2CW
	1000 mm	8MF1000-2CW
	1200 mm	8MF1020-2CW

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For complete, verified configuration of your system cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator

		8MF1	5	6	7	8	9 U	10 T	11	12	13		14	1	5	16
Height	1800 m	nm	8									-				
	2000 m	nm	0													
	2200 m	nm	2													
Width	300 mr	m		3								-				
	400 mr	n														
	450 mr	m		4 7 5 6 8												
	500 mr	n		5												
	600 mr	n		6												
	800 mr	n														
	900 mr			9												
	1000 m	ım		0												
	1200 m	nm		2												
Door type	Section	door / inner door							1			-				
	Door ha	alf							2							
Hinge position	Left									5						
	Right									4						
Door version	IP20	With ventilation openings				Foame	d coal						В	A	Н	2
Door version	IP40	Closed				EMC se					0		C		_	1
	11-40	With ventilation slits				Foame							В		_	2
	IP55	Closed				Foame					2		В	- F		2
	11 33	With inspection window				Foame					0	-	В		_	2
	IPxx	With cutout 292 × 292 mm (up	to IP55)	for filter f	an	Foame					3	-	В			2
	_	Inner door, closed	5 (5 11 55)	107 IIICI I	u.i	Foame					4		В	<i>P</i>		2
		miner door, closed				i ouille	a scui							- /	· 1	-

Accessories

Pockets in the doors		
	Surface: zinc-plated	
	For door width	Article No.
	600 mm	8MF1060-2VP
r .	800 mm	8MF1080-2VP
Grilles		
	 To upgrade degree of protection from IP2x to IP4x Surface: zinc-plated 	
	Width	Article No.
	300 mm	8MF1030-2HM
	400 mm	8MF1040-2HM
	500 mm	8MF1050-2HM
	600 mm	8MF1060-2HM
	700 mm	8MF1070-2HM
	800 mm	8MF1080-2HM
	900 mm	8MF1090-2HM
Strips		
	 For door reinforcement Surface: zinc-plated Cannot be used for glass doors 	
	Height	Article No.
	1800 mm	8MF1008-2VM
	2000 mm	8MF1000-2VM
	2200 mm	8MF1002-2VM
De sitie en en situle en		
Position switches		4 2 1 2
	Version	Article No.
	1 NO + 1 NC	8MF1000-2VL
	1 NO + 2 NC	8MF1000-2VR
Circuit diagram pockets		
	Cannot be used for glass doors	
	Version	Article No.
	Plastic	8MF1000-2VK
	Steel, zinc-plated	8MF1000-2VU
Rotary handles		
	Version	Article No.
	With padlock	8MF1000-2VN

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Accessories

Rotary handle inserts		
	Not suitable for door halves	
	Version	Article No.
3	Double-bit key	8MF1000-2VA
	Square key	8MF1000-2VC
8	Triangular key	8MF1000-2VD
	Daimler	8MF1000-2VE
	Cylinder lock	8MF1000-2VF
Door stays		
	With variable opening angle Surface: zinc-plated	
L.		Article No.
		8MF1000-2VG

Spare part door

Hinge sets		
All	Version	Article No.
	For left-hand hinge	8MF1000-2VT
	For right-hand hinge	8MF1000-2VW
Rotary handles		
	Version	Article No.
	Without insert	8MF1000-2VP
Grounding cables for doors		
	Cable cross-section	Article No.
	6 mm ²	8MF1010-2HD3

Modular door



		8MF1	5	6	7	8	9 U	10 T	11 12 13 3 4 0	
nent	300 mm		3							
	400 mm		4							
	500 mm		5							
	600 mm		6							
	700 mm		7							
	800 mm		8							
	900 mm		9							
	1000 mm		0							
	1100 mm		1							
	1200 mm		2							
	600 mm			6						
	800 mm			8						

Accessories

Limit plates		
	For a number n of modular doors, n–1 limit plates are additionally required. Please order separately	
	Width	Article No.
	600 mm	8MF1060-2AK14-0
	800 mm	8MF1080-2AK14-0

4 Side/rear panel



For complete, verified configuration of your system cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator

			8MF1	5	6	7	8	9 U	10 W	11	12	13	14
Height		1800 mm 2000 mm 2200 mm		8 0 2									
Width		300 mm 400 mm 450 mm			3 4 7								
		600 mm 800 mm 900 mm			5 6 8 9								
Depth		1000 mm / No s 1200 mm	election available for po	artitions	2								
Берин		400 mm 500 mm				0 4 5 6							
		800 mm	election available for si	de panels		8							
Side wall/ rear wall	IP40	Closed	Without seal EMC seal							6	0 2	1	C B
	IP55	Flat Closed	Foamed seal							6	3	1	C C
Partition	11 33	Closed	Without seal							7	0	3	c

6 Roof

For standard systems



For complete, verified configuration of your system cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator

		8	MF1	5	6	7	8	9 U	10 D	11	12	13	14
Width	400 mn	1			4								
	600 mn	1			6								
	800 mn	1			8								
	900 mn	1			9								
	1000 m	m			0								
	1200 m	m			2								
Depth	400 mn	1				4							
	500 mm	1				5							
	600 mn	1				6							
	800 mm	1				8							
	1000 m	m				0							
Version	IP20	Perforated		Without se	eal					2	0	0	Α
	IP40	Closed		Without se	eal					1	0	0	Α
				EMC seal						1	2	0	Α
		With ventilation fins	;	Without se	eal					3	0	0	Α
	IP55	Closed		Foamed se	eal					1	1	0	Α

For corner enclosure

			8MF1	5 0	6 0	7	8	9 U	10 E	11	12	13	
Width/depth	400/400 mm					4							ı
	600/600 mm					6							ı
	800/800 mm					8							ı
	1000/1000 mm					0							ı
V	F	1020	M/Sels	411-41								0	ı
Version	For corner	IP20	With ven	tilation c	penings					2	0		 Ļ
	cubicle	IP40	Closed							1	0	0	
			With ven	tilation c	penings					3	0	0	
		IP55	Closed							1	1	0	Î

