

Making sure power makes its way

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.



Catalog LV 10 · 10/2020

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.

© Siemens 2020

Low-Voltage Power Distribution and Electrical Installation Technology

	Introduction	1/2
Protecting	Air Circuit Breakers	1/1
	Molded Case Circuit Breakers	2/1
	Miniature Circuit Breakers	3/1
	Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs)	4/1
	Switching Devices	5/1
	Overvoltage Protection Devices	6/1
	Fuse Systems	_ 7/1
Protecting, Switching and Isolating	Switch Disconnectors	8/1
Switching and Isolating	Transfer Switching Equipment and Load Transfer Switches	9/1
Measuring and Monitoring	Measuring Devices, Power Monitoring and Digitalization Solutions	. 10/1
	Monitoring Devices	. 11/1
Distribution	Transformers, Power Supply Units and Socket Outlets	. 12/1
	Busbar Systems	. 13/1
	Terminal Blocks	14/1
	Power Distribution Boards, Motor Control Centers and Distribution Boards	. 15/1
	Busbar Trunking Systems	16/1
	System Cubicles, System Lighting and System Air-Conditioning	. 17/1
	Appendix	A/1

I

a

Α

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



All the information you	eakers for all applications	2 <i>l</i>
	eakers for all applications	2/
Quick selection guide		21
	Switching devices and accessories	2/
	3VA1 switching devices up to 1000 A	2/
	3VA2 switching devices up to 1600 A	2/1
	Trip units	2/1
	Online configurator highlights	2/1
3VA10 – 3VA26		2/2
	System overview	2/2
	Structure of the article numbers	2/2
	Internal accessories	2/2
	Manual operators	2/2
	Motor operators	2/3
	Connection technology	2/3
	Plug-in and draw-out technology	2/5
	Residual current devices RCD	2/5
	Communication	2/5
	Locking, blocking and interlocking	2/6
	Cover frame and mounting	2/6
3VA27		2/6
	System overview	2/6
	Structure of the article numbers	2/6
	Accessory options	2/7
	Guide frame	2/7
	Electronic trip unit ETU and accessories	2/7
	Accessories for connection and insulation	2/7
	Motor operators and manual operators	2/7
	Auxiliary release, closing coil	217
	Locking devices and interlocks	2/8
3VL		2/8
	3VL up to 1600 A, IEC	2/8
	3.1 00 00 .003747120	210

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



Our video range

Siemens YouTube channel

• 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

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

SENTRON powerconfig

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

www.siemens.com/powerconfig

Free download SENTRON powerconfig mobile via: **App Store and Play Store**



i 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)
- 3VA molded case circuit breaker (WT-LVA3VA)
- Communication with SENTRON components (LV-COM)
- · Project planning and selection of SENTRON circuit breakers (LV-CBPROJ)

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual 3VA selectivity (109743975)
- Communication manual 3VA molded case circuit breakers with IEC and UL certification (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



Technical overview - 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 ... 3VA26 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
- Rated current range of 25 to 1250 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
- Rated current range of 800 to 1600 A

Switching devices and accessories













Protective functions	3VA10	3VA11	3VA12	3VA13	3VA14	3VA15	
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	-	-			•	-	
Draw-out version	-	-			-	-	
Front rotary operator		-			•		
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	-	-	-	-	-	-	
Testing and commissioning devices	-	-	-	-	_	-	
Cover frame							
DIN rail adapter			-	-	_	-	
Busbar adapter	-	-				-	

■ Available - Not available/not present

















3VA20	3VA21	3VA22	3VA23	3VA24	3VA25	3VA26 new	3VA27
100 A	160 A	250 A	400 A	630 A	1000 A	1250 A	1600 A
-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
•		-	•	•	•		
•		-	•	•		•	
•	-	-		•		•	
•	-	-		•		•	
-	-	-		•	•	-	
-	•	-	•	•		-	•
-	•	•	•	•	•	-	•
_		-		-		-	

100 A	160 A	250 A	400 A	630 A	1000 A	1250 A	1600 A
-		-					
•		-		•		•	
	-	-				•	
	-	-		•	-	-	-
	-	-		-	-	-	
	•	-		•			
		-		•		•	
	-	-		-	-	_	-
-	-	-	-	-	-	-	-
		-			-	-	-
		-	-	-	-	-	-
-	-	-	-	-	-	-	
	-	-		•		•	
-	-	-	-	-	-	-	-
	-	-		-	-	-	-
	-	-		-			
•	•	-	•	•			
	•	-			•		
	•	-		•			
-	-	-	-	-	-	_	-
		-		•	-	-	-

3VA1 switching devices up to 1000 A

Technical data

				1								
				3VA10)		3VA11			3VA11	1	
Electrical charac	teristics according to IEC 60947-2											
Number of poles				3-/4-pole			1-pole			2-pole		
Size		Α		100			160			160		
Rated operational	current I _n at 50 °C ambient temperature	Α		16 100)		16 160)		16 160)	
	voltage U _e 50/60 Hz AC	V		690			415		415			
Rated insulation vo	oltage U _i	V		800			500			500		
	nstand voltage U _{pulse}	kV		8			8			8		
Use in IT networks		V										
Frequency		Hz		0 400			0 400			0 400		
Breaking capacit	ty (line protection)		В	N	S	N	S	М	N	S	М	
	ort-circuit breaking capacity I _{cu}											
50/60 Hz AC	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	-	-	-	-	-	-	
DC 1)	125 V	kA	16	25	30	16	25	30	16	25	30	
	250 V	kA	25	36	55	-	-	-	36	55	85	
	500 V	kA	25	36	55	_	-	-	-	-	-	
	600 V	kA	8	16	25	-	-	-	-	-	-	
	750 V	kA	-	-	-	-	-	-	-	-	-	
	1000 V ²⁾	kA	-	-	-	-	-	-	-	-	-	
Rated operationa	I short-circuit breaking capacity I _{cs}											
50/60 Hz AC	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	_	-	-	-	-	-	
DC	125 V	kA	16	25	30	16	25	30	16	25	30	
	250 V	kA	25	36	55	-	-	-	36	55	85	
	500 V	kA	25	36	55	-	-	-	-	-	-	
	600 V	kA	8	16	25	-	-	-	-	-	-	
	750 V	kA	-	-	-	-	-	-	-	-	-	
	1000 V ²⁾	kA	-	-	-	-	-	-	-	-	-	
Dimensions												
D -	A	mm	76.2 (3P) 101	.6 (4P)		25.4			50.8		
01158	В	mm		130			130			130		
B B B B B B B B B B B B B B B B B B B	С	mm		70			70			70		
Z	D	mm		88			88			88		

¹⁾ For detailed data on DC breaking capacity, number of interrupter poles and circuit diagrams, see FAQ www.siemens.com/lowvoltage/product-support (109779932) ²⁾ For I_n = 630 A/800 A

⁻ Not available/not present











		:	3VA12	2	3VA13				3VA14				3VA15					
		1-pole			3-/4-pole			3-/4	-pole			3-/4	pole			3-/4-pole		
	•	160			250			4	00			6	30			1000		
	16	160			160 25	0		320 .	400			500.	630			630 1000	0	
	(590			690			6	90			6	90			690		
	8	300			800				00				00		800			
		8			8				8		8				8			
		•			-				•				•		≤500			
				S	0 400				400			0				0 400		
N	25 36 55 7 16 25 36 5 7 7 10 7 7 7 10 7 16 25 30 3				M	Н	S	M	Н	С	S	М	Н	С	M	Н	С	
26		0.5	100		0.5	100		0.5	100	200		0.5	100	200	0.5	110	200	
			100 70	55 36	85 55	100 70	55	85 55	70	200 110	55 36	85 55	100 70	200 110	85 55	110 70	200 110	
			55	25	36	36	36 36	55	70	110	36	55	70	110	55	70	110	
			10	10	15	15	25	36	55	70	25	36	55	70	36	55	70	
			10	7	10	10	7	7	10	10	7	7	10	10	25	35	35	
			30	55	85	100	8	16	25	25	8	16	25	25	-		-	
36		85	100	55	85	100	8	16	25	25	8	16	25	25	35	- 50	100	
36		85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
16		36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-	
-	_	_	_	_	-	_	-	-	-	_	-	-	_	-	35	50	100	
	_	_	<u> </u>	_	_	_			_		_	_		_	25	35	50	
															23	33	30	
36	55	85	100	55	85	100	55	85	100	200	55	85	100	200	85	110	150	
25		55	70	36	55	70	36	55	70	110	36	55	70	110	55	70	110	
16	25	36	40	25	36	36	36	55	70	110	36	55	70	110	55	70	70	
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	
16	25	30	30	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	35	50	100	
36	55	85	100	55	85	100	8	16	25	25	8	16	25	25	35	50	100	
16	25	36	55	25	36	55	8	16	25	25	8	16	25	25	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	50	100	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	35	50	
	76.2 (3P)		1P)	105	(3P) 140	(4P)			184 (4P)			184 (4P)	210	0 (3P) 280	(4P)	
		30			158				48		248				320			
		70			70				10		110				120			
		88			88			137			137				253			

System overview, page 2/20

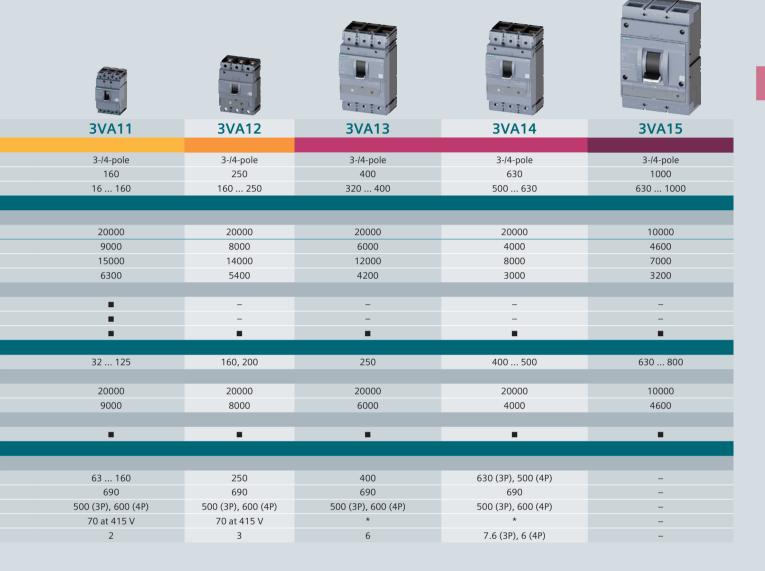
3VA1 switching devices up to 1000 A

Application

			b.		
			3VA10	3VA11	3VA11
Electrical characteristic	s according to IEC 60947-2				
Number of poles			3-/4-pole	1-pole	2-pole
Size		Α	100	160	160
Rated current I _n at 50 °C ar	mbient temperature	Α	16 100	16 160	16 160
3VA1 molded case circu	uit breakers for line protection, standard app	lication	s (IEC 60947-2)		
Service life/endurance (s	witching cycles)				
Mechanical (NO contact –	NC 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 circu	uit breakers for starter protection (IEC 60947	-4-1 staı	ndards and specifications	acc. to AC-1)	
Rated current I _n at 50 °C ar	mbient temperature	Α	-	-	-
Service life/endurance (s	witching cycles)				
Mechanical (NO contact –	NC contact)		-	-	-
Electrical	380 415 V		-	-	-
Trip Units					
TM120M	AM		-	-	-
Switch disconnectors (I	EC 60947-3)				
Electrical characteristics	according to IEC 60947-3				
Rated uninterrupted curre	nt I _u at 50 °C ambient temperature	Α	-	-	-
Rated operational voltage	U _e 50/60 Hz AC	V	-	-	-
Rated operational voltage	U _e DC	V	-	-	-
Rated conditional short-cir	cuit current I_q with upstream 3VA1 circuit breaker	kA	-	-	-
Permissible rated short-tim	ne current I _{cw} (1 s)	kA	-	-	-

■ Available — Not available/not present

* On request



System overview, page 2/20

3VA2 switching devices up to 1600 A

Technical data







				3V <i>A</i>	A20			3	VA2	1			3	VA2	2		
Electrical charac	teristics according to IEC 60947-2																
Number of poles				3-/4-	pole			3	8-/4-pol	е			3	-/4-pol	е		
Size		Α		10	00				160					250			
Rated current I _n at	50 °C ambient temperature	Α		25	. 100			2	5 16	0		160 250					
Rated operational v	voltage U _e 50/60 Hz AC	V		69	90				690			690					
Rated insulation vo	oltage U _i	V		80	00		800						800				
Rated impulse with	nstand voltage U _{pulse}	kV		8	3				8					8			
Use in IT networks	,	V															
requency		Hz		50/	160				50/60					50/60			
Breaking capacit	ty		М	Н	С	L	М	Н	С	L	Е	М	Н	С	L	E	
Rated ultimate sh	ort-circuit breaking capacity I _{cu}																
50/60 Hz AC	220 240 V	kA	85	110	150	200	85	110	150	200	-	85	110	150	200	-	
	380 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200	
	440 V	kA	55	85	110	150	55	85	110	150	-	55	85	110	150	-	
	500 V	kA	36	55	85	100	36	55	85	100	_	36	55	85	100	-	
	690 V	kA	2	2	2	25	2.5	2.5	2.5	25	85	3	3	3	25	85	
DC	125 V (1 switching pole)	kA	_	_	_	_	_	_	_	-	_	_	_	_	_	_	
	250 V (2 switching poles)	kA	_	_	_	_	_	_	_	_	_	_	_	_	_	-	
	500 V (3 switching poles)	kA	_	_	_	_	_	_	_	_	_	_	_	_	_	-	
	600 V (4 switching poles)	kA	-	-	-	-	_	-	-	-	_	-	-	-	-	-	
tated service sho	rt-circuit breaking capacity I _{cs}																
50/60 Hz AC	220 240 V	kA	85	110	150	200	85	110	150	200	_	85	110	150	200	-	
	380 415 V	kA	55	85	110	150	55	85	110	150	200	55	85	110	150	200	
	440 V	kA	55	85	110	150	55	85	110	150	_	55	85	110	150	-	
	500 V	kA	36	55	85	100	36	55	85	100	_	36	55	85	100	-	
	690 V	kA	2	2	2	18	2.5	2.5	2.5	18	65	3	3	3	18	65	
OC .	125 V (1 switching pole)	kA	_	-	-	-	_	-	-	-	_	_	-	_	_	-	
	250 V (2 switching poles)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	500 V (3 switching poles)	kA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	600 V (4 switching poles)	kA	_	-	-	_	_	-	-	-	_	-	-	_	-	-	
Dimensions																	
→ D -	A	mm	10	5 (3P)	140 (4	1P)		105 (3P) 14	0 (4P)			105 (3	3P) 14	0 (4P)		
A C C C C C C C C C C C C C C C C C C C	В	mm		18	31				181					181			
NSEO_01159	C	mm		8	6				86					86			
	D	mm		10	07				107					107			

■ Available

- Not available/not present











																	,			
		3	VA2	3			3	VA2	4			3VA25		3V	A26 ne	ew	3VA27			
		3	8-/4-pol	е			3	8-/4-pol	е			3-/4-pole			3-/4-pole			3-/4-pole		
			400					630				1000			1250			1600		
		2!	50 40	00			40	00 6	30			630 1000)		1250		8	800 1600	0	
			690					690				690			690			690		
			800					800				800			800		1000			
			8					8				8			8			8		
												≤500			≤500		•			
			50/60					50/60				50/60			50/60			50/60		
	М	Н	С	L	E	M	Н	С	L	E	M	Н	С	M	Н	С	М	Н	С	
	85	110	150	200	-	85	110	150	200	-	85	110	200	85	110	200	100	150	200	
	55	85	110	150	200	55	85	110	150	200	55	85	110	55	85	110	55	85	110	
	55	85	110	-	-	55	85	110	-	-	55	85	110	55	85	110	55	85	100	
	36	55	85	-	-	36	55	85	-	-	36	55	85	36	55	85	36	55	85	
	5	5	5	25	85	6	6	6	25	85	25	35	35	25	35	35	25	36	50	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	
	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	
	0.5	440	450	200		0.5	440	450	200		0.5	440	450	0.5	440	450	100	450	200	
	85	110	150	200	-	85	110	150	200	-	85	110	150	85	110	150	100	150	200	
	55	85	110	150	200	55	85	110	150	200	55	85	85	55	85	85	55	85	110	
	55	85	110	-	-	55	85	110	-	-	55	70	70	55	70	70	55	85	100	
	36	55	65	-	-	36	55	85	-	-	36	55	65	36	55	65	36	55	63	
	5	5	5	18	65	6	6	6	18	65	19	19	19	19	19	19	25	36	36	
	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	
	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
	-	_	-	_	_	_	-	_	_	_	_	-	-	-	-	-	-	-		
	_	_			_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	
	138 (3P) 184 (4P)						210	(3P) 280	(4P)	210	(3P) 280	(4P)	210	(3P) 280	(4P)					
	248						150 (5	248	(,		210	320	(11)	210	320	(/	210	291	(11)	
			110				110					120			120		n 183	(toggle open mechanism) (stored en ating mecha) ergy	
			137				137					253			253		225			

System overview, page 2/20

3VA2 switching devices up to 1600 A

Application







		3VA20	3VA21	3VA22	
cs according to IEC 60947-2					
-		3-/4-pole	3-/4-pole	3-/4-pole	
	Α	100	160	250	
mbient temperature	Α	25 100	25 160	160 250	
switching cycles)					
- NC contact)		25000	25000	25000	
380 415 V I _n		15000	14000	12000	
I _n /2		20000	20000	17000	
690 V		10500	9800	8400	
LI					
LIG					
ELISA LI		-			
LSI					
LSI					
LSIG					
LSI		_	_	_	
LSIG		-	_	_	
LSIG		_	-	_	
uit breakers for motor/starter pr	otection (I	IEC 60947-4-1 standards	and specifications acc. to AC-1)	
		-			
• • •		-	25000	25000	
380 415 V		-	14000	12000	
		-			
		_		-	
		_			
		_			
		_	-	_ _	
		_	_	_	
		_	_	_	
			_	_	
LSIG					
	NC contact) 380 415 V In In In/2 690 V LI LIG ELISA LI LSI LSI LSI LSIG LSIG LSIG LSIG LSIG LSIG LSIG LSIG NC contact)	mbient temperature A switching cycles) NC contact) 380 415 V In In In In II II II II II II II II II I	Section Sect	Second S	Second S











3VA23	3VA24	3VA25	3VA26 new	3VA27
3-/4-pole	3-/4-pole	3-/4-pole	3-/4-pole	3-/4-pole
400	630	1000	1250	1600
250 400	400 630	630 1000	1250	800 1600
20000	20000	10000	10000	10000
6000	5000	4600	4600	2000
12000	10000	7000	7000	-
4200	3500	3200	3200	-
•	•		•	
				-
				-
				-
				-
-	-	-	-	-
-	-	-	-	
-	-	-	-	
250	400 500	630 800	-	800 1600
20000	20000	10000	-	10000
6000	5000 (400 A)	4600	-	2000
	3000 (500 A)			
_	_			
-	•	-	-	-
	•	•	-	-
-	•	•	-	-
•	•	•	_	
-	-	-	_	•
-	-	-	_	•
-	-	-	_	•
-	-	-	-	•
-	-	-	-	•

System overview, page 2/20

Trip units

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

Trip units	Thermal-magnetic	Electronic	Electronic with display	Electronic with display and metering function
	TM240 I,/A I,/A I/A I/A I/A I/A I/A I	ETU350 LSI ACT ACT AL1 AL2 AL2	ETU550M LSI A ESC D COM D ALT	ETU860M LSIG ACT COM DACT 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 • Current values	Setting and reading the parameters • Current values • Delay times	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	24 V module for continuous power supply (also without primary
External function box			primary current through the molded case circuit breaker)	current through the molded case circuit breaker)
	-	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU	EFB300 external function box for connection to the ETU
Communication module	-	-	COM060 communication module	COM060 communication module
Breaker data server				
	-	-	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			DESCRIPTION OF THE PROPERTY OF	
	_	_	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	-		_	-
l _i fixed	_	•		-
I _N 1)	-		-	

 $^{^{1)}}$ 3VA10 only without N protection 3VA11, 3VA12, 3VA13, 3VA14 without, 50% or 100% N protection 50% N protection from $I_n\!\ge\!100$ A

Protection functions of the 3VA2 with electronic trip unit

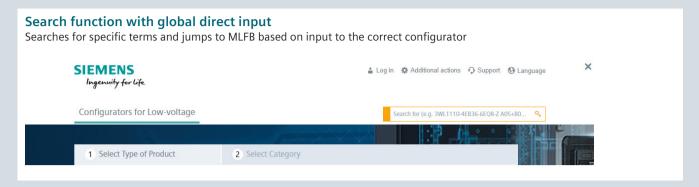
	ETU310M	ETU320	ETU330 LIG	ETU340 ELISA®	ETU350 LSI	ETU350M LSI	ETU550 LSI	ETU550M LSI	ETU560 LSIG	ETU850 LSI	ETU860 LSIG	ETU860M LSIG
Protection		LI	LIG	ELISA	LSI	L3I	L3I	L3I	LSIG	L3I	LSIG	LSIG
Starter protection		_	_	_	_	_	_	_	_	_	_	_
Motor protection		_	_	_	_		_		_	_	_	
Line protection	_					_		_				
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	I ⁴ t	l²t	l ² t	l²t	l ² t	I²t	l²t	l²t	l ² t
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}	-	-	-	-	-	-	•	-	•	•	•	-
I_i			•									
I _N 1)	-					-		-			•	-
l _g	-	-	•	-	-	-	-	-		-		
t_g at 2 × I_g	-	-	-	-	-	-	-	-		-	-	
Characteristic in G range: I ² t _g	-	-	-	-	-	-	-	-		-	-	
Characteristic in G range: selectable I ² t _g / t _g	-	-	-	-	_	-	-	-	•	-	•	•
Ground-fault alarm function	-	-	-	-	-	-	-	-	-	-	-	
Blocking protection	-	-	-	-	-	-	-	-	-	-	-	
ZSI in combination with an EFB external function box	-	•	•	•	•	•	•	•	•	•	•	•

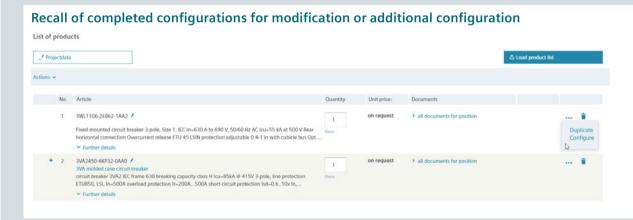
¹⁾ Available in a version with external current transformer for N conductor or 4-pole breaker

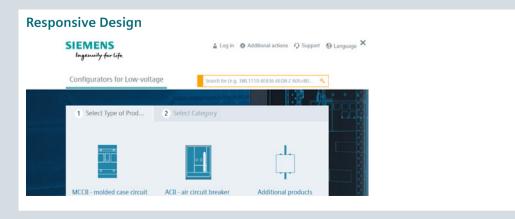
- Available for:
 Circuit breakers with ETU (4-pole)
- Circuit breakers with ETU5/ETU8 3-pole with external neutral conductor transformer or 4-pole

Online configurator highlights

www.siemens.com/lowvoltage/configurators





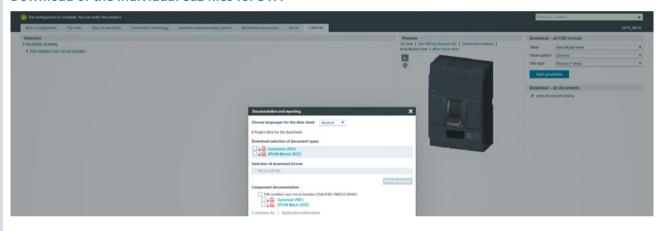


www.siemens.com/lowvoltage/3va-configurator and www.siemens.com/lowvoltage/3va27-configurator

Visualization of the internally mountable accessories (slot assignment)



Download of 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 valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

Switching devices





3VA1 for standard applications

3VA2 for selective applications

Trip units







Electronic trip unit (ETU) with display, and

Trip unit accessories



Auxiliary

connector









Thermal-magnetic trip unit (TMTU)

Electronic trip unit (ETU)

optionally with metering function

24 V module

Communica-Breaker data tion module server

display

Test device

Installation type







ಡೆಡಡ

Supplementary accessories



feedthrough





Cylinder lock

adapter



Crank

Fixed-mounted

ಠಠಠ Draw-out unit, complete kit

Plug-in unit, complete kit

Main conductor connection



Front bus

extended

connectors



Front bus



connectors offset



terminal





Nut keeper units, rightangled

Connection accessories

signaling

switch



Insulation accessories

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.

Circular conductor Box terminal

Auxiliary releases/auxiliary switches



Shunt trip



release















Short circuit alarm switch SAS Undervoltage release Auxiliary switch Tripped signaling switch Leading changeover Electrical alarm switch LCS switches EAS

Mountable accessories







Manual operator Motorized operating mechanism

Residual current device

Additional circuit breaker accessories



Mechanical interlocks







Sliding bar interlock

Interlocking with rod

Handle interlock using a Bowden cable

You will find a detailed range of accessories in the Accessories and spare parts section.

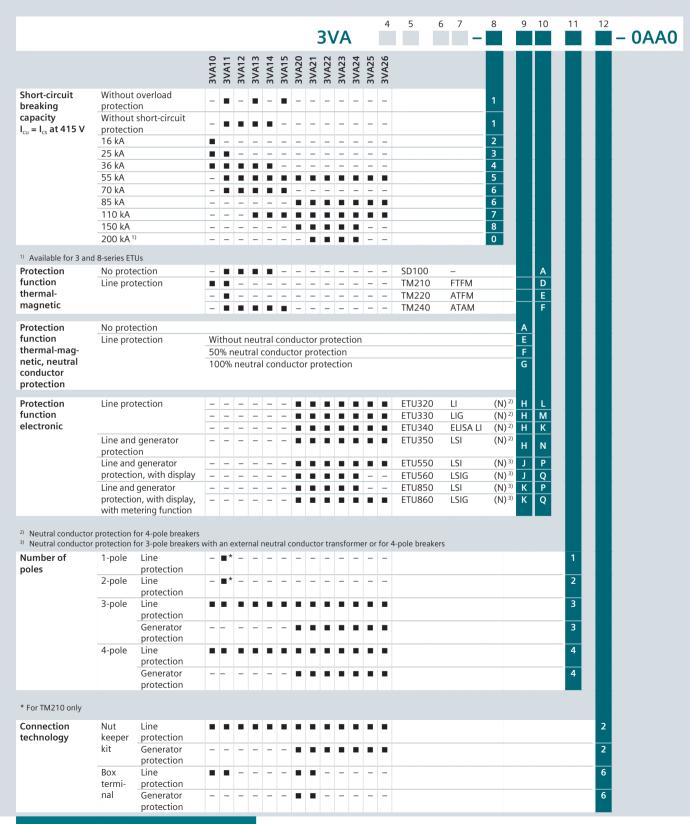
Structure of the article numbers

Basic configuration for line and generator protection

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

												3	V	Α	4	5	6	7	_ <u>`</u>	8	5 2	8 9 10	8 9 10 11
i+c	Thormal magn	otic													1								
ınits	Thermal-magn Electronic	etic													2								
			10	1	12	13	4	15	0	2 5		23	24	25	97								
			«X	3VA11	3VA12	3VA13	3VA14	3VA15	37420	3VA21	37/422	3VA23	3VA24	3VA25	3VA26								
Z)	100 A			_	_	_	_	_						_	-	0							
•	160 A		-	•	-	-	-	-	-		-		-	Ϊ-	-	1							
	250 A		-	-		-	-	-	-	-		-	_	-	-	2							
	400 A		-	-	-	•	-	-	-	-	-	•	I -	-	-	3							
	630 A		-	-	-	-	-	-	+	+-	-	-	-	H	-	- 4							
	1000 A 1250 A		_	-	-	_	-	-	Η		-		-		_	1 2 3 4 5							
x. rated	Line protection	16 A	-	-	-	-	-	-	+-	-	-	-	-	-	-		9	6					
rent I _n	protection	20 A 25 A	-		-	-	-	-			-	+	+-	-	_		2	5					
		32 A	-		-	_	-	-			-		+=	╫	-		2 3	2					
		40 A	•		-	-	-	-			ı –		-	-	-		4	0 5 2 0					
		50 A	•	•	-	-	-	-	-	-	-	- -	-	-	-		4 5	0					
		63 A	•	•	-	-	-	-	•		-	- -	-	-	-		6	3					
		80 A	-	-	-	-	-	-	H		-	-	-	_	-		8						
		100 A 125 A	-		_	_	-	-		t	-		-	-	_		1	0 2 6 0 5 2					
		160 A	-	-			-	-	+			ı -		+-	-		1	6					
		200 A	-	-		-	-	-	-	-	-		-	-	-		2	0					
		250 A	-	-		-	-	-	-	-	•		ı –	_	-		2	5					
		320 A	-	-	-	•	-	-	-	-	-	-	-	-	-		3	2					
		400 A	-	-	-	•	-	-	+-	+-	+-	-		*	-		4 5						
		500 A 630 A	-	-	-	_		_	H						_		6	0					
		800 A	-	-	-	-	Ξ	•	+		-		ī		-		8	0					
		1000 A	-	-	-	-	-		-	-	-	-	-		-		1	0 0 2 5 0					
		1250 A	-	-	-	-	-	-	Ŀ	-	-	- -	-	-			1	2					
	Generator	25 A	-	-	-	-	-	-	•		-	-	-	-	-		2	5					
	protection	40 A 63 A	-	-	-	_	-	-	H	ł	-	+-	-	-	_		6	9					
		100 A	_	_	Ε	Ξ	Ε	-	H	Ħ	-			╫	-		1	0					
		160 A	-	-	-	-	-	-	Ī	ı		ı -	-	-	-		1	6					
		250 A	-	-	-	-	-	-	-	-	•		ı –	-	-		2	6 5					
		400 A	-	-	-	-	-	-	-	-	-	•		-	-		4	0					
		500 A	-	-	-	-	-	-	-	+-	-	-	.	* -	-		5 6	0					
		630 A 800 A	-	-	-	_	-	-	+	_	_	_	-		_		8	0 0 3 0					
		1000 A		-	_	-	Е	Η	-		_	-		+=	_		1	•					
		1250 A	-	-	-	-	-	-	-		-	-	. _	T	•		1	0 2 3					
	Switch	63 A	-		-	-	-	-	-	-	-	-	-	-	-		6	3					
	disconnector	100 A	-	•	-	-	-	-	-	-	-	- -	-	-	-		1	0					
		125 A	-	•	-	-	-	-	-		-		-	+	-		1	2					
		160 A	-	•	-	-	-	-	+-	+-	+-	+-	-	-	-		1	6					
		250 A 400 A	_	-		_	-	+	+	+	+	+	-	-	_		2	0 2 6 5					
		500 A	_	-	-	-		Η					-	+=	_		5						
		630 A	_	-	_	_	-	-	+-					+=	_		5 6	0 3					