Accessories

Roof trays

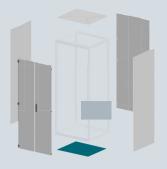
Roof trays for increasing the degre	e of protection, IPX1		
	Width	Depth	Article No.
	400 mm	400 mm	8MF1044-2VH
		500 mm	8MF1045-2VH
		600 mm	8MF1046-2VH
		800 mm	8MF1048-2VH
		1000 mm	8MF1040-2VH
	600 mm	400 mm	8MF1064-2VH
		500 mm	8MF1065-2VH
		600 mm	8MF1066-2VH
		800 mm	8MF1068-2VH
		1000 mm	8MF1060-2VH
	800 mm	400 mm	8MF1084-2VH
		500 mm	8MF1085-2VH
		600 mm	8MF1086-2VH
		800 mm	8MF1088-2VH
		1000 mm	8MF1080-2VH
	900 mm	400 mm	8MF1094-2VH
		500 mm	8MF1095-2VH
		600 mm	8MF1096-2VH
		800 mm	8MF1098-2VH
		1000 mm	8MF1090-2VH
	1000 mm	400 mm	8MF1004-2VH
		500 mm	8MF1005-2VH
		600 mm	8MF1006-2VH
		800 mm	8MF1008-2VH
		1000 mm	8MF1000-2VH
	1200 mm	400 mm	8MF1024-2VH
		500 mm	8MF1025-2VH
		600 mm	8MF1026-2VH
		800 mm	8MF1028-2VH
		1000 mm	8MF1020-2VH

Roof tray rims

Roof tray fillis		
Roof tray rims for cubicle side, IPX1		
	Each cubicle or cubicle group with a roof tray requires two roof tray rims. (1 set = 2 units)	
	Depth	Article No.
	400 mm	8MF1004-2VB
	500 mm	8MF1005-2VB
	600 mm	8MF1006-2VB
	800 mm	8MF1008-2VB
	1000 mm	8MF1000-2VB

6 Floor

For standard enclosure



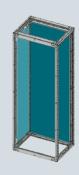
For complete, verified configuration of your system cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator

			8MF1	5 0	6	7	8	9 U	10 B	11	12	13
Width		400 mm			4							
		600 mm			6							
		800 mm			8							
		900 mm			9							
		1000 mm			0							
		1200 mm			2							
Depth		400 mm				4						
		500 mm				5						
		600 mm				6						
		800 mm				8						
		1000 mm				0						
Version	IP30	Closed, divided								2	2	0
	IP40	Closed	EMC se	eal						4	2	0
	IP55	Closed	Foame	d seal						1	2	0
	IPxx	With cable entry								3	2	0
		With cable entry, lateral								5	1	2
		With cut-outs for flanges								5	2	0

For corner enclosure

		8MF1	5	6 0	7	8	9 U	10 E	11	12 13 1 0
Depth	400 mm				4					
	600 mm				6					
	800 mm				8					
	1000 mm				0					
D	ID40									
Degree of protection	IP40								2	
protection	IP55								1	

Mounting panels



For complete, verified configuration of your system cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator

		8MF1	5	6	7	8	9 A	10	11	12
		OIVII I							-	
Cubicle height	1800 mm		8							
	2000 mm		0							
	2200 mm		2							
Cubicle width	400 mm			4						
	600 mm			6						
	800 mm			8						
	900 mm			9						
	1000 mm / No selection avail	able for installation on side	of cubicle	0						
	1200 mm			2						
Depth	400 mm				4					
•	500 mm				5					
	600 mm				6					
	800 mm				8					
	1000 mm / No selection ava	ilable for installation on c	ubicle wid	th	0					
Installation location	Cubicle width							L		
	Cubicle side							К		
Version	Smooth								0	
	Perforated								1	
	Terrorated									

Accessories

Mounting panel adapters



- For connecting side-by-side mounting panels

Surface: zinc-plated	
Height	Article No.
1800 mm	8MF1800-2CH
2000 mm	8MF1000-2CH
2200 mm	8MF1200-2CH

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Mounting plates



For complete, verified configuration of your system cubicle, please use our online configurator at: www.siemens.com/lowvoltage/8mf1-configurator



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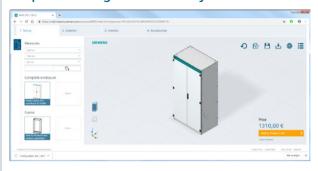
Mounting rails

Mounting rails (50)	Vencien		Lowerth	Autiala N-
	Version Suitable for cubicle width	400 100 100	Length	Article No.
	Suitable for cubicle width	400 mm	325 mm	8MF1032-2AS30
		600 mm	525 mm	8MF1052-2AS30
			550 mm	8MF1055-2AS30
		000	625 mm	8MF1062-2AS30
		800 mm	725 mm	8MF1072-2AS30
		000	750 mm	8MF1075-2AS30
		900 mm	825 mm	8MF1082-2AS30
		1000 mm	925 mm	8MF1092-2AS30
			1050 mm	8MF1105-2AS30
		1200 mm	1125 mm	8MF1112-2AS30
			1250 mm	8MF1125-2AS30
			1350 mm	8MF1135-2AS30
			1450 mm	8MF1145-2AS30
			1550 mm	8MF1155-2AS30
	Suitable for cubicle height	1800 mm	1650 mm	8MF1165-2AS30
	ŭ "		1750 mm	8MF1175-2AS30
		2000 mm	1850 mm	8MF1185-2AS30
			1950 mm	8MF1195-2AS30
		2200 mm	2050 mm	8MF1205-2AS30
		2200 111111	2150 mm	8MF1215-2AS30
			2250 mm	8MF1225-2AS30
	Suitable for cubicle death	400 000		
	Suitable for cubicle depth	400 mm	250 mm	8MF1025-2AS30
		500 mm	350 mm	8MF1035-2AS30
			425 mm	8MF1042-2AS30
		600 mm	450 mm	8MF1045-2AS30
		800 mm	650 mm	8MF1062-2AS30
		1000 mm	850 mm	8MF1085-2AS30
ounting rails, serrated				A 22 1 22
	Version		Length	Article No.
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	Flat		600 mm	8MF1060-2HC13-0
THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW			800 mm	8MF1080-2HC13-0
			900 mm	8MF1090-2HC13-0
			1000 mm	8MF1000-2HC13-0
			1200 mm	8MF1020-2HC13-0
THE PROPERTY OF THE PARTY OF TH	U-shape		600 mm	8MF1060-2HC03-0
HILLIAN TO THE PARTY OF THE PAR			800 mm	8MF1080-2HC03-0
			900 mm	8MF1090-2HC03-0
			1000 mm	8MF1000-2HC03-0
			1200 mm	8MF1020-2HC03-0
ounting rails, compact				
Control of the Contro	Version		Length	Article No.
	Suitable for cubicle width	600 mm	566 mm	8MF1056-2AS30
		1000 mm	966 mm	8MF1096-2AS30
		1200 mm	1166 mm	8MF1006-2AS30
			166 mm	8MF1016-2AS30
	Suitable for door width	300 mm		
	Suitable for door width	300 mm 400 mm	266 mm	8MF1026-2AS30
	Suitable for door width		266 mm 316 mm	8MF1026-2AS30 8MF1031-2AS30
	Suitable for door width	400 mm 450 mm	316 mm	8MF1031-2AS30
	Suitable for door width	400 mm 450 mm 500 mm	316 mm 366 mm	8MF1031-2AS30 8MF1036-2AS30
	Suitable for door width	400 mm 450 mm 500 mm	316 mm 366 mm 466 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30
	Suitable for door width	400 mm 450 mm 500 mm 600 mm 800 mm	316 mm 366 mm 466 mm 666 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30
	Suitable for door width	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm	316 mm 366 mm 466 mm 666 mm 766 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30
	Suitable for door width	400 mm 450 mm 500 mm 600 mm 800 mm	316 mm 366 mm 466 mm 666 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30
		400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30
	Can be installed in the cubicl	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm 866 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30
ounting rails, heavy duty	Can be installed in the cubicl (the length corresponds to the content of the length corresponds to the length corresp	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm 866 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30 8MF1086-2AS30
ounting rails, heavy duty	Can be installed in the cubicl (the length corresponds to the length)	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm 866 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30 8MF1086-2AS30
ounting rails, heavy duty	Can be installed in the cubicl (the length corresponds to the length 600 mm	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm 866 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30 8MF1086-2AS30 Article No. 8MF1060-2AH60
ounting rails, heavy duty	Can be installed in the cubicl (the length corresponds to the length 600 mm 800 mm	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm 866 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30 8MF1086-2AS30 Article No. 8MF1060-2AH60 8MF1080-2AH60
ounting rails, heavy duty	Can be installed in the cubicl (the length corresponds to the length 600 mm 800 mm 900 mm	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm 866 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30 8MF1086-2AS30 Article No. 8MF1060-2AH60 8MF1080-2AH60 8MF1090-2AH60
ounting rails, heavy duty	Can be installed in the cubicl (the length corresponds to the length 600 mm 800 mm	400 mm 450 mm 500 mm 600 mm 800 mm 900 mm 1000 mm	316 mm 366 mm 466 mm 666 mm 766 mm 866 mm	8MF1031-2AS30 8MF1036-2AS30 8MF1046-2AS30 8MF1066-2AS30 8MF1076-2AS30 8MF1086-2AS30 Article No. 8MF1060-2AH60 8MF1080-2AH60