^{*} With ETU 5-series and 8-series, utilization category B only

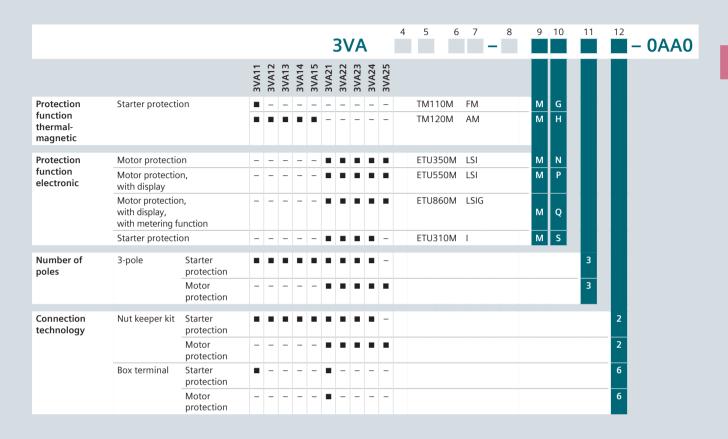


Structure of the article numbers

Basic configuration for starter and motor protection

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va-configurator

			4 5 6 7 8 9 10 11 12
			3VA — — — — — — — — — — — — — — — — — — —
Trip units	Thermal-mag	netic	1
	Electronic		
			11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
			3VA11 3VA12 3VA14 3VA24 3VA24 3VA25
Size (SZ)	160 A		
51ZE (3Z)	250 A		
	400 A		
	630 A		
	1000 A		
	100071		
Max. rated	Starter	1 A	■ 8 1
current I _n	protection	2 A	■ 0 2
		4 A	■ 0 4 ■ 0 8
		8 A	■ 0 8
		12.5 A	■ 9 2 ■ 2 0 2 5 ■ 4 0 ■ 5 0
		20 A	2 0
		25 A	2 5
		32 A	■ 3 2 ■ ■ 4 0 ■ 5 0
		40 A	4 0
		50 A	5 0
		63 A	■ ■ 6 3 ■ 8 0
		80 A	
		100 A	
		125 A	1 2
		160 A	16
		200 A	_
		250 A	u u 2
		320 A	3 2
		400 A	
		500 A	
		630 A	6 3 8 0 2 5
	Motor	800 A	8 0 1 2 5
	protection	25 A 40 A	
	protection	63 A	■ 4 0 ■ 6 3
		100 A	4 0 6 3 1 0
		160 A	
		200 A	1 6 1 2 0
		250 A	
		400 A	
		500 A	
		630 A	
		800 A	
		00071	
hort-circuit	55 kA		II <
oreaking	70 kA		
capacity cu = I _{cs} at 415 V	85 kA		
eu - ics at +15 V	110 kA		<u> 8 8 8 8 8 8 8 8 8 7 </u>
	200 kA		



Internal accessories

Auxiliary switches and alarm switches



Auxiliary releases

				3VA10		
					21/4.20	
				3VA11	3VA20	
				3VA12	3VA21	
				3VA13	3VA22	
				3VA14	3VA23	3VA25
				3VA15	3VA24	3VA26
Shunt trips left	STL					
			the molded case circuit breaker			
		rly low power consumpt able for electrical interlo				
400	Version	U _a 50/60 Hz AC	U _e DC			
	Standard	-	12 V		3VA9988-0BL10	
ur mens	Staridard	24 V	24 30 V		3VA9988-0BL30	
at L		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 flex						
	 Used for remote 		the molded case circuit breaker			
	Flexible installa					
	U _e 50/60 Hz AC	U _e DC				
24.00	24 V	-		-	3VA9988-0BA20	-
Service .	48 60 V	-		-	3VA9988-0BA21	-
	110 127 V	-		-	3VA9988-0BA22	-
	208 277 V	-		-	3VA9988-0BA23	-
	380 500 V	-		-	3VA9988-0BA24	-
	600 V	-		-	3VA9988-0BA25	-
Universal relea			I. I			
SECON		of shunt trip and underv	voltage release			
alaka .	U _e 50/60 Hz AC	U _e DC 12 V			2V40000 0DD11	
The same of the sa	_	24 V			3VA9908-0BD11 3VA9908-0BD12	
		48 V			3VA9908-0BD12 3VA9908-0BD13	
Undervoltage r	eleases LIVR	1 0 V			3773900-00013	
	 Trip the molde of a monitored 		the event that the rated voltage inimum permissible limit or fails			
	altogether	11.00				
	U _e 50/60 Hz AC	U _e DC			21/40000 00010	
		12 V			3VA9908-0BB10	
	_	24 V			3VA9908-0BB11	
	_	48 V 60 V			3VA9908-0BB12 3VA9908-0BB13	
		125 127 V			3VA9908-0BB13	
	_	220 230 V			3VA9908-0BB15	
	_	250 V			3VA9908-0BB15	
	24 V				3VA9908-0BB10	
	48 V	_			3VA9908-0BB21	
	60 V	_			3VA9908-0BB22	
	110 V	_			3VA9908-0BB23	
	120 127 V	_			3VA9908-0BB24	
	208 230 V	_			3VA9908-0BB25	
	380 400 V	_			3VA9908-0BB26	
	440 480 V	_			3VA9908-0BB27	
Time-delay dev	vices for undervoltage	ge releases				
ATTENDED TO	U _e 50/60 Hz AC	U _e DC				
2000	110 V	110 V			3VA9988-0BF21	
	230 V	230 V			3VA9988-0BF22	
0000	_	24 V			3VA9988-0BF23	

 $^{^{\}mbox{\scriptsize 1)}}\,$ In combination with TAS and AUX. For circuit diagrams, see the Operating Instructions

Manual operators

							3VA13	
						3VA20	3VA14	3VA15
				3VA10		3VA21	3VA23	3VA25
				3VA11	3VA12	3VA22	3VA24	3VA26
Front mount	ed rotary operato	rs						
	HandleFor IECDegree of proteFor 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
		With	Without	3VA9157-0EK13	3VA9257-0EK13	3VA9267-0EK13	3VA9467-0EK13	-
			With	3VA9157-0EK23	3VA9257-0EK23	3VA9267-0EK23	3VA9467-0EK23	_
1	EMERGENCY-OFF	Without	Without	3VA9157-0EK15	3VA9257-0EK15	3VA9267-0EK15	3VA9467-0EK15	3VA9687-0EK15
	(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	on				
	 Shaft 300 mm (With mounting Handle with ma (100 × 100 mm Degree of prote For 3-pole and 4 	tolerance compe sking plate 75 × for 3VA15/3VA ction IP65	nsation 75 mm					
	Version	Illumination kit	Door interlock					
4	Standard (gray)	Without	With	3VA9157-0FK21	3VA9257-0FK21	3VA9267-0FK21	3VA9467-0FK21	3VA9687-0FK21
		With	With	3VA9157-0FK23	3VA9257-0FK23	3VA9267-0FK23	3VA9467-0FK23	3VA9687-0FK23 new
7.	EMERGENCY-OFF	Without	With	3VA9157-0FK25	3VA9257-0FK25	3VA9267-0FK25	3VA9467-0FK25	3VA9687-0FK25
	(red/yellow)	With	With	3VA9157-0FK27	3VA9257-0FK27	3VA9267-0FK27	3VA9467-0FK27	3VA9687-0FK27 new
Door mounte	ed rotary operator	s without tole	rance compen	sation				
	 Shaft 300 mm (Handle with ma (100 × 100 mm) Degree of prote 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					
5	For IECDegree of proteFor 3-pole and 4	1-pole breakers	Deer					
	Version	Illumination kit	Door interlock					
	With shaft stub (gray)	-	Without	3VA9157-0GK00	3VA9257-0GK00	3VA9267-0GK00	3VA9467-0GK00	3VA9687-0GK00

							3VA13	
						3VA20	3VA14	3VA15
				3VA10		3VA21	3VA23	3VA25
				3VA11	3VA12	3VA22	3VA24	3VA26
Side wall mo	unted rotary opei	rators						
1 8	 Rotary operator Handle with ma Degree of prote For 3-pole and 4 	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-OFF	Without	Without	3VA9157-0PK15	3VA9257-0PK15	3VA9267-0PK15	3VA9467-0PK15	-
	(red/yellow)		With	3VA9157-0PK17	3VA9257-0PK17	3VA9267-0PK17	3VA9467-0PK17	-
Side wall mo	unted rotary oper	rators with mo	unting plates					
-15	 Rotary operator plate for mount Handle with ma Degree of prote For 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-OFF	With	Without	3VA9157-0PK55	3VA9257-0PK55	3VA9267-0PK55	-	-
	(red/yellow)		With	3VA9157-0PK57	3VA9257-0PK57	3VA9267-0PK57	-	-
xtended DIN	N rails for N/PE ter	rminals						
	Version	Rated curren	t					
	For mounting plate	≤250 A		3VA9987-0GL30	3VA9987-0GL30	3VA9987-0GL30	-	-
Auxiliary swi	tch modules for r	otary operatin	g mechanisms					
	Version							
(200	2× leading to "ON"			3VA9257-0GX10	3VA9257-0GX10	3VA9467-0GX10	3VA9467-0GX10	-
30.3	2× leading to "ON" 1× leading to "OFF			-	-	3VA9467-0GX20	3VA9467-0GX20	-
Mounting ad	apters for side wa	all mounted ro	tary operators					
-	Version							
(C),	Necessary accesso rotary operators, if modules are used			3VA9257-0GX01	3VA9257-0GX01	3VA9467-0GX01	-	_

System overview, page 2/20

Manual operators

						3VA13	
					3VA20	3VA14	3VA15
			3VA10		3VA21	3VA23	3VA25
			3VA11	3VA12	3VA22	3VA24	3VA26
Supplementa	ary handles for do	or mounted rotary operators					
	For operation w	hen cabinet door is open					
	Version						
	Standard (gray)		3VA9287-0GC01	3VA9287-0GC01	3VA9487-0GC01	3VA9487-0GC11	3VA9687-0GC01
	EMERGENCY-OFF (red/yellow)		3VA9287-0GC05	3VA9287-0GC05	3VA9487-0GC05	3VA9487-0GC15	3VA9687-0GC05
Handles							
	With masking p	late					
	Version	Tolerance compensation					
	Standard (gray)	With		8UD1721-0AB21		8UD1731-0AB21	8UD1741-0AB21
		Without		8UD1721-0AB11		8UD1731-0AB11	8UD1741-0AB11
	EMERGENCY-OFF	With		8UD1721-0AB25		8UD1731-0AB25	8UD1741-0AB25
	(red/yellow)	Without		8UD1721-0AB15		8UD1731-0AB15	8UD1741-0AB15
Handle exter	nsions						
		le extension is already included supply of the breakers.					
			-	-	-	3VA9487-0SC10	3VA9987-0SC10
Shafts							
	Variant	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						
	Variant	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						
	Variant						
	8 × 8 mm			8UD190	0-2HA00		-
	12 × 12 mm		-	-	-	-	8UD1900-4HA00

					3VA13	
				3VA20	3VA14	3VA15
		3VA10		3VA21	3VA23	3VA25
		3VA11	3VA12	3VA22	3VA24	3VA26
Mounting tolerance compen	sations					
Variant						
8 × 8 mm			8UD190	0-2GA00		-
12 × 12 mm		-	-	-	-	8UD1900-4GA00
Fixing brackets for shafts						
44 A						
		3VA9287	7-0GA80	3VA948	7-0GA80	3VA9687-0GA80
Variable depth adapters						
Variant						
8 × 8 mm			3VA948	7-0GB10		-

Manual operators

						3VA20	
						3VA21	
			3VA10			3VA22	
			3VA11	3VA13		3VA23	3VA25
			3VA12	3VA14	3VA15	3VA24	3VA26
Labeling plate	es for manual operators						
					3VA9087-0SX10		
Illumination	ita fau manual anavatava						_
illumination k	kits for manual operators						
	24 V DC voltage	Datad surrent					
(•	Version	Rated current	011D1000 0KA10				
X	Front rotary operator		8UD1900-0KA10	- OLID1000 OKA20	_	- OLID1000 OKA20	_
		100 630 A	-	8UD1900-0KA20 -	- OLID1000 OKA30	8UD1900-0KA20	- OLID1000 OKA30
	Door manufactured votors a november	630 1000 A			8UD1900-0KA30 8UD1900-0KA20	- RUD1000 0KA20	8UD1900-0KA30
	Door mounted rotary operator and side wall mounted rotary	100 630 A 630 1000 A	80D1900-0KA20	80D1900-0KA20	80D1900-0KA20	80D1900-0KA20	- OLID1000 OKA30
	operator	630 1000 A	_	_	_	_	8UD1900-0KA30
Cylinder locks	s (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	3	8UD1900-0PB01	8UD1900-0PB01	_	8UD1900-0PB01	-
	(in the masking plate)	4	8UD1900-0QB01	8UD1900-0QB01	_	8UD1900-0QB01	-
Cylinder locks	s (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	3	8UD1900-0PB05	8UD1900-0PB05	-	8UD1900-0PB05	-
	(in the masking plate)	4	8UD1900-0QB05	8UD1900-0QB05	-	8UD1900-0QB05	-
Cylinder locks	s (type RONIS)						
	 Includes a lock with 2 keys 						
	For locking or interlockingFor installation in all rotary or	aaratara					
0.1	For mounting in the adapter						
	accessories compartment						
	Note: The cylinder lock adapt						
	operators is also needed for linterlocking 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						
	operator (also possible with o						
a III . B	rotary operator and side wall operator)						
	Rated current						
	100 630 A		3VA9980-01 F20	3VA9980-0LF20	_	3VA9980-0LF20	_
	1000 A		-	-	3VA9680-0LF20	-	3VA9680-0LF20

2

Motor operators

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

Side mounted motor operators (MO310)



 Cover size 45 mm Addressable via Isolating features in Make time, typically Break time, typically Rated accordance with operational control signals 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)



Addressable via Isolating features in Make time, typically Break time, typically Rated control signals accordance with operational for 3VA1 for 3VA1 for 3VA2 for 3VA2 IEC/EN 60947-1 power <1000 ms (250 A), <800 ms <1000 ms (250 A), <800 ms 250 W (160 A, 250A) <1700 ms (630 A) (160 A, 250A) <1400 ms (630 A) max. 500 W (60 ms)

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 SENTRON powerconfig and SENTRON powermanager software packages.
- Note: On account of the fast switching times, the SEO520 cannot be used with a leading changeover switch LCS.



Addressable via Isolating features in Make time, typically Break time, typically Rated control signals accordance with operational for 3VA1 for 3VA2 for 3VA1 for 3VA2 IEC/EN 60947-1 power <80 ms <80 ms 300 W, max. 500 W (60 ms)

Mechanical operating cycles counters (for installation in the SEO520)



For installation in the SEO520

Article No. 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

- 1 of locking the operating mode (Mandall/Auto/Lock) of the 3LO320	
Key	Article No.
1	3VA9980-0VL10
3	3VA9980-0VL30
4	3VA9980-0VL40

				3VA20 3VA21	3VA13 3VA14 3VA23
		3VA11	3VA12	3VA22	3VA24
Rated control supply voltage	With communication				
42 60 V AC, 24 60 V DC	-	3VA9117-0HB10	-	-	-
110 230 V AC, 110 250 V DC	-	3VA9117-0HB20	-	-	-
Rated control supply voltage	With communication				
24 60 V DC	-	3VA9157-0HA10	3VA9257-0HA10	3VA9267-0HA10	3VA9467-0HA10
110 230 V AC, 110 250 V DC	-	3VA9157-0HA20	3VA9257-0HA20	3VA9267-0HA20	3VA9467-0HA20
Rated control supply voltage	With communication				
24 V DC	-	-	-	3VA9267-0HC10	-
42 60 V AC/DC	-	-	-	3VA9267-0HC20	-
110 230 V AC, 110 250 V DC	_	-	-	3VA9267-0HC30	-
24 V DC	Yes	-	-	3VA9267-0HC15	-
110 230 V AC, 110 250 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 draw-out and plug-in units

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

						3VA10
						3VA11
Box terminals						
	Conn	ection options	Scope of supply	Copper stranded		
********	0	2	3 single terminals	1.5 70 mm²		3VA9153-0JA11
(A) (B) (B)				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		-
				25 185 mm²		-
				50 185 mm²		-
				35 300 mm²		-
Nut keeper kits						
	Conn	ection options	Scope of supply	Max. tap width	Max. tap thickness	
	0	2	3 single terminals	17 mm	6.5 mm	3VA9113-0QA00
22.24.24				25 mm	8 mm	-
				35 mm	10 mm	-
			Nut keeper kit for 3-pole breakers, 1 terminal cover	50 mm	25 mm	-
	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 breakers, 1 terminal cover	50 mm	28 mm	-
Circular conducto	r termin	als, 1 cable				
	Conn	ection options	Scope of supply	Copper/aluminum stranded		
-	0	2	3 single terminals	1.5 10 mm²		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		3VA9114-0JB10
0 0 0 0				1.5 50 mm ²		-
				10 95 mm²		3VA9114-0JB11
				16 185 mm²		-
				35 185 mm²		-
				50 300 mm ²		-

Maximum current-carrying capacity of cable connection 400 A Flexible copper bar: No restrictions

²⁾ Maximum current-carrying capacity of copper cables 380 A Maximum current-carrying capacity of aluminum cables 310 A

			3VA13 3VA14	
	3VA20		3VA23	3VA15
3VA12	3VA21	3VA22	3VA24	3VA25
-	_	-	-	-
3VA9253-0JA11	3VA9163-0JA12	3VA9163-0JA12	-	-
-	3VA9263-0JA12	3VA9263-0JA12	-	-
3VA9253-0JA12	-	-	-	-
-	-	-	3VA9483-0JA13 1)	-
_	_	-	-	-
3VA9254-0JA11	3VA9164-0JA12	3VA9164-0JA12	_	_
-	3VA9264-0JA12	3VA9264-0JA12	-	-
3VA9254-0JA12	_	_	_	_
_	_	_	3VA9484-0JA13 1)	_
-	-	_	-	_
3VA9213-0QA00	3VA9203-0QA00	3VA9203-0QA00	_	_
_	_	_	3VA9403-0QA00	_
_	_	_	_	3VA9603-0QA00
-	-	-	-	-
3VA9214-0QA00	3VA9204-0QA00	3VA9204-0QA00	-	-
-	-	-	3VA9404-0QA00	-
-	-	-	-	3VA9604-0QA00
-	-	-	-	-
-	3VA9103-0JB11	-	-	-
-	-	-	-	-
-	-	3VA9263-0JB12	-	-
3VA9253-0JB12	-	-	-	-
	-	-	3VA9383-0JB13 ²⁾	-
-	-	-	-	-
-	3VA9104-0JB11	-	-	-
-	-	-	-	=
-	-	3VA9264-0JB12	-	-
3VA9254-0JB12	-	-	-	-
-	-	-	3VA9384-0JB13 ²⁾	-

System overview, page 2/20



- For mounting onto the circuit breaker
- For mounting onto draw-out and plug-in units

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

						3VA10 3VA11
ılar conducto	_		conductor terminals, 1 ca			
	Conne	ection options	Scope of supply	Copper / aluminum stranded		
	0	2	3 single terminals	1.5 10 mm ²		3VA9113-0JG10
Ta Ta		g	5 single terminals	1.5 50 mm ²		-
0.27				10 95 mm²		3VA9113-0JG11
				16 185 mm²		-
				50 185 mm²		_
				50 300 mm²		-
	0	2	4 single terminals	1.5 10 mm²		3VA9114-0JG10
រ តា តា				1.5 50 mm²		-
				10 95 mm²		3VA9114-0JG11
				16 185 mm²		-
				50 185 mm²		-
				50 300 mm²		-
ılar conducto	_					
	Conne	ection options	Scope of supply	Copper / aluminum stranded	Aux. conductor terminal	
	0	2	3 single terminals,	120 300 mm²	No	-
44			1 short terminal cover		Yes ²⁾	-
20 20						
1-1-	0	0	4 single terminals, 1 short terminal cover	120 300 mm²	No	-
Teller			i short terminal cover		Yes ²⁾	-
ılar conducto	r termina	ıls, 3 cables				
	Conne	ection options	Scope of supply	Copper / aluminum stranded	Aux. conductor terminal	
-1-1	0	2	3 single terminals,	120 185 mm²	No	-
41 es			1 short terminal cover		Yes ²⁾	-
ela Elel						
	0	2	4 single terminals, 1 short terminal cover	120 185 mm²	No 3)	-
7 6 7 6 7			i short terminar cover		Yes ²⁾	-
l'am ann du at		ala fau barrtaum	: 1- 2)			
liary conduct	Versio	als for box term	indis "			
0		mounted				3VA9110-0WB00
		n and draw-out tec	hnology			3VA9150-0WB00
liary conduct		als for busbars 2))			
	Version					
		mounted				3VA9110-0WC00
al T	Plug-ii	n and draw-out tec	hnology			3VA9150-0WC00
I						
		ty of copper cables 38				
		ty of aluminum cable ty 15 A	s 310 A			

	21/4.20		3VA13 3VA14	NAAF
	3VA20	2)// 22	3VA23	3VA15
3VA12	3VA21	3VA22	3VA24	3VA25
-	-	-	-	-
	3VA9103-0JG11	-	-	-
	-	-	-	-
-	-	3VA9263-0JG12	-	-
3VA9253-0JG12	-	-	-	-
	-	-	3VA9383-0JG13 ¹⁾	-
	21/12/24 21/24			
-	3VA9104-0JG11	-	-	-
-	-	-	-	-
3VA9254-0JG12	-	3VA9264-0JG12	-	-
5VA9254-0JG12 -	-	_ _	3VA9384-0JG13 ¹⁾	-
	_		3VA9364-0JQ13	
-	-	-	-	3VA9503-0JB23
-	-	-	-	3VA9503-0JG23
-	-	-	-	3VA9504-0JB23
-	-	-	-	3VA9504-0JG23
				2)/40502.01022
-	=	-	-	3VA9503-0JB32 3VA9503-0JG32
-	-	_	_	3VA95U3-UJG32
				21/40504 01022
_	-	-	_	3VA9504-0JB32 3VA9504-0JG32
_	_	_	_	3VA9304-0JG32
3VA9200-0WB00	3VA9200-0WB00	3VA9200-0WB00	3VA9480-0WB00	-
3VA9280-0WB00	3VA9280-0WB00	3VA9280-0WB00	3VA9480-0WB00	-
3VA9200-0WC00	3VA9200-0WC00	3VA9200-0WC00	3VA9480-0WC00	-
3VA9280-0WC00	3VA9280-0WC00	3VA9280-0WC00	3VA9480-0WC00	-



• For mounting onto the circuit breaker

For mounting onto draw-out and plug-in units

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

Note:

All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

	Number of poles	Conn	ection options	Scope of supply	Max. tap width	Max. tap thickness
7	1P	0	-	1 busbar connection	22 mm	8 mm
				piece		
4	3P	0	2	3 single terminals,	22 mm	8 mm
				2 phase barriers	32 mm	10 mm
					40 mm	12.5 mm
L.					50 mm	28 mm
e						
44	4P	0	2	4 single terminals,	22 mm	8 mm
				3 phase barriers	32 mm	10 mm
5.5					40 mm	12.5 mm
					50 mm	28 mm
nt bus conr	nectors offset					
bas com	Distance between	n pole c	enters:			
	- 100/160 A = 3					
	- 250 A = 45 m	m				
	- 400/630 A = 7					
	Number of poles	Conn	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
					80 mm	10 mm
	4P			4 single terminals	30 mm	8 mm
	4r	U	4 single terminals, 3 phase barriers		35 mm	10 mm
				5 phase barriers	60 mm	12.5 mm
				80 mm	10 mm	
888					00 111111	10 111111
connector	s edgewise					
	Number of poles	Conne	ection options	Scope of supply	Max. tap width	Max. tap thickness
4	3P	0	2	3 single terminals,	20 mm	6 mm
				2 phase barriers	25 mm	7 mm
				·	40 mm	8 mm
44	4P	0	2	4 single terminals,	20 mm	6 mm
1				3 phase barriers	25 mm	7 mm
					40 mm	8 mm
7 5						
- Loon-	in violat available					
t keeper un	its, right-angled 1)	C			Many days out day	Many days division and
4 .	Number of poles		ection options	2	Max. tap width	Max. tap thickness
	3P	0	2	3 single terminals,	22 mm	8 mm
/				2 phase barriers	32 mm	10 mm
					40 mm	12.5 mm
	AP.	•	0	A single terminals	22 mm	8 mm
	4P	0	2	4 single terminals,	22 mm	8 mm
	4P	0	0	4 single terminals, 3 phase barriers	22 mm 32 mm 40 mm	8 mm 10 mm 12.5 mm

1) Can only be connected to breaker side N, 1, 3, 5

			3VA13	
		3VA20	3VA14	
3VA10		3VA21	3VA23	3VA15
3VA11	3VA12	3VA22	3VA24	3VA25
3VA9151-0QB00	_	_	_	_
3VA3131-0000				
3VA9153-0QB00	-	-	-	-
-	3VA9253-0QB00 -	3VA9263-0QB00 -	- 3VA9483-0QB00	-
	_	_ _	- 2043462-0QB00	3VA9603-0QB00
				3 17 13 003 0 0 200
3VA9154-0QB00	-	-	-	-
-	3VA9254-0QB00	3VA9264-0QB00	-	-
-	-	-	3VA9484-0QB00	-
-	-	-	-	3VA9604-0QB00
3VA9153-0QC00	-	-	-	-
-	3VA9253-0QC00	3VA9263-0QC00	-	-
-	-	-	3VA9483-0QC00	
-	-	-	-	3VA9603-0QC00 new
3VA9154-0QC00	-	-	-	-
-	3VA9254-0QC00	3VA9264-0QC00	-	-
-	-	-	3VA9484-0QC00	-
-	-	-	-	3VA9604-0QC00 new
3VA9153-0QD00	-	-	-	-
-	3VA9253-0QD00	3VA9263-0QD00	-	-
-	-	-	3VA9483-0QD00	-
3VA9154-0QD00	_		_	_
-	3VA9254-0QD00	3VA9264-0QD00	_	-
-	- `	- `	3VA9484-0QD00	-
3VA9113-0QG00	-	-	-	-
- `	3VA9213-0QG00	3VA9223-0QG00	-	-
-	-	-	3VA9403-0QG00	-
3VA9114-0QG00	-	_	-	_
-	3VA9214-0QG00	3VA9224-0QG00	_	_
_	-	-	3VA9404-0QG00	_
			3773 104 0000	



For mounting onto the circuit breakerFor mounting onto draw-out and plug-in units

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

Note:

All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

Rear connection s	tuds flat			
	Number of poles	Conne	ction options	Scope of supply
	1P	0	2	1 short connection stud flat
				1 long connection stud flat
5 D	3P	0	2	2 short connection studs flat,
333				1 long connection stud flat
5 5	4P	0	2	2 short connection studs flat,
8888				2 long connection studs flat
Rear connection s	tuds round			
	Number of poles	Conne	ction options	Scope of supply
	1P	0	2	1 short connection stud round
				1 long connection stud round
a 🔊	3P	0	2	1 long connection stud round,
				2 short connection studs round
A	4P	0	2	2 long connection studs round,
555				2 short connection studs round

¹⁾ Can only be connected to breaker side N, 1, 3, 5

3VA10		3VA20 3VA21	3VA13 3VA14 3VA23
3VA11	3VA12	3VA22	3VA24
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



For mounting onto the circuit breakerFor mounting onto draw-out and plug-in units

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

Note:

All bus connectors extended and rear connections are Cu/Sn 6 r plated according to ISO 2093

uctor termin	ection options	Scope of supply	Number of cables	Copper/aluminum	Aux. conductor termina
Conn	ection options	Scope of Supply	Number of Cables	stranded	Aux. conductor termina
0	-	2 single terminals,	1	25 150 mm²	Yes 1)
		1 extended terminal cover,			No
		1 insulation plate	6	1.5 35 mm²	No
uctor termir	als, 3P				
Conn	ection options	Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor termina
0	-	3 single terminals,	1	25 150 mm²	Yes 1)
		1 extended terminal cover,			No
		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
				120 300 mm² new	Yes 1)
					No
			6	1.5 35 mm²	No
_	2	3 single terminals,	1	25 150 mm²	Yes 1)
J	Ŭ	1 extended terminal cover, 1 insulation plate		50 240 mm²	Yes 1)
			2	25 150 mm²	Yes 1)
				70 300 mm²	Yes 1)
			6	1.5 35 mm²	No
uctor termir	nals, 4P				
	ection options	Scope of supply	Number of cables	Copper/aluminum stranded	Aux. conductor termina
0	_	4 single terminals, 1 extended terminal cover,	1	25 150 mm²	Yes 1)
					No
		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
				120 300 mm² new	Yes 1)
					No
			6	1.5 35 mm²	No
			1	25 150 mm²	Yes 1)
	0	4 single terminals, 1 extended terminal cover		23 130 11111	. 55
-	0	4 single terminals, 1 extended terminal cover,		50 240 mm ²	Yes 1)
_	0			50 240 mm ²	Yes 1) Yes 1)
-	0	1 extended terminal cover,	2	50 240 mm ² 25 150 mm ² 70 300 mm ²	Yes 1) Yes 1) 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	_	_	_	_
3VA9112-0JJF60	_			
3VA9112-03100				
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
-	-	-	-	3VA9603-0JC44
-	-	-	-	3VA9603-0JJ44
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	_
347.5133 651 66	34713233 031 00	34713203 031 00	3777303 031 00	
3VA9114-0JC12	-	-	_	-
3VA9114-0JJ12	_	_	_	_
=	3VA9214-0JC13	3VA9224-0JC13	_	_
_	3VA9214-0JJ13	3VA9224-0JJ13	_	_
_	3VA9214-0JC22	3VA9224-0JC22	_	_
_	3VA9214-0JJ22	3VA9224-0JJ22	_	_
_	-	-	3VA9404-0JC23	_
_		_	3VA9404-0JJ23	_
	-		5VA9404-0JJ25	3VA9604-0JC43
				3VA9604-0JJ43
_				3VA9604-0JJ43 3VA9604-0JC44
	_	-	_	
	- 2VA0214 0JE60	21/40224 01560	- 2VA0204 0JEC0	3VA9604-0JJ44
3VA9114-0JF60	3VA9214-0JF60	3VA9224-0JF60	3VA9304-0JF60	-
3VA9154-0JC12	-	-	-	-
_	3VA9254-0JC13	3VA9264-0JC13	-	-
-	3VA9254-0JC22	3VA9264-0JC22	-	-
-	-	-	3VA9484-0JC23	-
3VA9154-0JF60	3VA9254-0JF60	3VA9264-0JF60	3VA9384-0JF60	-



- For mounting onto the circuit breaker
- For mounting onto draw-out and plug-in units