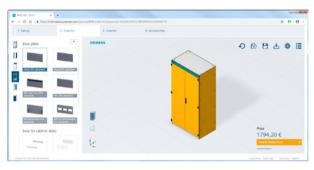
Online configurator highlights

www.siemens.com/lowvoltage/8mf1-configurator

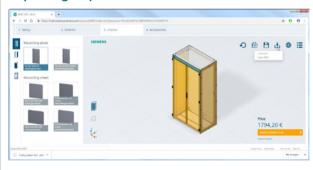
Graphical configuration directly on the 3D model (WYSIWYG)



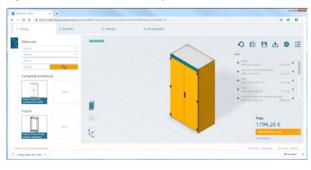
Customization of the control cabinet with cutouts and color



Exporting of parts lists and 3D and 2D data



Dynamic and interactive parts lists



19-inch expansion

	 In combination with 2 (order separately, see) 	 For the installation of 19" devices, screwed In combination with 2 mounting rails heavy duty in cabinet width (order separately, see page 17/26) For cabinet width ≥ 600 mm 			
	Surface	Height		Article No.	
	Zinc-plated	400 mm		8MF1100-2AN30	
		600 mm		8MF1200-2AN30	
		800 mm		8MF1300-2AN30	
		1000 mm		8MF1400-2AN30	
		1200 mm		8MF1500-2AN30	
		1400 mm		8MF1600-2AN30	
		1800 mm		8MF1700-2AN30	
		2000 mm	2000 mm		
		2200 mm		8MF1900-2AN30	
	(order mounting rail se		net width		
	(order mounting rail se • For cubicle width ≥800	parately) mm		Article No	
<u>-</u>	(order mounting rail se • For cubicle width ≥800 Version	parately) mm Surface	Height	Article No.	
	(order mounting rail se • For cubicle width ≥800	parately) mm	Height 1800 mm	8MF1800-2AR02-4	
	(order mounting rail se • For cubicle width ≥800 Version	parately) mm Surface	Height 1800 mm 2000 mm	8MF1800-2AR02-4 8MF1000-2AR02-4	
	(order mounting rail se • For cubicle width ≥800 Version	parately) mm Surface	Height 1800 mm	8MF1800-2AR02-4	
	(order mounting rail se • For cubicle width ≥800 Version	parately) mm Surface Zinc-plated	Height 1800 mm 2000 mm 2200 mm	8MF1800-2AR02-4 8MF1000-2AR02-4 8MF1200-2AR02-4	
	(order mounting rail se • For cubicle width ≥800 Version	parately) mm Surface Zinc-plated	Height 1800 mm 2000 mm 2200 mm 1800 mm	8MF1800-2AR02-4 8MF1000-2AR02-4 8MF1200-2AR02-4 8MF1800-2AR02-3	
	(order mounting rail se • For cubicle width ≥800 Version	parately) mm Surface Zinc-plated	Height 1800 mm 2000 mm 2200 mm 1800 mm 2000 mm	8MF1800-2AR02-4 8MF1000-2AR02-4 8MF1200-2AR02-4 8MF1800-2AR02-3 8MF1000-2AR02-3	
	(order mounting rail se • For cubicle width ≥800 Version Screwed	Parately) I mm Surface Zinc-plated Powder-coated	Height 1800 mm 2000 mm 2200 mm 1800 mm 2000 mm 2000 mm	8MF1800-2AR02-4 8MF1000-2AR02-4 8MF1200-2AR02-4 8MF1800-2AR02-3 8MF1000-2AR02-3 8MF1200-2AR02-3	
	(order mounting rail se • For cubicle width ≥800 Version Screwed	Parately) I mm Surface Zinc-plated Powder-coated	Height 1800 mm 2000 mm 2200 mm 1800 mm 2000 mm 1800 mm	8MF1800-2AR02-4 8MF1000-2AR02-4 8MF1200-2AR02-4 8MF1800-2AR02-3 8MF1000-2AR02-3 8MF1200-2AR02-3 8MF1800-2AR02-2	

Accessories

Universal supports								
	Version	For mounting height	Article No.					
<u> </u>	For cable channel, DIN rail and C-bar	1 HU	8MF1000-2HH2					
		2 HU	8MF1000-2HH3					
	For cable channel, DIN rail, C-bar and lamp		8MF1000-2HH4					

overs	Version	Surface	For mounting height	Article No.
	Closed	RAL 7035	1HU	8MF1000-2AB01
	Closed	1012 7033	2HU	8MF1000-2AB02
			3 HU	8MF1000-2AB03
			4 HU	8MF1000-2AB04
			5 HU	8MF1000-2AB05
			6 HU	8MF1000-2AB06
			7 HU	8MF1000-2AB07
	With ventilation openings	RAL 7035	2 HU	8MF1000-2AB32
			3 HU	8MF1000-2AB33
	For modular installation devices	RAL 7035	3 HU	8MF1000-2AB31
ames				_
	Version	Surface		Article No.
	For mounting test switches, 19"	RAL 7035		8MF1000-2AB30
overs for frames				
. o. o To Traines	Version	Surface		Article No.
	For mounting 7XP 1/6 standard devices			8MF1000-2AB34
	J J			
	For mounting 7XP 2/6 standard devices	RAL 7035		8MF1000-2AB35
	For mounting 7XP 3/6 standard devices	RAL 7035		8MF1000-2AB36
elves	For 19" frame			
	Version	Surface	Depth	Article No.
	Non-adjustable	Zinc-plated	230 mm	8MF1000-2AB12
	Non-adjustable	Ziric-piateu	400 mm	8MF1000-2AB14
4	Withdrawable	RAL 7035	400 111111	8MF1000-2AB14
	withurawable	NAL 7033		6WI 1000-211112
de rails	Version	Depth		Article No.
D	For 19" fixed mounting	400 mm		8MF1004-2HG12
	(double mounting at front and rear)	600 mm		8MF1006-2HG12
		800 mm		8MF1008-2HG12
		1000 mm		8MF1000-2HG12
	For 19" fixed mounting and For 19" swing frame	. 3001		8MF1000-2HS12
evice panels				
	Surface	Height	Width	Article No.
		1800 mm	100 mm	8MF1810-2AB00
	Zinc-plated			8MF1850-2AB00
	Zinc-plated		150 mm	01V11 1030-2/1000
	Zinc-plated		200 mm	8MF1820-2AB00
	Zinc-plated	2000 mm		
	Zinc-plated	2000 mm	200 mm	8MF1820-2AB00
	Zinc-plated	2000 mm	200 mm 100 mm	8MF1820-2AB00 8MF1010-2AB00
	Zinc-plated	2000 mm	200 mm 100 mm 150 mm	8MF1820-2AB00 8MF1010-2AB00 8MF1050-2AB00
	Zinc-plated		200 mm 100 mm 150 mm 200 mm	8MF1820-2AB00 8MF1010-2AB00 8MF1050-2AB00 8MF1020-2AB00

Interior installation

General accessories

Telescopic rails			
12.0	 For withdrawal 	ole shelves	
	For cubicle depth	1	Article No.
	400 mm and 600	mm	8MF1003-2HF
	800 mm and 1000	0 mm	8MF1006-2HF
Mounting brackets			
1	For mounting e	expansion elements	
00			Article No.
3.5			8MF1000-2CP
Earthquake assembly kits			
	For stabilization	of	Article No.
	Corner connection	ns	8MF1000-2HA
	Intermediate pane	el	8MF1000-2HW
=			
	Swing frame		8MF1000-2HE
TUH			
Grounding plates			
Grounding plates	For mounting of	on frame	
Grounding plates	For mounting c	on frame	Article No.
Grounding plates	For mounting of	on frame	Article No. 8MF1000-2HK
	For mounting of	on frame	
Grounding plates Grounding bars	_		
	Version	on frame Width	
	_	Width 600 mm	8MF1000-2HK Article No. 8MF1060-2HD2
	Version	Width 600 mm 800 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2
	Version	Width 600 mm 800 mm 900 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2
	Version	Width 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2
	Version 30 × 10 mm ²	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2
	Version	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1060-2HD1
	Version 30 × 10 mm ²	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1060-2HD1 8MF1080-2HD1
	Version 30 × 10 mm ²	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1060-2HD1 8MF1080-2HD1 8MF1090-2HD1
	Version 30 × 10 mm ²	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1060-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1090-2HD1
Grounding bars	Version 30 × 10 mm ²	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1060-2HD1 8MF1080-2HD1 8MF1090-2HD1
	Version 30 × 10 mm ² 30 × 5 mm ²	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1060-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1
Grounding bars	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1
Grounding bars	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$ • For withdrawal Thread	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1080-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1 8MF1000-2HD1
Grounding bars	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1
Grounding bars	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$ • For withdrawal Thread	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1 8MF1000-2HD1
Grounding bars Grounding screws	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$ • For withdrawal Thread	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1 8MF1000-2HD1
Grounding bars	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$ • For withdrawal Thread	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1 8MF1000-2HD1
Grounding bars Grounding screws	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$ • For withdrawal Thread M12	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1060-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1090-2HD1 8MF1000-2HD1 8MF1000-2HD1 8MF1000-2HD1
Grounding bars Grounding screws	Version $30 \times 10 \text{ mm}^2$ $30 \times 5 \text{ mm}^2$ • For withdrawal Thread M12 Cross-section	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	8MF1000-2HK Article No. 8MF1060-2HD2 8MF1080-2HD2 8MF1090-2HD2 8MF1000-2HD2 8MF1020-2HD2 8MF1060-2HD1 8MF1080-2HD1 8MF1090-2HD1 8MF1000-2HD1 8MF1000-2HD1 8MF1000-2HD1 8MF1000-2HD1 8MF1000-2HD1
Grounding bars Grounding screws	Version $30 \times 10 \text{ mm}^2$ 30 × 5 mm² • For withdrawal Thread M12 Cross-section 16 mm²	Width 600 mm 800 mm 900 mm 1000 mm 1200 mm 600 mm 800 mm 900 mm 1000 mm	### Article No. ### 8MF1000-2HK ### 8MF1060-2HD2 ### 8MF1080-2HD2 ### 8MF1000-2HD2 ### 8MF1000-2HD2 ### 8MF1080-2HD1 ### 8MF1080-2HD1 ### 8MF1090-2HD1 ### 8MF1000-2HD1 ### 8MF1020-2HD1 ### 8MF1020-2HD1 ### Article No. ### 8MF1000-2HB