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

			3VA10	3VA11
pecially for fixed				
Version	Number of poles	Mounting location		
Short	1P	0 -	3VA9111-0WD10	3VA9111-0W
	2P	0 –	3VA9111-0WD20	3VA9111-0W
	3P	• -	3VA9111-0WD30	3VA9111-0W
	4P	0 -	3VA9111-0WD40	3VA9111-0W
Long new	3P	0 -	-	-
	4P	0 -	-	-
Extended 1)	2P	0 -	3VA9111-0WF20	3VA9111-0W
	3P	0 -	3VA9111-0WF30	3VA9111-0W
	4P	0 -	3VA9111-0WF40	3VA9111-0W
Broadened 1)	3P	0 -	3VA9111-0WG30	3VA9111-0W
	4P	0 -	3VA9111-0WG40	3VA9111-0W
To provide cir For mounting	-in and draw-out units cuit breaker touch prote to the molded case circ	s (spare part) ection uit breaker	_	
To provide cir For mounting	cuit breaker touch prote to the molded case circ	s (spare part)	_	
To provide cir For mounting	cuit breaker touch prote to the molded case circ	s (spare part) ection uit breaker the infeed and outgoing terminal		
To provide cirFor mountingIncluded in so	rcuit breaker touch prote to the molded case circ cope of supply: Cover for	s (spare part) ection uit breaker the infeed and outgoing terminal	3VA9113-0KB01	
To provide cirFor mountingIncluded in so Version	rcuit breaker touch prote y to the molded case circ cope of supply: Cover for Number of poles	s (spare part) oction uit breaker the infeed and outgoing terminal Mounting location	3VA9113-0KB01 3VA9114-0KB01	3VA9113-0k
To provide cirFor mountingIncluded in so Version	rcuit breaker touch prote g to the molded case circ cope of supply: Cover for Number of poles 3P 4P	s (spare part) ction uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k
To provide cir For mounting Included in so Version Short r plug-in or draw For touch pro	cuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets stection in the termination	s (spare part) cction uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k
To provide cir For mounting Included in so Version Short For plug-in or drav For touch pro of the plug-in	cuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets tection in the termination or draw-out socket	s (spare part) cotion uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k
To provide cir For mounting Included in so Version Short For plug-in or drav For touch pro of the plug-in For mounting	cuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets tection in the termination or draw-out socket gonto the plug-in or draw	s (spare part) cution uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k
To provide cir For mounting Included in so Version Short For plug-in or draw For touch pro of the plug-in For mounting Version	cuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets tection in the termination or draw-out socket gonto the plug-in or draw Number of poles	s (spare part) cution uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0ŀ 3VA9114-0ŀ
To provide cir For mounting Included in so Version Short For plug-in or drav For touch pro of the plug-in For mounting	recuit breaker touch prote to the molded case circ tope of supply: Cover for Number of poles 3P 4P W-out sockets tection in the termination or draw-out socket g onto the plug-in or draw Number of poles 3P	s (spare part) ection uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k 3VA9114-0k 3VA9153-0k
To provide cir For mounting Included in so Version Short For plug-in or draw For touch pro of the plug-in For mounting Version	cuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets tection in the termination or draw-out socket gonto the plug-in or draw Number of poles	s (spare part) cution uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k 3VA9114-0k 3VA9153-0k
To provide cir For mounting Included in so Version Short For plug-in or draw For touch pro of the plug-in For mounting Version	recuit breaker touch prote to the molded case circ tope of supply: Cover for Number of poles 3P 4P W-out sockets tection in the termination or draw-out socket g onto the plug-in or draw Number of poles 3P	s (spare part) ection uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k 3VA9114-0k 3VA9153-0k
To provide cir For mounting Included in so Version Short For plug-in or draw For touch pro of the plug-in For mounting Version	recuit breaker touch prote to the molded case circ tope of supply: Cover for Number of poles 3P 4P W-out sockets tection in the termination or draw-out socket g onto the plug-in or draw Number of poles 3P	s (spare part) ection uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k 3VA9114-0k 3VA9153-0k
To provide cir For mounting Included in so Version Short For touch pro of the plug-in For mounting Version Short	recuit breaker touch prote to the molded case circ tope of supply: Cover for Number of poles 3P 4P W-out sockets tection in the termination or draw-out socket g onto the plug-in or draw Number of poles 3P	s (spare part) ection uit breaker the infeed and outgoing terminal Mounting location		3VA9113-0k 3VA9114-0k 3VA9153-0k 3VA9154-0k
To provide cir For mounting Included in so Version Short For plug-in or draw For touch pro of the plug-in For mounting Version	recuit breaker touch prote to the molded case circ tope of supply: Cover for Number of poles 3P 4P W-out sockets tection in the termination or draw-out socket on the plug-in or draw Number of poles 3P 4P	s (spare part) ection uit breaker the infeed and outgoing terminal Mounting location The infeed and outgoing terminal Mounting location Mounting location Part of the infeed and outgoing terminal The infee		3VA9113-0K 3VA9114-0K 3VA9153-0K 3VA9154-0K
To provide cir For mounting Included in so Version Short For touch pro of the plug-in For mounting Version Short	recuit breaker touch prote to the molded case circ tope of supply: Cover for Number of poles 3P 4P W-out sockets tection in the termination or draw-out socket on the plug-in or draw Number of poles 3P 4P	s (spare part) cution uit breaker the infeed and outgoing terminal Mounting location The infeed and outgoing terminal Mounting location Mounting location Mounting location Part of the infeed and outgoing terminal Mounting location Part of the infeed and outgoing termi		3VA9113-0K 3VA9114-0K 3VA9153-0K 3VA9154-0K
To provide cir For mounting Included in so Version Short For touch pro of the plug-in For mounting Version Short	recuit breaker touch prote to the molded case circ tope of supply: Cover for Number of poles 3P 4P W-out sockets tection in the termination or draw-out socket y onto the plug-in or draw Number of poles 3P 4P	s (spare part) ection uit breaker the infeed and outgoing terminal Mounting location The infeed and outgoing terminal Mounting location Mounting location Part of the infeed and outgoing terminal The infee		3VA9113-0K 3VA9114-0K 3VA9153-0K 3VA9154-0K
To provide cir For mounting Included in so Version Short For touch pro of the plug-in For mounting Version Short Extended 1)	recuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets stection in the termination or draw-out socket onto the plug-in or draw Number of poles 3P 4P 3P	s (spare part) cution uit breaker the infeed and outgoing terminal Mounting location T T On area W-out socket Mounting location P Q P P P P P P P P P P P		3VA9113-0K 3VA9114-0K 3VA9153-0K 3VA9154-0K 3VA9154-0K
To provide cir For mounting Included in so Version Short For touch pro of the plug-in For mounting Version Short	cuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets tection in the termination or draw-out socket g onto the plug-in or draw Number of poles 3P 4P 3P	s (spare part) cution uit breaker the infeed and outgoing terminal Mounting location The property of the infeed and outgoing terminal Mounting location The property of the infeed and outgoing terminal Mounting location The property of the infeed and outgoing terminal The property of the i		3VA9113-0K 3VA9114-0K 3VA9153-0K 3VA9154-0K 3VA9154-0K 3VA9153-0K
To provide cir For mounting Included in so Version Short For touch pro of the plug-in For mounting Version Short Extended 1)	recuit breaker touch prote to the molded case circ cope of supply: Cover for Number of poles 3P 4P w-out sockets stection in the termination or draw-out socket onto the plug-in or draw Number of poles 3P 4P 3P	s (spare part) cution uit breaker the infeed and outgoing terminal Mounting location T T On area W-out socket Mounting location P Q P P P P P P P P P P P		3VA9113-0K 3VA9114-0K 3VA9153-0K 3VA9154-0K 3VA9154-0K 3VA9154-0K 3VA9154-0K

Including insulating plate
 Suitable for circular conductor terminals 2/4 cables

		3VA13	
	3VA20	3VA14	
	3VA21	3VA23	3VA15
3VA12	3VA22	3VA24	3VA25
-	-	-	-
_	-	-	-
3VA9211-0WD30	3VA9221-0WD30	3VA9481-0WD30	3VA9601-0WD30
3VA9211-0WD40	3VA9221-0WD40	3VA9481-0WD40	3VA9601-0WD40
-	-	_	3VA9601-0WF30
-	_	-	3VA9601-0WF40
-	-	-	-
3VA9211-0WF30	3VA9221-0WF30	3VA9481-0WF30	3VA9601-0WE30 ²⁾ new
3VA9211-0WF40	3VA9221-0WF40	3VA9481-0WF40	3VA9601-0WE40 ²⁾ new
3VA9211-0WG30	3VA9221-0WG30	3VA9401-0WG30	-
3VA9211-0WG40	3VA9221-0WG40	3VA9401-0WG40	-
3VA9213-0KB01	3VA9123-0KB01	3VA9353-0KB01	-
3VA9214-0KB01	3VA9124-0KB01	3VA9354-0KB01	-
3VA9253-0KB03	3VA9163-0KB03	3VA9353-0KB03	-
3VA9254-0KB03	3VA9164-0KB03	3VA9354-0KB03	-
3VA9253-0KB04	3VA9163-0KB04	3VA9353-0KB04	-
3VA9254-0KB04	3VA9164-0KB04	3VA9354-0KB04	-
3VA9253-0KB05	3VA9163-0KB05	3VA9353-0KB05	-
3VA9254-0KB05	3VA9164-0KB05	3VA9354-0KB05	-

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

				3VA10	3VA11
Insulating plate	S				
	Version	Number of poles	Mounting location		
	Standard	2P	• -	3VA9111-0WJ20	3VA9111-0WJ20
		3P	0 -	3VA9111-0WJ30	3VA9111-0WJ30
		4P	0 -	3VA9111-0WJ40	3VA9111-0WJ40
	Broadened	3P	0 -	3VA9111-0WK30	3VA9111-0WK30
		4P	0 -	3VA9111-0WK40	3VA9111-0WK40
Phase barriers (fixed mounting, plug-	in and draw-out unit	s)		
44	Scope of supply				
	2 phase barriers			3VA915.	2-0WA00
DC insulation pl	ates for 3VA1 for fixe	d-mounted molded o	ase circuit breakers		
	Number of poles				
	3P			3VA911	3-0SG10
	4P			3VA911	4-0SG10
Side plates for 3	3VA1 for fixed-mount	ed molded case circu	iit breakers		
1	Number of poles	Mounting			
η π	2P	On 2-pole molded ca	ase circuit breakers	3VA911	2-0SG20

		3VA13		
	3VA20	3VA14		
	3VA21	3VA23	3VA15	
3VA12	3VA22	3VA24	3VA25	3VA26
-	-	-	-	-
3VA9211-0WJ30	3VA9221-0WJ30	3VA9481-0WJ30	-	-
3VA9211-0WJ40	3VA9221-0WJ40	3VA9481-0WJ40	-	-
3VA9211-0WK30	3VA9221-0WK30	3VA9481-0WK30	-	-
3VA9211-0WK40	3VA9221-0WK40	3VA9481-0WK40	-	-
3VA9252-0WA00	3VA9262-0WA00	3VA9482-0WA00	3VA9602-0WA00	3VA9602-0WA00
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Plug-in and draw-out technology

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

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

					3VA13
				3VA20	3VA14
				3VA21	3VA23
		3VA11	3VA12	3VA22	3VA24
Draw-out units	, complete kits				
777	Scope of supply:				
1	Draw-out socketConversion kit				
THE PERSON NAMED IN	Mounting screw kit				
	Note: The crank handle for the				
<u> ದರದ</u>	draw-out unit must be ordered				
	separately.				
	Number of poles		21/40242 01/000	21/40422 01/000	21/40222 01/000
	3P 4P	-	3VA9213-0KD00 3VA9214-0KD00	3VA9123-0KD00 3VA9124-0KD00	3VA9323-0KD00 3VA9324-0KD00
Draw out unite	s, conversion kits	-	3VA9214-UKDUU	3VA9124-UKDUU	3VA9324-UKDUU
Draw-out units	Scope of supply:				
A comment	Scope of supply: Screw-fastened terminal				
	covers for molded case				
P	circuit breakers				
daa	- Side panels				
	Plug-in contactsCable 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	_	3VA9213-0KD10 3VA9214-0KD10	3VA9123-0KD10 3VA9124-0KD10	3VA9323-0KD10 3VA9324-0KD10
Plug-in units, c	**		37/13214 0/0010	3W/312+ 0KD10	3VN332+ 0KD10
Tracking .	Scope of supply:				
	Plug-in base				
	 Conversion kit 				
The Control of the Co	Mounting screw kit				
ddd	Number of poles	21/40112 01/000	21/40212 0//000	21/40122 01/000	21/40222 0//002
	3P 4P	3VA9113-0KP00 3VA9114-0KP00	3VA9213-0KP00 3VA9214-0KP00	3VA9123-0KP00 3VA9124-0KP00	3VA9323-0KP00 3VA9324-0KP00
Plug-in units, c	**	3VM3114-UNFUU	3VA9214-0KF00	3VA9124-UNFUU	3VA93Z4-UKPUU
Plug-III utilits, C	Scope of supply:				
-1013	Screw-fastened terminal				
The same of the sa	covers for molded case				
DECEMBER	circuit breakers				
Bildeller	Plug-in contactsCable cages				
ជាជាជា	– 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)				
thin thinks	 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	ghs				
		-	3VA9257-0KT00	3VA9167-0KT00	3VA9367-0KT00
Autotrip plunge	ers (spare part)				
A	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	unit	
	Scope of supply		Article No.
ttr		h three special position signaling switches, connecting cables	3VA9987-0KC00
Position signaling	g switches for drav	v-out unit and plug-in unit	
			Article No.
			3VA9987-0KB00
Connecting cable			
	Purpose		Article No.
	Connection of po	osition signaling switches for communication with COM060	3VA9987-0KC10
Crank handles for			
-	Version	Scope of supply	Article No.
)	Insulated	Including crank handle holder	3VA9987-0KD81
Auxiliary circuit c			
	 Each auxiliary 	circuit connector is designed for 4 cables.	
	Version		Article No.
14	For all draw-out	units	3VA9987-0KD80
-	For all plug-in un	its	3VA9987-0KP80
Cylinder locks			
	 Scope of supp 1 lock with For locking or Note: Not for 	2 keys interlocking	
	Key	Lock number	Article No.
	1	1	3VA9980-0VL10
	3	3	3VA9980-0VL30
	4	4	3VA9980-0VL40
Cylinder lock ada	pters for draw-out	t units	
-40		authorized withdrawal or insertion of the circuit breaker into the draw-out unit r can be locked in the CONNECT, TEST and DISCONNECT positions	
	Purpose		Article No.
	For fitting a cylin side wall of the d	der lock in the right-hand Iraw-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+)

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

Residual current devices (RCD) for switch disconnectors and molded case circuit breakers • Mounted onto the side (left) Limit value of Rated voltage Sensitivity 3) Num-Type Rated Pre-alarm Tripped signal ber of residual non-tripping U_e current frequency poles response time current I_{An} RCD510 0.03 ... 5 A. 0 ... 3 s 127 ... 480 V AC 50/60 Hz 3-pole Type A 4-pole RCD310 0.03 ... 5 A. Instantaneous 127 ... 480 V AC 50/60 Hz Type A RCD510 Type A 0.03 ... 5 A. 0 ... 3 s 127 ... 480 V AC 50/60 Hz

Residual current devices (RCD) for molded case circuit breakers

	Mount	ed below (und	der trip unit)											
	Num- ber of poles	Туре	Sensitivity 3)	Rated residual response current I _{Δn}	Limit value of non-tripping time Δt	Rated voltage U _e	Fault current frequency		larm	СОМ	Tripp	ped signal	СОМ	
B-B-	3-pole	RCD520	Type A	0.03 5 A.	0 3 s	127 480 V AC	50/60 Hz	1	-	-	•	•	_	
		RCD520B 1)4)	Туре В	0.03 5 A.	0 10 s	127 690 V AC	0 100 kHz	1		-	•		-	
- 60			Type B+	0.03 0.3 A.										
Ve.		RCD820 ²⁾	Type A	0.03 30 A ⁵⁾	0 10 s	127 690 V AC	50/60 Hz	2				•		
Daniel Barre	4-pole	RCD320	Type A	0.03 5 A.	Instantaneous	127 480 V AC	50/60 Hz	1	-	-	•	•	-	
」		RCD520	Type A	0.03 5 A.	0 3 s	127 480 V AC	50/60 Hz	1	-	-	•	•	-	
		RCD520B ⁴⁾	Type B	0.03 5 A.	0 10 s	127 690 V AC	0 100 kHz	1	•	-	•	•	-	
3.5(3.4)			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)



Version For RCD310 or RCD510

Scope of supply RCR, RCR-RCD cables

- 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+
- $I_{\Delta n} = 30A$: type AC
- 6) 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.-ORS20).

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

					21/4.20			
			3VA11	3VA12	3VA20 3VA21	3VA22	3VA23	3VA24
			SVATI	3VA12	3VAZ I	3VA22	3VA23	3VA24
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	-	-	-	-

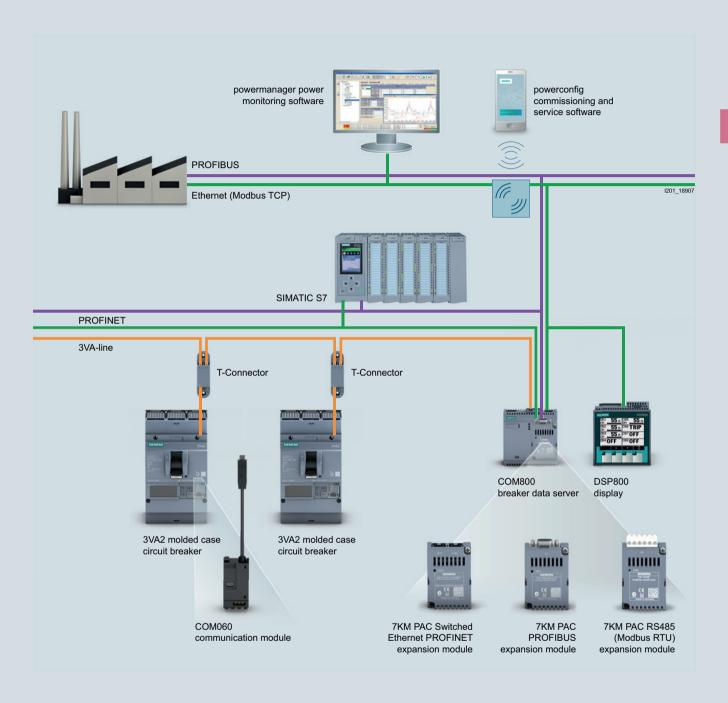
System overview, page 2/20

Communication

Metering function ¹⁾			ETU 5- series	ETU 8- series	Display in ETU	Display DSP800	Communication COM800/COM100
Current							
Phase and neutral conductor currents	Ι ₁ , Ι ₂ , Ι ₃ , Ι _Ν	Α					
Residual current to ground	I _a	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 _{Navq}	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	Eq	kVArh	-		-		
Apparent energy	E _s	kVAh	-		-		
Frequency							
Present frequency	f	Hz	-				
Maximum pointer function							
Min./max. current, voltage, power	With time stamp	-	-	-	-	-	
Condition Monitoring 2)							
Operating cycles counter	CLOSE-OPEN cycle				-	-	
Operating hours		h			-	-	
Trip counter	Differentiated by trip causes		•	•	-	-	•
Health indicator 3)	Incl. contact state	%				-	
Remaining life time 3)		Time		•	-	-	•

- □ Displayable ■ Available - Not available
- Depending on ETU version
 Only available with continuous external power supply and COM060 and COM800/100 communication interfaces
 Firmware 4.4 or higher of ETU, COM060, COM800/100 required

COM060 commun	ication modules	3VA20 3VA21 3VA22	3VA23 3VA24 3VA25
	 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			
11 11	24 V DCFor mounting in the right-hand accessories compartment of the 3VA2		
10	Purpose		
	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



System overview, page 2/20

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.

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.
7KM9300-0AE02-0AA0

7KM9300-0AB01-0AA0

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.

Interfaces to IEC 61850

Purpose: 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



SICAM CP-8021 1)	4 interfaces	6MF28021AA00

Operating voltage

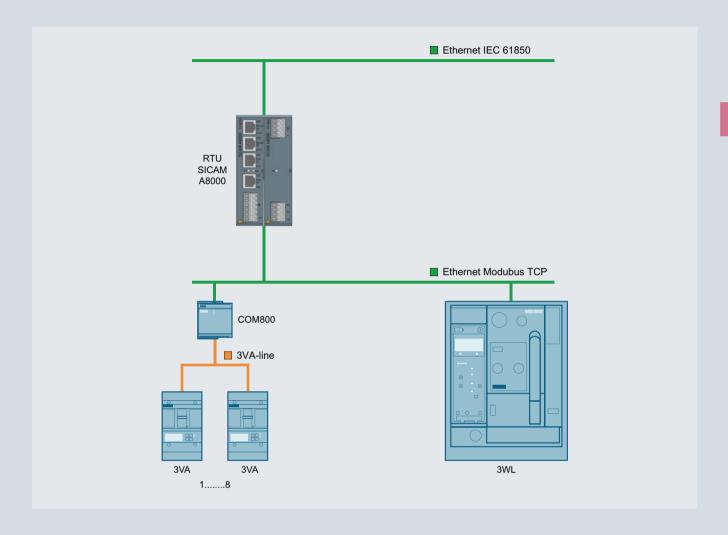


 SICAM PS-8620
 24 ... 60 V DC (12 W)
 6MF28620AA00

 SICAM PS-8622
 110 ... 220 V DC (12 W)
 6MF28622AA00

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

 $^{^{1)}}$ Dimensioned for device quantities of 8× 3VA and 1× 3W



System overview, page 2/20

Communication

Accessories for communication

T-connectors (sp	pare part)		
0- 6	Purpose		Article No.
EO	Provides a stub connection to the COM060 and lo	ops through to the next circuit breaker.	3VA9987-0TG10
DIN rail adapters	s		
1	Purpose		Article No.
mmm	For snapping the T-Connector onto a DIN rail.		3VA9987-0TG11
Prefabricated co	onnecting cables, T-connector – T-connector or T-	connector – COM800/COM100	
	Length		Article No.
	0.4 m		3VA9987-0TC10
	1 m		3VA9987-0TC20
	2 m		3VA9987-0TC30
	4 m		3VA9987-0TC40
Prefabricated co	onnecting 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 to	erminating resistors (spare part)		
(vas)	Purpose		Article No.
	For COM800 and COM060		3VA9987-0TE10
7			
Voltage tap to e	xternal N conductors (spare part)		
	Purpose		Article No.
	Cable for connection of the star point for the meter	ering function of the 8-series ETU, length 1.5 m	3VA9987-0UC10
R			
External current	transformer for N conductors		
= Lxternar carrent	Purpose	Rated current I	Article No.
2	For 3VA2 3-pole molded case circuit breakers,	25 150 A	3VA9007-0NA10
	for 5 and 8-series ETUs,	160 350 A	3VA9107-0NA10
	including connecting cables	400 630 A	3VA9307-0NA10
External current	transformers as straight-through transformers		
	Rated current I _n		Article No.
63	25 150 A		3VA9077-0NA10
. "	160 350 A		3VA9177-0NA10
	400 630 A		3VA9377-0NA10
	600 1250 A		3VA9677-0NA10
Connecting cabl	es for external current transformers for N conduc	tors (spare part)	
			Article No.
			3VA9907-0NB10
45			
1			

Display

DSP800 displays



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

3VA2 via COM800/100

- 3VA27
- 3WL10
- 3WL11-13
- PAC3200T

System overview, page 2/20

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



01 21 2300		
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				
1	Purpose	Connection	Article No.	
	For activation of the ETU and initiation of a test tripping operation	On the front interface of the ETU	3VA9987-0MA10	
TD400 test devices				
	Energy supply via batteries or the USB-C interface USB-C interface for connecting a PC with SENTRON powerconfig			
	Purpose	Connection	Article No.	

Initiation of a test tripping operation TD500 test devices

• USB interface for connecting a PC with SENTRON powerconfig

• Including external power supply

• Including connecting cable to 3VA2 molded case circuit breaker Connection

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

On the front interface of the ETU (3VA and IEC 3WL ETU release 2) 3VW9011-0AT40

External power supplies for TD500 (spare part)



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

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



Article No. 3VA9987-0MY10

Locking, blocking and interlocking

						3VA20
						3VA21
				3VA11	3VA12	3VA22
Locking						
	 The locking devices make it po in either the OFF or the ON op 		the 3VA molded case circuit breakers			
	Version	renduning positio				
	Cylinder lock Key	1 (lock numbe	er 1)		3VA9980-0VL10	
		3 (lock number			3VA9980-0VL30	
61		4 (lock numbe			3VA9980-0VL40	
	Adapter kit for mounting the cylin of the molded case circuit breake		RONIS) in the accessories compartment	3VA9157-0LF10	3VA9257-0LF10	3VA9167-0LF10
	Locking device for toggle operati	ng mechanism		3VA908	8-0LB10	3VA9388-0LB10
Interlocking						
	Using interlocking technology, molded case circuit breakers. The interlock system is design circuit breaker can be operated. The following methods of inte circuit breakers: Front interlock Rear interlock	ed to ensure th d at a time.	nat no more than one molded case			
	Version					
	Cylinder lock Key	1 (lock numbe	er 1)		3VA9980-0VL10	
	Key	3 (lock number	er 3)		3VA9980-0VL30	
0	Key	4 (lock numbe	er 4)		3VA9980-0VL40	
	Sliding bar interlock			3VA9158-0VF30	3VA9258-0VF30	3VA9168-0VF30
	Module for handle interlock using	g a Bowden cal	ble	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	
المالة المالة			Plug-in/draw-out technology		3VA9088-0VM30	
	Mounting frame for rear interlock	k with rod	Profile rails		3VA9088-0VK10	
			Mounting plate	3VA9158-0VK20	3VA9258-0VK20	3VA9268-0VK20

¹⁾ 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)

3VA14	3VA15						
3VA23	3VA25						
3VA24	3VA26	Locking					
		Locking					
		Use in	Locking in	Locking in	Front	Rear	Interlocked
			OFF position	ON position		mounting	breakers
3VA9980-0VL10	-	Breakers, motor-drive mechanisms, manual	•	•	•	_	_
3VA9980-0VL30 3VA9980-0VL40	_	operators, draw-out					
3777700-071240		technology					
3VA9367-0LF10	3VA9587-0LF10	Circuit breaker	•	•	•	-	-
3VA9388-0LB10	3VA9588-0LB10	Circuit breaker	•	•	•	-	-
		Interlocking					
		Use in	Locking in OFF position	Locking in ON position	Front mounting	Rear mounting	Interlocked breakers
3VA9980-0VL10	-	Breakers, manual	•		•	-	Unlimited
3VA9980-0VL30	_	operators					
3VA9980-0VL40	-						
3VA9980-0VL40 3VA9368-0VF30	-	Circuit breaker	-	_		_	3
	-	Circuit breaker	-	-	•	-	3
	-	Circuit breaker	-	-	•	-	3
3VA9368-0VF30			-	-		-	
	- - 3VA9587-0VF10	Circuit breaker Circuit breaker	-	-	•	-	3
3VA9368-0VF30			-	-		-	
3VA9368-0VF30			-	-		-	
3VA9368-0VF30 3VA9367-0VF10 3VA99	3VA9587-0VF10 80-0VC10		-	-		-	
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99	3VA9587-0VF10 80-0VC10 80-0VC20		-	-		-	
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99	3VA9587-0VF10 80-0VC10		-	-		-	
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99	3VA9587-0VF10 80-0VC10 80-0VC20	Circuit breaker	-	-		-	
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99 3VA99 3VA9088-0VM10	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker Circuit breaker, fixed-mounted	-	-		-	3
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99 3VA99	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker	-	-		-	3
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99 3VA99	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker Circuit breaker, fixed-mounted Plug-in/draw-out	-	-		-	3
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99 3VA99 3VA9088-0VM10 3VA9088-0VM30	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker Circuit breaker, fixed-mounted Plug-in/draw-out	-	-			3
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99 3VA9088-0VM10 3VA9088-0VM30 3VA9088-0VK10	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker Circuit breaker, fixed-mounted Plug-in/draw-out	-	-			3
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99 3VA9088-0VM10 3VA9088-0VM30 3VA9088-0VK10	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker Circuit breaker, fixed-mounted Plug-in/draw-out	-	-			3
3VA9368-0VF10 3VA9967-0VF10 3VA99 3VA99 3VA9088-0VM10 3VA9088-0VM30 3VA9088-0VK10	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker Circuit breaker, fixed-mounted Plug-in/draw-out	-				3
3VA9368-0VF30 3VA9367-0VF10 3VA99 3VA99 3VA9088-0VM10 3VA9088-0VM30 3VA9088-0VK10	3VA9587-0VF10 80-0VC10 80-0VC20 80-0VC30	Circuit breaker Circuit breaker, fixed-mounted Plug-in/draw-out	-				3

System overview, page 2/20

Cover frame and mounting

. f . u . d u		3VA10 3VA11	3VA12
	led case circuit breakers		
Number of poles	Door cut-out with trip unit		
3P	No	3VA9053-0SB10	3VA9253-0SB
	Yes	3VA9053-0SB20	3VA9253-0SB
4P	No	3VA9054-0SB10	3VA9254-0SB
	Yes	3VA9054-0SB20	3VA9254-0SB
for MO320 motor operat	ors		
Purpose			
MO320 motor opera	tor	3VA9053-0SB20	3VA9257-0SB
Motor operator with	SEO520 stored energy operator	-	-
	RCD820 residual current devices		
Number of poles			
3P		3VA9053-0SB10	3VA9253-0SB
4P		3VA9054-0SB10	3VA9254-0SB
for front mounted rotary	operators		
		3VA9053-0SB10	3VA9253-0SB
for door feedthroughs			
			3VA9253-0SB
		_	3 VA9233-03D
s for cover frame			_
		3\/A	9087-0SX10
		3471	9087-03810
IN rails for 3VA1 molded	case circuit breakers	34//	9087-05X10
DIN rails for 3VA1 molded Number of poles	case circuit breakers		9087-05X10
Number of poles 1P	l case circuit breakers	3VA9181-0SH10	-
Number of poles	l case circuit breakers		- -
Number of poles 1P	l case circuit breakers	3VA9181-0SH10	- - -
Number of poles 1P 2P 3P and 4P 3P and 4P in connect	tion with RCD310 or RCD510	3VA9181-0SH10 3VA9182-0SH10	-
Number of poles 1P 2P 3P and 4P 3P and 4P in connected wits	tion with RCD310 or RCD510	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10	-
Number of poles 1P 2P 3P and 4P 3P and 4P in connect w kits Purpose	tion with RCD310 or RCD510 Number of poles	3VA9181-05H10 3VA9182-05H10 3VA9187-05H10 3VA9187-05H20	-
Number of poles 1P 2P 3P and 4P 3P and 4P in connect w kits	tion with RCD310 or RCD510 Number of poles reakers 1P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20	- - - -
Number of poles 1P 2P 3P and 4P 3P and 4P in connect w kits Purpose	tion with RCD310 or RCD510 Number of poles reakers 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	- - - - - 6-0SS10
Number of poles 1P 2P 3P and 4P 3P and 4P in connect w kits Purpose	tion with RCD310 or RCD510 Number of poles reakers 1P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10	- - -
Number of poles 1P 2P 3P and 4P 3P and 4P in connected kits Purpose	tion with RCD310 or RCD510 Number of poles reakers 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	- - - - - 6-0SS10
Number of poles 1P 2P 3P and 4P 3P and 4P in connected with the second	tion with RCD310 or RCD510 Number of poles reakers 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	- - - - 6-0SS10 4-0SS10
Number of poles 1P 2P 3P and 4P 3P and 4P in connect w kits Purpose	tion with RCD310 or RCD510 Number of poles reakers 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	- - - - 6-0SS10 4-0SS10
Number of poles 1P 2P 3P and 4P 3P and 4P in connect w kits Purpose	tion with RCD310 or RCD510 Number of poles reakers 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 3P and 4P	3VA9181-0SH10 3VA9182-0SH10 3VA9187-0SH10 3VA9187-0SH20 3VA9111-0SS10 3VA911 - -	- - - - 6-0SS10 4-0SS10

	3VA13	
3VA20	3VA14	3VA15
3VA21	3VA23	3VA25
3VA22	3VA24	3VA26
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB10
3VA9163-0SB20	3VA9363-0SB20	3VA9503-0SB20
3VA9164-0SB10	3VA9384-0SB10	3VA9504-0SB10
3VA9164-0SB20	3VA9364-0SB20	3VA9504-0SB20
3VA9257-0SB30	3VA9387-0SB30	_
3VA9167-0SB30	-	_
347.5707 03250		
3VA9253-0SB10	3VA9303-0SB40	-
3VA9254-0SB10	3VA9304-0SB40	-
3VA9163-0SB10	3VA9383-0SB10	3VA9503-0SB50
3VA9253-0SB20	3VA9353-0SB20	-
	3VA9087-0SX10	
	3VA9007-03X10	
-	_	_
_	_	
	_	_
		_
-	-	-
-	-	-
_	-	-
3VA9126-0SS10	-	-
3VA9124-0SS10	-	-
_	3VA9328-0SS10	3VA9517-0SS10
	-	-
3VA9124-0SS10	3VA9328-0SS10	-

System overview

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

Switching devices





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

broadened



Front

extended



broadened



Cable lug P

Accessories





Motors



Spring charging motor

Accessories



Mechanical operating cycles counter (MOC)

Auxiliary releases / closing coils





Undervoltage release (UVR) / Shunt trip (ST)

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

Note:

You will find a detailed range of accessories in the Accessories and spare parts section.