Interior installation

General accessories

Cable duete					
Cable ducts	Version	Color	Height	Width	Article No.
		RAL 7035	37.5 mm	25 mm	8MF1120-2HL7
	Halogen-free	IAL 7033	50 mm	25 mm	8MF1220-2HL7
			30 111111	37.5 mm	8MF1240-2HL7
				50 mm	8MF1250-2HL7
				75 mm	8MF1260-2HL7
			75 mm	50 mm	8MF1350-2HL7
			73 111111	75 mm	8MF1360-2HL7
				100 mm	8MF1370-2HL7
				125 mm	8MF1380-2HL7
			100 mm	75 mm	8MF1460-2HL7
	Standard	DAI 7020	37.5 mm	25 mm	8MF1120-2HL7
	Standard	RAL 7030	50 mm	25 mm	8MF1220-2HL6
			ou mm		
				37.5 mm	8MF1240-2HL6
				50 mm	8MF1250-2HL6
			75	75 mm	8MF1260-2HL6
			75 mm	50 mm	8MF1350-2HL6
				75 mm	8MF1360-2HL6
				100 mm	8MF1370-2HL6
				125 mm	8MF1380-2HL6
			100 mm	75 mm	8MF1460-2HL6
dge protection					
	Dimensions 9.5 mm × 6.5 mm				Article No. 8MF1000-2CD
Mounting plates	_		_	_	_
4 F1	Dimensions		Version		Article No.
	122 mm × 91 mm		Standard		8MF1000-2HH
	122 mm × 92 mm		With DIN rail		8MF1000-2HH1
uses for improving EMC					
3	Installation in		Width	Depth	Article No.
5 '	Cubicle width		400 mm	-	8MF1040-2HN
3			600 mm	-	8MF1060-2HN
571111			800 mm	-	8MF1080-2HN
			900 mm	-	8MF1090-2HN
			1000 mm	-	8MF1000-2HN
			1200 mm	-	8MF1020-2HN
-1	Cubicle depth		-	400 mm	8MF1004-2HN
				600 mm	8MF1006-2HN
				800 mm	8MF1008-2HN

8MF1001-2HN

1000 mm

Brackets		
	For variable mounting of cable clamping rails	
••/		Article No.
		8MF1000-2HH5
Toothed bars		
2722	For installation on mounting rail	
The state of the s	Length	Article No.
minimin	100 mm	8MF1000-2HC
Contact washers		
	• Size 6	
	Scope of supply	Article No.
	100 units	8MF1000-2VJ
Screws		
	• M6×12	
	Scope of supply	Article No.
	100 units	8MF1000-2VS
Adapters for wiring systems		
4 4	Version	
A Marie	For Lütze wiring system	8MF1000-2HL
1994 MR	For Promet wiring system	8MF1000-2HP
00		

System overview, page 17/4 Siemens LV 10 · 10/2019 17/33

Quick selection guide

SIVACON 8MR system lighting ensures optimum lighting conditions during installation and maintenance. The LED technology is energy-efficient and maintenance-free.

Screw fixing Clip fixing Magnetic fixing Easy installation at any point Fixed installation in the case The lamp is snapped into on the steel cubicle of impact loads or high the clip bracket and can be vibration levels turned in both directions With motion detector The lights switch on when the door is opened, enabling work in the cubicle to be started immediately With On/Off switch Particularly suitable for operation in cubicles and enclosures with a high density of built-in electrical/electronic components

8MR system lighting

	Magnetic fixing	Screw fixing	Clip fixing
	Fod .	Mile Cod Code	
	1 200 a	1	
LED lights with motion detect	tor		
100 240 V AC, 50/60 Hz	8MR2200-0A	8MR2200-0B	8MR2200-0C
24 48 V DC	8MR2201-0A	8MR2201-0B	8MR2201-0C
LED lights with On/Off switch			
100 240 V AC, 50/60 Hz	8MR2200-1A	8MR2200-1B	8MR2200-1C
24 48 V DC	8MR2201-1A	8MR2201-1B	8MR2201-1C

Accessories

Cables



Individual plugs or sockets for self-assembly of cables

For connection of an LED light (switch side)									
	Version	Application	Color	Article No.					
100	AC socket	For input side	White	8MR2210-1A					
000	DC socket	DC socket For input side		8MR2210-3A					
For looping through to anot	her LED light								
1	Version	Application	Color	Article No.					
100	AC connector	For output side	White	8MR2210-2A					
000	DC connector	For output side	Blue	8MR2210-4A					

Quick selection guide

Solutions to provide protection against heat

Cooling devices



Heat exchangers



Filter fans / outlet fans



Thermostats





Solutions to provide protection against cold

Heater units



Fan heaters



Thermostats





Solutions to provide protection against corrosion and condensation

Heater units / fan heaters



Filter fans / outlet filters



Thermostats





Hygrostats / hygrotherms





SIMARIS® therm



SIMARIS® therm is a software tool that lets you easily and precisely dimension the heat dissipation of your control cubicles, simply by entering the ambient air temperature and selecting the relevant devices in the cubicle.

For a free download, and further information, visit: www.siemens.com/simaristherm

Filter fans and outlet filters

Filter fans

						Degree o IP54	f protection	Degree of IP55	f protection
	Size	Cutout	Voltage	Input rating at 50 Hz	Color	Air current, free-blowing at 50 Hz	Article No.	Air current, free-blowing at 50 Hz	Article No.
-	Filter	fans with EC tech	nology						
	2	125 × 125 mm	115 V AC, 50/60 Hz	4.4 W	RAL 7035	62 m³/h	8MR6411-5LE25		-
			230 V AC, 50/60 Hz	4.4 W	RAL 7035	62 m³/h	8MR6423-5LE25		-
	3	177 × 177 mm	115 V AC, 50/60 Hz	4.4 W	RAL 7035	120 m³/h	8MR6411-5LE30		-
			230 V AC, 50/60 Hz	4.4 W	RAL 7035	120 m³/h	8MR6423-5LE30		-
	Stand	ard filter fans							
	1	92 × 92 mm	115 V AC, 50/60 Hz	12 W	RAL 7035	25 m³/h	8MR6411-5LV10		_
			230 V AC, 50/60 Hz	12 W	RAL 7032	25 m³/h	8MR6423-2LV10		_
					RAL 7035	25 m³/h	8MR6423-5LV10		-
	2	125 × 125 mm	115 V AC, 50/60 Hz	20 W	RAL 7035	63 m³/h	8MR6411-5LV25	58 m³/h	8MR6511-5LV25
			230 V AC, 50/60 Hz	20 W	RAL 7032	63 m³/h	8MR6423-2LV25		_
					RAL 7035	63 m³/h	8MR6423-5LV25	58 m³/h	8MR6523-5LV25
	3	177 × 177 mm	115 V AC, 50/60 Hz	20 W	RAL 7035	115 m³/h	8MR6411-5LV30	105 m³/h	8MR6511-5LV30
			230 V AC, 50/60 Hz	20 W	RAL 7035	115 m³/h	8MR6423-5LV30	105 m³/h	8MR6523-5LV30
	4	223 × 223 mm	115 V AC, 50/60 Hz	18 W	RAL 7035	160 m³/h	8MR6411-5LV45	147 m³/h	8MR6511-5LV45
				43 W	RAL 7035	250 m³/h	8MR6411-5LV41	230 m³/h	8MR6511-5LV41
			230 V AC, 50/60 Hz	18 W	RAL 7032	160 m³/h	8MR6423-2LV45		-
					RAL 7035	160 m³/h	8MR6423-5LV45	147 m³/h	8MR6523-5LV45
				45 W	RAL 7032	250 m³/h	8MR6423-2LV41		-
					RAL 7035	250 m³/h	8MR6423-5LV41	230 m³/h	8MR6423-5LV41
			24 V DC	16 W	RAL 7032	250 m³/h	8MR6402-2LV41		-
	6	292 × 292 mm	115 V AC, 50/60 Hz	64 W	RAL 7035	580 m³/h	8MR6411-5LV60	531 m³/h	8MR6511-5LV60
				115 W	RAL 7035	930 m³/h	8MR6411-5LV80	850 m³/h	8MR6511-5LV80
			230 V AC, 50/60 Hz	64 W	RAL 7032	580 m³/h	8MR6423-2LV60		-
					RAL 7035	580 m³/h	8MR6423-5LV60	531 m³/h	8MR6523-5LV60
				135 W	RAL 7035	930 m³/h	8MR6423-5LV80	850 m³/h	8MR6523-5LV80
-	EMC f	ilter fans							
	3	177 × 177 mm	115 V AC, 50/60 Hz	20 W	RAL 7035	115 m³/h	8MR6411-6LV30	105 m³/h	8MR6511-6LV30
			230 V AC, 50/60 Hz	20 W	RAL 7035	115 m³/h	8MR6423-6LV30	105 m³/h	8MR6523-6LV30
	4	223 × 223 mm	115 V AC, 50/60 Hz	18 W	RAL 7035	160 m³/h	8MR6411-6LV45	147 m³/h	8MR6511-6LV45
				43 W	RAL 7035	250 m³/h	8MR6411-6LV41	230 m³/h	8MR6511-6LV41
			230 V AC, 50/60 Hz	18 W	RAL 7035	160 m³/h	8MR6423-6LV45	147 m³/h	8MR6523-6LV45
				45 W	RAL 7035	250 m³/h	8MR6423-6LV41	230 m³/h	8MR6523-6LV41