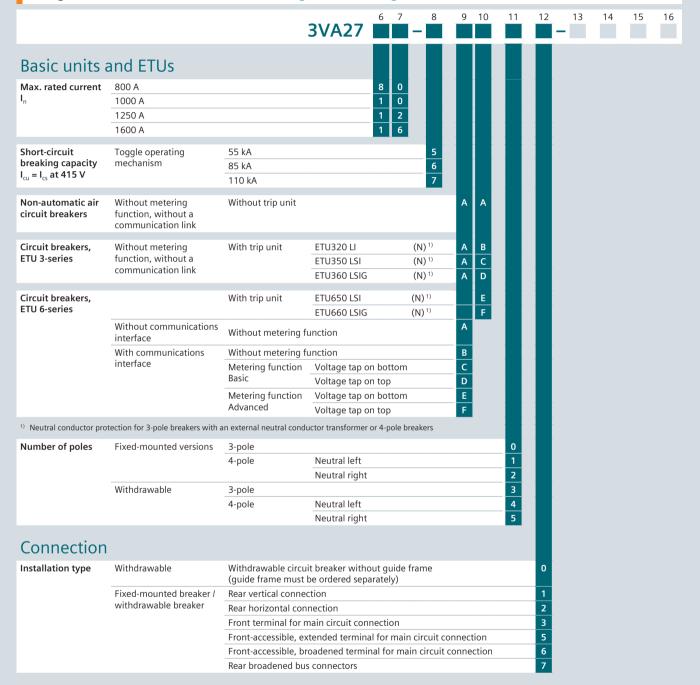
Note:

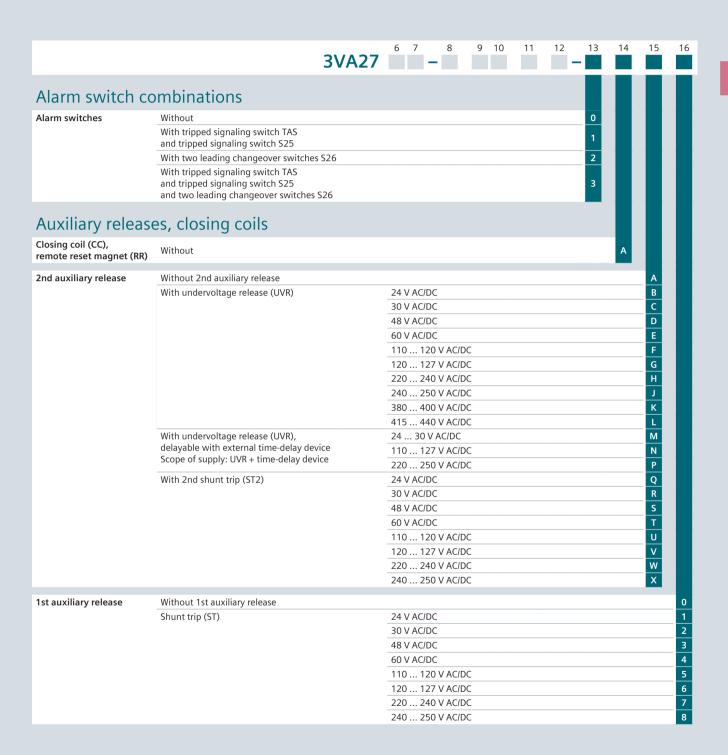
You will find a detailed range of accessories in the Accessories and spare parts section.

Structure of the article numbers

Basic configuration with toggle operating mechanism 🚄

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

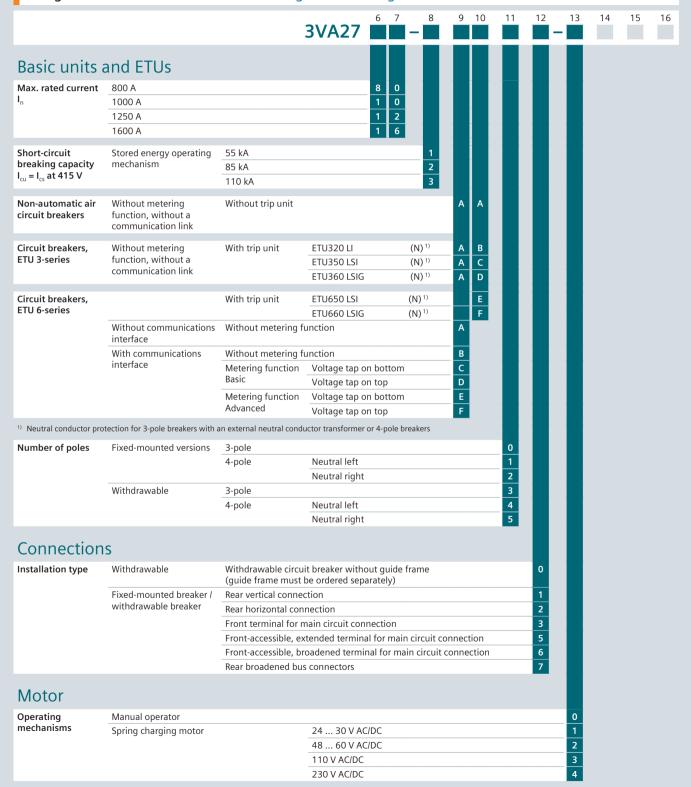




Structure of the article numbers

Basic configuration with stored energy operating mechanism ₹

The structure shown below is intended as an overview of each position and its meaning. For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator



	3VA	27 - 8 9 10 11 12 13 14	15	16
Auxiliary releas	es, closing coils, remote res	et magnets		
	<u> </u>			
Closing coil (CC), remote reset magnet (RR)	Without	A		
remote reset magnet (MI)	Closing coil (CC)	24 V AC/DC B		
		30 V AC/DC C		
		48 V AC/DC		
		60 V AC/DC		
		110 120 V AC/DC		
		120 127 V AC/DC G		
		220 240 V AC/DC		
		240 250 V AC/DC		
	Closing coil (CC) and	24 V AC/DC K		
	additional remote reset magnet (RR)	110 V AC/DC		
		220 V AC/DC		
2nd auxiliary release	Without 2nd auxiliary release		Α	
	With undervoltage release (UVR)	24 V AC/DC	A B C	
		30 V AC/DC	С	
		48 V AC/DC	D	
		60 V AC/DC	Е	
		110 120 V AC/DC	F	
		120 127 V AC/DC	G	
		220 240 V AC/DC	н	
		240 250 V AC/DC	J	
		380 400 V AC/DC	K	
		415 440 V AC/DC		
	With undervoltage release (UVR),	24 30 V AC/DC	M	
	delayable with external time-delay device	110 127 V AC/DC	N	
	Scope of supply: UVR + time-delay device	220 250 V AC/DC	P	
	With 2nd shunt trip (ST2)	24 V AC/DC		
	with zha shant the (312)	30 V AC/DC	Q R	
		48 V AC/DC	- K	
		60 V AC/DC	S	-
		110 120 V AC/DC	U	
			V	
		120 127 V AC/DC 220 240 V AC/DC	- V	
			W X	
		240 250 V AC/DC	X	
1st auxiliary release	Without 1st auxiliary release			0
	Shunt trip (ST)	24 V AC/DC		1
		30 V AC/DC		2
		48 V AC/DC		3
		60 V AC/DC		4 5 6 7
		110 120 V AC/DC		5
		120 127 V AC/DC		6
		220 240 V AC/DC		7
		240 250 V AC/DC		8

Accessory options

For a complete and valid configuration of your molded case circuit breaker, please use our online configurator at www.siemens.com/lowvoltage/3va27-configurator

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 Floor mounting Mounting support standard ∡ fixed mounting¹⁾ Mounting support extended 2) ∡ 6 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 max}). The rated current of the selected rating plug must be less than or equal to I_{n max} To downrate the circuit breaker, a rated current smaller than $I_{n \, max}$ 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 For all ETU 400 A ∡ 630 A š 8 800 A ₹ ∡ 0 1000 A ₹ 4 В 1200 A Ş 4 0 For ETU 6-series 400 A ₹ For setting the rated current I., with overload 4 protection L = OFF 0 630 A Ĭ 4 800 A Ž. 4 8 L 1000 A ₹ 4 ₹ 1250 A 4 6 <u>∡</u> 1600 A 0 **∠** For setting the rated current In, For ETU660 only 400 A For enabling the residual current protection function. G 6 0 630 A ∡ The residual current function is only possible with the G 8 800 A **₹** 0 MF Advanced metering function. G 2 1250 A **₹** ∡ 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. 0 Communication modules COM040 Modbus TCP ∡ ∡ COM041 Modbus RTU ₹ 🚄 COM043 Modbus TCP COM042 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 ₹ 4 2 I/O modules internal I/O modules internal IOM040 digital I/O module 2 inputs, 2 outputs **₹**

- $\ensuremath{\S}$ For molded case circuit breakers with stored energy operating mechanism
- $ule{2}$ 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, ad appropriate order code(s)	d "-Z" to the complete Article N .	lo. and indicate the	3VA27		Z	_	Orde	er co	ode
Accessories for n	notors						ı		
5-digit mechanical operating	cycles counter			W	_		c l	0	1
	es and signaling swit	ches				ı	ĺ		
• For currents <100 mA for PL		gnaling switches can be replaced.							
Position signaling switches for	or guide frames ¹⁾	2 CO 2 CO 2 CO (connected t	est disconnected position)	W	∡		к	5	5
Signaling switch	Ready-to-close signaling		1 CO contact digital 24 V DC	M	-		к	5	0
	Tripped signaling switch (S24)		1 CO contact digital 24 V DC	W	∡ _		К		3
	Spring charged signaling switch (S2	1)	1 CO contact digital 24 V DC	W	-		К	5	4
Auxiliary switch	On / Off AUX	4 CO contacts digital 24 V DC		W	∡		к	5	1
· ·		2 CO contacts 400 V AC, and 2 C	O contacts digital 24 V DC	W	∡		К	5	2
Locking, blocking	g and interlocking								
Locking devices 1)	To prevent movement of	Cylinder lock	Made by RONIS	W	∡ .		R	7	8
	withdrawable circuit breaker	For no more than three 8-mm pa	adlocks	W	∡		R	6	5
Locking mechanism	To prevent movement to disconnec	ted position		W	∡		R	7	9
Locking device	To prevent unauthorized activation	Cylinder lock, made by RONIS		W	-		s	0	8
	in the operator panel (safe OFF)	For no more than 3 padlocks, pla	astic 4 mm	W	-	:	s	2	2
		For no more than 1 padlock, me	tal 7 mm	W	-		s	2	3
		For no more than 2 padlocks, me	etal 8 mm	W	-		s	0	7
Padlockable protective	For mechanical ON and/or OFF on	For no more than 3 padlocks, pla	astic 4 mm	W	-		s	4	2
cover	the operator panel	For no more than 1 padlock, me	tal 7 mm	W	-		s	4	3
		For no more than 2 padlocks, me	etal 8 mm	M	-		s	4	4
Protective cover	For mechanical ON/OFF, not lockab	le		W	-		s	4	1
Door sealing frame IP30	IP3x			W	∡		т	3	0

For molded case circuit breakers with stored energy operating mechanism

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

¹⁾ Can be used both for individual orders of the guide frame and complete orders (circuit breaker + guide frame).

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 "		o. and indicate				Ord	er co	ode
the appropriate order code(s	e appropriate order code(s).							
Locking, blocking a	and interlocking							
Locking device	To prevent movement of	Cylinder lock, made by RONIS	¥	∡		R	7	8
	withdrawable circuit breaker	For no more than 3 8-mm padlocks	W	<u> </u>		R	6	5
Locking mechanism	To prevent movement to disco	nnected position (only in combination with R78 or R65)	W	∡		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)	IWW	∡		K	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 minimum load above 1 mA at 5 V DC, and
- A maximum breaking capacity of 100 mA at 24 V DC.