Filter fans and outlet filters

Outlet filters without fan

							Degree of protection IP54	Degree of protection IP55
	Size	Cutout	External dimensions W x H	Mounting depth	Cover grille height	Color	Article No.	Article No.
-	Standa	rd outlet filters						
	1	92 × 92 mm	105 × 105 mm	12 mm	4.5 mm	RAL 7032	8MR6400-2GV10	-
						RAL 7035	8MR6400-5GV10	-
	2	125 × 125 mm	148 × 148 mm	23 mm	5.5 mm	RAL 7032	8MR6400-2GV25	-
						RAL 7035	8MR6400-5GV25	8MR6500-5GV25
	3	177 × 177 mm	204 × 204 mm	26 mm	6 mm	RAL 7035	8MR6400-5GV30	8MR6500-5GV30
	4	223 × 223 mm	250 × 250 mm	32 mm	6 mm	RAL 7032	8MR6400-2GV45	-
						RAL 7035	8MR6400-5GV45	8MR6500-5GV45
	6	292 × 292 mm	323 × 323 mm	33 mm	6.5 mm	RAL 7032	8MR6400-2GV67	-
						RAL 7035	8MR6400-5GV67	8MR6500-5GV67
100	EMC ou	itlet filters						
	3	177 × 177 mm	204 × 204 mm	26 mm	6 mm	RAL 7035	8MR6400-6GV30	8MR6500-6GV30
	4	223 × 223 mm	250 × 250 mm	32 mm	6 mm	RAL 7035	8MR6400-6GV45	8MR6500-6GV45

Filter mats for filter fans and outlet filters

	Degree of pr IP54	Degree of protection IP54		rotection
Size	Dimensions W x H	Article No.	Dimensions W x H	Article No.
Standard filter mats				
1	92 × 92 mm	8MR6000-0AM10		-
2	125 × 125 mm	8MR6000-0AM25	116 × 116 mm	8MR6000-0CF25
3	177 × 177 mm	8MR6000-0AM30	169 × 169 mm	8MR6000-0CF30
4	223 × 223 mm	8MR6000-0AM45	215 × 215 mm	8MR6000-0CF45
6	292 × 292 mm	8MR6000-0AM67	281 × 281 mm	8MR6000-0CF67

Roof filter fans and roof outlet filters

Roof filter fans

					Degree of protection IP44	Degree of protection IP54
	Air current, free-blowing at 50 Hz	External dimensions W x H x D	Voltage	Input rating	Article No.	Article No.
	For cutout 223 × 223 mm,	color RAL 7035				
	71 m³/h	287 × 287 × 104 mm	230 V AC, 50/60 Hz	40 W	-	8MR6423-5VL44
-			115 V AC, 50/60 Hz	48 W	_	8MR6411-5VL44
			24 V DC	8.8 W	_	8MR6402-5VL44
	240 m³/h	287 × 287 × 174 mm	230 V AC, 50/60 Hz	45 W	-	8MR6423-5VL41
			115 V AC, 50/60 Hz	43 W	-	8MR6411-5VL41
			24 V DC	16 W	-	8MR6402-5VL41
	300 m³/h	287 × 287 × 174 mm	230 V AC, 50/60 Hz	45 W	-	8MR6423-5VL55
	For cutout 292 × 292 mm,	color RAL 7035				
	232 m³/h	361 × 361 × 114 mm	230 V AC, 50/60 Hz	68 W	-	8MR6423-5VL64
			115 V AC, 50/60 Hz	68 W	-	8MR6411-5VL64
			24 V DC	14 W	-	8MR6402-5VL64
	550 m³/h	361 × 361 × 211 mm	230 V AC, 50/60 Hz	64 W	-	8MR6423-5VL60
			115 V AC, 50/60 Hz	64 W	-	8MR6411-5VL60
			24 V DC	55 W	-	8MR6402-5VL60
	840 m³/h	361 × 361 × 203 mm	230 V AC, 50/60 Hz	135 W	-	8MR6423-5VL80
			115 V AC, 50/60 Hz	115 W	-	8MR6411-5VL80
			24 V DC	105 W	-	8MR6402-5VL80
	For cutout 345 × 265 mm,	color RAL 7035				
	405 m³/h	420 × 340 × 108 mm	115 V AC, 50/60 Hz	40/45 W	8MR6311-5DL40	-
			230 V AC, 50/60 Hz	40/45 W	8MR6323-5DL40	-
	690 m³/h	420 × 340 × 108 mm	115 V AC, 50/60 Hz	100/130 W	8MR6311-5DL42	-
			230 V AC, 50/60 Hz	100/130 W	8MR6323-5DL42	-

Roof outlet filters without fan

	Degree of protection IP44	Degree of protection IP54
External dimensions W x H x D	Article No.	Article No.
For cutout 223 × 223 mm, color RAL 7035		
287 × 287 × 85 mm	-	8MR6400-5VE45
For cutout 292 × 292 mm, color RAL 7035		
361 × 361 × 96 mm	-	8MR6400-5VE67
For cutout 345 × 265 mm, color RAL 7035		
420 × 340 × 83 mm	8MR6000-5DE40	-

Air conditioners/cooling devices

For door or side mounting, degree of protection inside IP54/ outside IP34, color RAL 7035

	Cooling	Rated	Dimensions	Air capacity	/	Design	Mounting		Article No.
	capacity	power	W×H×D	Inside	Outside		Undrilled	Part	
	230 V, 50/6	i0 Hz							
	380 W	280 W	285 × 460 × 180 mm	280 m ³ /h	280 m³/h			-	8MR6423-5EG04
	640 W	400 W	360 × 606 × 212 mm	330 m³/h	570 m³/h			-	8MR6423-5EG06
	820 W	440 W	348 × 783 × 215 mm	330 m³/h	570 m³/h			-	8MR6423-5EG08
	1050 W	570 W	348 × 783 × 215 mm	570 m³/h	860 m³/h				8MR6423-5SK10
	1550 W	880 W	400 × 950 × 233 mm	570 m ³ /h	1050 m³/h				8MR6423-5SK15
	2050 W	1080 W	400 × 1265 × 236 mm	860 m³/h	1050 m³/h				8MR6423-5SK20
	400 V, 50/6	i0 Hz							
	2900 W	1220 W	500 × 1270 × 336 mm	860 m³/h	1450 m³/h			-	8MR6440-5EG30
-	3850 W	1780 W	500 × 1270 × 336 mm	1450 m³/h	1450 m³/h			-	8MR6440-5EG40
	5800 W	2340 W	600 × 2000 × 380 mm	1450 m³/h	2900 m ³ /h			-	8MR6440-5EG60
- H									

For roof mounting, degree of protection inside IP54/ outside IP34, color RAL 7035

Cooling	Rated	Dimensions	Air capacity		Design	Mounting		Article No.
capacity	power	W×H×D	Inside	Outside		Undrilled	Part	
230 V, 50/60	O Hz							
410 W	270 W	259 × 264 × 486 mm	235 m³/h	330 m³/h	•		_	8MR6423-5DE04
820 W	510 W	340 × 340 × 600 mm	330 m³/h	570 m³/h	•	•	_	8MR6423-5DE08
1150 W	550 W	401 × 415 × 567 mm	570 m³/h	1010 m ³ /h	•	•	-	8MR6423-5DE12
1550 W	810 W	401 × 415 × 567 mm	860 m³/h	1820 m³/h			_	8MR6423-5DE15
2050 W	1190 W	401 × 415 × 567 mm	1050 m³/h	1820 m³/h			-	8MR6423-5DE20
400 V, 50/60	0 Hz							
2900 W	1210 W	492 × 496 × 797 mm	860 m³/h	3410 m ³ /h	•	•	-	8MR6440-5DE30
3850 W	1630 W	492 × 496 × 797 mm	1450 m³/h	3410 m³/h	•	•	-	8MR6440-5DE40

Heat exchangers

Air/air heat exchangers, degree of protection IP54, color RAL 7035

	Thermal	Rated	Dimensions	Air capacity		Design	Mounting		Article No.
	power	power	W×H×D	Inside	Outside		Undrilled	Part	
	230 V, 50/60) Hz							
101000	36 W/K	140 W	316 × 771 × 103 mm	570 m³/h	570 m³/h	•		-	8MR6423-5ML36
	80 W/K	240 W	317 × 1260 × 148 mm	1050 m³/h	1050 m ³ /h	•	•	-	8MR6423-5ML80
•									

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Heater units

	Rated value	Rated power	Shutdown temperature	Article No.
	Heater units with PTC therm	istor, UL-approved		
	120 240 V AC/DC	15 W	-	8MR2130-1A
		30 W	-	8MR2130-3A
		45 W	-	8MR2130-4A
		60 W	-	8MR2130-6A
		75 W	-	8MR2130-7A
		100 W	-	8MR2130-0A
'		150 W	-	8MR2130-5A
	Semiconductor heater units	without thermostat, compact design	, UL-approved	
	120 240 V AC/DC	50 W	-	8MR2131-4A
		100 W	-	8MR2131-0A
		150 W		8MR2131-5A
		130 11		
		150 W		
		150 11		
	Semiconductor heater units	with thermostat, compact design		
	Semiconductor heater units 120 240 V AC/DC		15 ℃	8MR2132-1A
		with thermostat, compact design	15 °C 25 °C	
		with thermostat, compact design		8MR2130-3A 8MR2130-4A 8MR2130-6A 8MR2130-7A 8MR2130-0A 8MR2130-5A 8MR2131-4A 8MR2131-0A 8MR2131-5A
		with thermostat, compact design 50 W	25 ℃	8MR2132-1A 8MR2132-1AB 8MR2132-0A
		with thermostat, compact design 50 W	25 ℃ 15 ℃	8MR2132-1A 8MR2132-1AB 8MR2132-0A 8MR2132-0AB
		with thermostat, compact design 50 W 100 W	25 ℃ 15 ℃ 25 ℃	8MR2132-1A 8MR2132-1AB 8MR2132-0A 8MR2132-0AB 8MR2132-5A
		with thermostat, compact design 50 W 100 W	25 °C 15 °C 25 °C 15 °C	8MR2132-1A 8MR2132-1AB 8MR2132-0A 8MR2132-0AB 8MR2132-5A
	120 240 V AC/DC	with thermostat, compact design 50 W 100 W	25 °C 15 °C 25 °C 15 °C	8MR2132-1A 8MR2132-1AB 8MR2132-0A 8MR2132-0AB 8MR2132-5A 8MR2132-5AB
	120 240 V AC/DC Semiconductor heater units	with thermostat, compact design 50 W 100 W 150 W	25 °C 15 °C 25 °C 15 °C 25 °C	8MR2132-1A 8MR2132-1AB 8MR2132-0A 8MR2132-0AB 8MR2132-5A 8MR2132-5AB
	120 240 V AC/DC Semiconductor heater units	with thermostat, compact design 50 W 100 W 150 W	25 °C 15 °C 25 °C 15 °C 25 °C	8MR2132-1A 8MR2132-0A 8MR2132-0A 8MR2132-0AB 8MR2132-5A 8MR2132-5AB

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Fan heaters

Fan heaters

	Version	Voltage	Continuous heat output	Parameter	Article No.
	Standard version				
. ()	Without fan	230 V AC	100 W	-	8MR2140-0A
			150 W	-	8MR2140-1A
			200 W	_	8MR2140-2A
			300 W	-	8MR2140-3A
			400 W	-	8MR2140-4A
00000	With fan	230 V AC	100 W	-	8MR2140-0B
0000			150 W	-	8MR2140-1B
			200 W	-	8MR2140-2B
			300 W	_	8MR2140-3B
			400 W	-	8MR2140-4B
	Compact fan heater				
	Without fan	230 V AC	250 W	-	8MR2122-4A
			400 W	_	8MR2122-8A
		120 V AC	250 W	-	8MR2122-4B
			400 W	-	8MR2122-8B
	With fan	24 V DC	250 W	-	8MR2122-4AB
		48 V DC	250 W	_	8MR2122-4AC
			400 W	-	8MR2122-8AA
And the second second	With integrated thern	nostat			
100 million 100 mi	For floor mounting	230 V AC	950 W	0 +60 °C	8MR2150-0A
	For wall mounting	230 V AC	950 W	0 +60 °C	8MR2150-0C
	With integrated hygro	ostat			
IIIIIIII 🚵	For floor mounting	230 V AC	950 W	65% R.H.	8MR2150-0BA
	For wall mounting	230 V AC	950 W	65% R.H.	8MR2150-0CA

Semiconductor fan heaters

	Fixing	Voltage	Continuous heat output	Version	Article No.
Musum	Fan heaters				
	Clip fixing	230 V AC	150 W	_	8MR2150-2C
			250 W	-	8MR2150-5A
			400 W	-	8MR2150-4A
Process Control of the Control of th		120 V AC	250 W	-	8MR2150-5AA
			400 W	-	8MR2150-4AA
. 0	Screw fixing	230 V AC	150 W	-	8MR2150-2D
			250 W	_	8MR2150-5B
			400 W	-	8MR2150-4B
		120 V AC	250 W	-	8MR2150-5AB
4.00			400 W	-	8MR2150-4AB
	PTC fan heaters for wall	mounting			
	Screw fixing	230 V AC	1200 W	With thermostat 0 +60 °C	8MR2150-3A
			1200 W	Without thermostat	8MR2150-3B
	Clip fixing	120 V AC	1200 W	With thermostat +32 +140 °F	8MR2151-3A
			1200 W	Without thermostat	8MR2151-3B
	PTC fan heaters for floor	mounting			
	Screw fixing	230 V AC	1200 W	With thermostat 0 +60 °C	8MR2150-2A
			1200 W	Without thermostat	8MR2150-2B
Marit 🚁	Clip fixing	120 V AC	1200 W	With thermostat +32 +140 °F	8MR2151-2A
•			1200 W	Without thermostat	8MR2151-2B

Thermostats

Adjustable thermostats

	Version	Max. switching power	Temperature range	Article No.
	Mini thermostat			
MIMMI	NC contact	250 V AC, 10 (2) A	−10 +50 °C	8MR2170-1CA
F. 8.			0 +60 °C	8MR2170-2BA
E 10 0 0 0			+20 +80 °C	8MR2170-1DA
· · ·	NO contact	250 V AC, 10 (2) A	−10 +50 °C	8MR2170-1CB
*° }			0 +60 °C	8MR2170-2BB
00			+20 +80 °C	8MR2170-1DB
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Mechanical thermostat			
manum 2	CO contact	250 V AC, 10 (4) A	+5 +60 °C	8MR2170-1A
			−20 +30 °C	8MR2170-1B
	Electronic thermostat			
	CO contact	230 V AC, 8 (1.6) A	−20 +60 °C	8MR2170-1GA
		120 V AC, 8 (1.6) A	−4 +140 °F	8MR2170-1GB
		24 V DC, 16 A	0 +60 °C	8MR2170-2A
	CO contact, integrated	230 V AC, 8 (1.6) A	−20 +60 °C	8MR2170-1GC
ann.	Twin thermostat			
and the second	NC contact and NO contact	250 V AC, 10 (2) A	0 +60 °C	8MR2170-1E
00000	NO contact and NO contact	250 V AC, 10 (2) A	0 +60 °C	8MR2170-1EA

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Thermostats

Tamper-proof thermostats

	Version	Max. switching power	Shutdown temperature	Article No.
mms	Tamper-proof thermostat			
	NC contact	250 V AC, 5 (1.6) A	15 °C	8MR2171-1BA
IIIIII			25 °C	8MR2171-2BA
NC 59'F	NO contact	250 V AC, 5 (1.6) A	35 °C	8MR2171-3BB
			50 °C	8MR2171-1BB
e e			60 °C	8MR2171-2BB
Allino anno	Twin thermostat			
	NC contact and NO contact	250 V AC, 5 (1.6) A	15 °C 50 °C (NC contact NO contact)	8MR2172-1A
15°C NO 122°F		250 V AC, 5 (1.6) A or 30 W DC	25 °C 60 °C (NC contact NO contact)	8MR2172-2A
1 8 0 0	NO contact and NO contact	250 V AC, 5 (1.6) A	50 °C 60 °C (NO contact NO contact)	8MR2172-1AB

Hygrostats, hygrotherms, switching modules

Hygrostats

	Version	Relative air humidity	Voltage	Max. switching power	Article No.
mmm	Mechanical hygrostat				
	CO contact	35 95%	230 V AC	250 V AC, 5 (0.2) A / 20 W DC	8MR2170-1C
	Electronic hygrostat				
FIRM 65%	CO contact	40 90%	230 V AC	240 V AC, 8 (1.6) A	8MR2170-1AF
			120 V AC	240 V AC, 8 (1.6) A	8MR2170-2AF
(F/R) (55%)		65%	230 V AC	240 V AC	8MR2170-1BF
•••••			120 V AC	120 V AC	8MR2170-2BF

Hygrotherms

	Version	Relative air humidity	Temperature range	Voltage	Max. switching power	Article No.
	Electronic hyg	rotherm				
9	NC contact and	50 90%	+32 +140 °F	100 240 V AC	NC contact: 120 V AC, 6 (1) A NO contact: 120 V AC, 8 (1.6) A	8MR2170-4F
0	NO contact		0 +60 °C	100 240 V AC	NC contact: 100 240 V AC, 6 (1) A NO contact: 100 240 V AC, 8 (1.6) A	8MR2170-4E

Switching modules

	Purpose	Switching capacity	Article No.
ammunu	For switching high-power DC devices	24 V DC, 16 A	8MR2180-1A
	from thermostats, hygrostats or hygrotherms	48 V DC, 16 A	8MR2180-1B

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