[₹] For molded case circuit breakers with stored energy operating mechanism

 $^{{\}color{red} {\color{red} \angle}}$ 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.
	With rotary coding switches	No	ETU320	LIN	§ 4	<u> </u>	3VW9011-5AA00
			ETU350	LSIN	¥ 4	<u><</u>	3VW9012-5AA00
			ETU360	LSING	W 4	<u><</u>	3VW9012-7AA00
7413	With display	Yes	ETU650	LSIN	¥ _	<u> </u>	3VW9017-5AA00
100			ETU660	LSING	W 4	₹	3VW9017-7AA00
Metering function	s for ETU650 or ETU660						
MUMB	Description	Protective function / version		Arrangement			Article No.
	Metering function	MF Basic		-	ž _	<u> </u>	3VW9011-0AT01
2		MF Advanced			š _	<u> </u>	3VW9011-0AT04
	Set of cables for voltage tap for MF	For 4-pole circuit breakers with N conductor right		Top or bottom	¥ _	<u> </u>	3VW9011-0AT08
		For 4-pole circuit breakers		Тор	¥ 4	<u><</u>	3VW9011-0AT75
		with N conductor left		Bottom	ž _	<u> </u>	3VW9011-0AT76
		For 3-pole circuit breakers		Тор	š _	<u> </u>	3VW9011-0AT72
				Bottom	š _	<u> </u>	3VW9011-0AT73
External current tr	ansformers for N conductor						
61110	Accessory for	Purpose			_		Article No.
	ETU320, ETU350, ETU360, ETU650, ETU660	Only for 3-pole circuit breakers			W 4	<u> </u>	3VW9011-0AA30
External current tr	ansformers for grounded tr	ansformer star points					
	Accessory for	G _{ret} (Ground return)					Article No.
	ETU660	100 A			¥ 4		3VW9011-0GF30
		250 A			WA 4	₹	3VW9011-0GF31
Summation curren		CT for residual current measureme	nt				
	Accessory for	etering function and Rc rating plug Purpose					Article No.
	ETU660	For external residual current			1 A	,	3VW9011-0RC30
	210000	measurement					30W3011-0RC30
Remote reset mag		ers including tripped signal					
		for resetting the circuit breaker after t	ripping as a resu	ult of overcurrent	condi	tions	
	Accessory for	Voltage					Article No.
	ETU320, ETU350, ETU360,	24 V DC			W -		3VW9011-0AK03
CO.	ETU650, ETU660	110 V AC/DC			§ -		3VW9011-0AK05
		250 V AC/DC			- w		3VW9011-0AK06
Replacement batte	eries for electronic trip unit	ETU					
	Accessory for						Article No.
	ETU320, ETU350, ETU360, ET	TU650, ETU660			¥ _	<u> </u>	3VW9011-0AT38

- $\ensuremath{\S}\xspace$ 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 mode	ules / rating plugs						
	Only one module is	s possible per circuit breaker.					
In =400A	Accessory for	Version		Rated current I,	n		Article No.
	ETU320, ETU350,	Rating plugs for setting (< I _{n max})		400 A	W	<u>∡</u>	3VW9011-0AA53
	ETU360, ETU650,	the rated current I _n		630 A	WW	<u>∡</u>	3VW9011-0AA55
	ETU660			800 A	W	<u>∡</u>	3VW9011-0AA56
				1000 A	W	<u>∡</u>	3VW9011-0AA57
				1250 A	WW	<u>∠</u>	3VW9011-0AA58
				1600 A	WW	<u>∡</u>	3VW9011-0AA61
	ETU 6-series	Rating plug without overload protection ($L = O$	FF)	400 A	WW	<u>∡</u>	3VW9011-0LF53
		and for setting ($<$ $I_{n max}$) the rated current I_{n}		630 A	W	<u>∡</u>	3VW9011-0LF55
				800 A	WW	<u>∡</u>	3VW9011-0LF56
				1000 A	WW	<u>∡</u>	3VW9011-0LF57
				1250 A	W	<u>∡</u>	3VW9011-0LF58
				1600 A	W	<u>∡</u>	3VW9011-0LF61
	ETU660	Rating plug Rc for ETU660 for enabling the resi		400 A	WW	<u>∠</u>	3VW9011-0RC53
		current protection function and setting ($<$ I $_{n max}$		630 A	WW	<u>∡</u>	3VW9011-0RC55
		current I _n . The residual current function is only	possible	800 A	W	<u>∡</u>	3VW9011-0RC56
		with the MF Advanced metering function.		1250 A	W	<u> </u>	3VW9011-0RC58
CB bus modules - co	ommunication modu	ıles					
	 When using a digit Can only be used v breaker. This can a 	ommunication modules can be used at the same cal I/O module IOM040 (Z option K56), only 1 cor with ETU of the 6-series and require a Breaker Cor also be configured directly on the device by mear U 6-series is selected.	nmunicatior nnect modul	e for connection	to the		
	Communication module	Protocol					Article No.
	COM040	PROFIBUS			W	<u>∡</u>	3VW9011-0AT15
	COM041	PROFINET			M	<u>∡</u>	3VW9011-0AT14
	COM043	Modbus TCP			W	∡	3VW9011-0AT16
	COM042	Modbus RTU			MM	<u>∡</u>	3VW9011-0AT17
CB bus modules - I/	O modules external	IOM300					
	• For snapping onto	standard mounting rail					
Rin	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	IWI	∡	3VW9011-0AT20
CB bus modules - I/	O modules internal I	OM040					
12	When using a digit	tal I/O module IOM040, only 1 communication m	odule can be	e used.			
	Accessory for	Maximum switching current per contact	Inputs	Outputs			Article No.
SSSSSSS	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	IWI	∡	3VW9011-0AT30

- $\ensuremath{\xi} \quad \text{For molded case circuit breakers with stored energy operating mechanism}$
- ${\color{red} \angle}$ For molded case circuit breakers with toggle 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 trip (ST). Can only be used in combination with a communication module, spring charging motor, closing coil and 1st shunt trip. 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 ş Breaker Connect modules • For external power supply for the electronics components Article No. 110 ... 240 V AC/DC **≦** <u>∠</u> 3VW9011-0AT06 24 ... 48 V DC ₹ 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) ¥ -3VW9011-0AT11 Position signaling switch COM PSS (for withdrawable breaker only) ₹ ∡ 3VW9011-0AT12 Test devices and breaker data adapters • Usable for all ETU 3-series and 6-series Description Article No. Test device TD310 **≦** <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 SENTRON powerconfig • For generation of a report of the set parameters with powerservice Test device and breaker data adapter TD420 **E** 3VW9011-0AT33 As gateway for parameterization of the ETU with SENTRON powerconfig Testing a tripping operation using SENTRON 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

Accessories for connection and insulation

						3VA27
terminals f		ections acc. to IEC 60947-2		and distance N		_
		7-2 for 3VA27 up to 1600 A (dependi eparately for top and bottom	ng on application co	onaitions)		
	Version	Description	Mounting onto	Number of poles /	quantity	Article No.
	Fixed-mounted	Front terminals for main circuit	_	3-pole / 3 units	§ 🚁	3VW9011-0AL01
10 00		connection		4-pole / 4 units	₹ ∡	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	§ <u>∡</u>	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	\$ ∡	3VW9011-0AL75
			Front terminals for main circuit connection, top/ bottom	4-pole / 4 units	¥ ∡	3VW9011-0AL74
	Withdrawable	Front-accessible terminals for	Guide frame	3-pole / 3 units	₹ <u>∡</u>	3VW9011-0AN01
		main circuit connection	flange	4-pole / 4 units	§ <u>∡</u>	3VW9011-0AN02
		Broadened main circuit	Front-accessible	3-pole / 3 units	₹ ∡	3VW9011-0AN73
5		connections	terminals for main circuit connection	4-pole / 4 units	¥ <u>∡</u>	3VW9011-0AN74
terminals fo	or main circuit conne	ctions acc. to IEC 60947-2				
		.7-2 for 3VA27 up to 1600 A (dependi	ng on application co	onditions)		
	Fixing	Version	Mounting 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	¥ <u></u>	3VW9011-0AN32
1 1		connection, rotatable for horizontal / vertical connection Including terminal cover		4-pole / 4 units	¥ <u>∡</u>	3VW9011-0AN33
1 000 c		Broadened main terminals	Rear horizontal	3-pole / 3 units	₹ ∡	3VW9011-0AN75
55.5			main connec- tions	4-pole / 4 units	₹ ∡	3VW9011-0AN76
l cable coni	nections acc. to IEC 6	0947-2				
		7-2 for 3VA27 up to 1600 A (dependi eparately for top and bottom	ng on application co	onditions)		
	Fixing	Version	Mounting onto	Number of poles /	quantity	Article No.
AT AT ALL	Fixed-mounted	Circular conductor terminals	Front terminals	3-pole / 3 units	₹ ∡	3VW9011-0AL71
00 00		4 x 240 mm ² for front cable connection, including insulation plate and high, extended terminal cover	for main circuit connection	4-pole / 4 units	w 🚄	3VW9011-0AL72
4.4	Withdrawable	Set of circular conductor	Rear vertical	3-pole / 3 units	₹ ∡	3VW9011-0AN71
15 13		connection pieces 4 x 240 mm ² for cable lugs for rear cable	main connections	4-pole / 4 units	 	3VW9011-0AN72

- **₹** 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 ₹ 🚣 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 **≦** ∡ 3VW9723-0WD30 4-pole / 2 units 4 3VW9724-0WD40 ₹ 3VW9723-0WF30 Extended 3-pole / 2 units ₹ ∡ 4-pole / 2 units š 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) ∡ 3VW9723-0WA00 3-pole / 4 units 4-pole / 6 units 3VW9724-0WA10 š 2 š _ 3VW9723-0WA01 200 mm (extended) 3-pole / 4 units 4-pole / 6 units 3VW9724-0WA11 ₹ 4 Supports for mounting the fixed-mounted breakers on the floor · For fixed-mounted versions only **Purpose** Article No. Mounting support standard ₹ 🚣 3VW9011-0BB51 (circuit breaker feet) (= Z option A07) Mounting support extended • Fixation for external auxiliary switches AUX 15 CO **≦** <u>∠</u> 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) Version **Purpose** Article No. Extension kit for side wall • Fixation for external auxiliary switches AUX 15 CO ₹ 👱 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)					
- C.	Description		Voltage			Article No.
	For automatic charging of the	he stored energy operating	24 30 V AC/[OC .	§ −	3VW9011-0AF01
	mechanism		48 60 V AC/I	OC .	¥ -	3VW9011-0AF02
			100 130 V A	C/DC	8 -	3VW9011-0AF03
			220 250 V A	C/DC	§ −	3VW9011-0AF04
Mechanical opera	ting cycles counter MOC					
	Description		Version			Article No.
00000	Only possible in combinatio motor.	n with a spring charging	5 digits		- WW	3VW9011-0AH07
Manual operators	for circuit breakers with to	ggle operating mechanisi	n			
	Description	Version	Color	Degree of protection		Article No.
	Front rotary operating	Standard	Gray	IP30	- 👱	3VW9727-0EK11
1	mechanism incl. door sealing frame	EMERCENCY-OFF	Yellow-red	IP30	- <u>4</u>	3VW9727-0EK15
	Door mounted rotary	Standard	Gray	IP30	- <u>-</u>	3VW9727-0FK21
	operator	EMERCENCY-OFF	Yellow-red	IP30	- <u>4</u>	3VW9727-0FK25
		Basic without handle		IP30	- <u>4</u>	3VW9727-0GK00
4		Shaft stub		IP30	- 🗷	8UD1900-3WD00
		Handle	Gray	IP30	- 👱	8UD1861-0AB11
			Yellow-red	IP30	- <u>4</u>	8UD1861-0AB15

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

3VA27

Auxiliary release, closing coil

Closing coils CC / shunt trips ST

Note:

- For molded case circuit breakers with stored energy operators, the products can only be used as closing coils CC
- For molded case circuit breakers with handle mechanisms, the products can be used as closing coils CC and shunt trips ST



and share trips 51.	
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 units for closing coils / shunt trips



- The TD320 test unit allows the operational availability and functions of the closing coils and shunt trips 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 trips OK

Description Article No. For all closing coils / shunt trips 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	Contacts		Article No.
Ready-to-close signal RTC	1 CO standard	X -	3VW9011-0AH01
	1 CO digital	₩ -	3VW9011-0AH02
Auxiliary switch ON/OFF AUX	4 CO standard	≦ <u>∡</u>	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	 <u>∡</u>	3VW9011-0AG06
Tripped signaling switch S24	1 CO standard	₹ ∡	3VW9011-0AH14
	1 CO digital	₹ ∡	3VW9011-0AH15
Spring charged signaling switch S21	1 CO standard	ቜ -	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 (connected test disconnected position) digital	₹ ∡	3VW9011-0AH12

- 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 **Contacts** 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 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 ₹ 🔏 3VW9011-0AG17 Undervoltage releases UVR Voltage 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 __ 3VW9011-0AE17 415 ... 440 V AC 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

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

Locking devices and interlocks

				3VA27
Locking devices to	o prevent movement of the withdrawab	le circuit breakers		
	Version			Article No.
	RONIS cylinder lock (replacement for R78)		§ ∡	3VW9011-0BA80
	Padlock 8 mm (replacement for R65), for the second		¥ <u>4</u>	3VW9011-0BA87
Locking mechanis	sms to prevent movement of the withdr	awable circuit breakers in disconnected positio	n	
	Only possible as a supplement in conju	nction with R78 (3VW9011-0BA80) and/or R65 (3VW9	9011-0BA87).	
	Description			Article No.
	Locking mechanism (replacement for R79)	¥ <u>∡</u>	3VW9011-0BA84
Locking devices in	·			
	 For fixed-mounted versions and withdr To prevent unauthorized activation in t The disconnector unit fulfills the condit 		. to EN 60204-1.	
P	Description			Article No.
	Cylinder lock, made by RONIS (replacement	nt for S08)	W -	3VW9011-0BA33
Locking devices in	1 OFF position			
	For fixed-mounted versions and withdr To prevent unauthorized activation in t The disconnector unit fulfills the condit		. to EN 60204-1.	
	Description	Version		Article No.
	Padlock 4 mm (replacement for S22)	Plastic for no more than 3 locks	₩ -	3VW9011-0BA41
	Padlock 7 mm (replacement for S23)	Metal for no more than 1 lock	₩ -	3VW9011-0BA42
	Padlock 8 mm (replacement for S07)	Metal for no more than 2 locks	W -	3VW9011-0BA44
Locking devices in	n OFF position for toggle operating mec	hanisms with rotary operators		
	To prevent unauthorized activation in t	he case of molded case circuit breakers with rotary or	perator	
	Description			Article No.
	For RONIS		- ∡	3VW9727-0VL10
Locking devices in	n OFF position for toggle operating mec	hanisms without rotary operators		
	 To prevent unauthorized activation in t molded case circuit breakers without ro 	he operator panel in the case of		
	Description			Article No.
	For padlocks		- ∡	3VW9727-0LB10
	For RONIS		- ∡	3VW9727-0LF10
Padlockable prote	ective covers ON/OFF on the operator pa	nels		
	Description	Version		Article No.
	Padlock 4 mm (replacement for S42)	Plastic for no more than 3 locks	≦ −	3VW9011-0BA22
	Padlock 7 mm (replacement for S43)	Metal for no more than 1 lock	₩ -	3VW9011-0BA23
	Padlock 8 mm (replacement for S44)	Metal for no more than 2 locks	₩ -	3VW9011-0BA24

- $\ensuremath{\mbox{\ensuremath}\ensuremath{\ensuremath{\mbox{\ensuremath}\ens$
- ∡ For molded case circuit breakers with toggle operating mechanism

Locking devices and interlocks

					3VA27
Protective cove	ers for mechanical ON/OFF				
194	Mechanical ON/OFF tNot lockable.	o protect against unintentio	nal actuation on the operator panel.		
	Description				Article No.
L.	Not lockable (replaceme	ent for S41)		∑ –	3VW9011-0BA21
Mutual mechan	nical interlocking				
E	Mutual mechanical in	terlocking with Bowden cab	le 2 m		
	Fixing	Mounting			Article No.
F. III	Fixed-mounted	Rear panel or floor mo	punting	₹ 🚣	3VW9011-0BB21
	Withdrawable	Mounting onto guide	frame	¥ <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 mecha	nisms to prevent opening	of the control cabinet do	ors in ON position		
		f the control cabinet door in ts the circuit breaker from b	ON position eing closed when the control cabinet door i	s open.	
j.	Fixing		Version		Article No.
	Fixed mounting on side	panel or floor	Direct fixed interlocking	≣ <u>∡</u>	3VW9011-0BB10
4			Locking with Bowden cable	≦ ∡	3VW9011-0BB16
	Withdrawable		Direct fixed interlocking	₹ ∡	3VW9011-0BB14
Ë			Locking with Bowden cable	§ <u>∡</u>	3VW9011-0BB18
Door sealing fra	ames IP30				
	 For IP4x and higher, y 	ou must order the protectiv	e cover IP54 3VW9011-0AP03 or 3VW9011	-0AP13.	
	Description	Fixing	Version		Article No.
	Replacement part	Fixed-mounted	IP3x	₹ ∡	3VW9011-0AP01
	for Z option T30.	Withdrawable	IP3x	₩ -	3VW9011-0AP02
				- 📥	3VW9011-0AP04
Protective cove	ers IP54				
	For implementing de-	grees of protection IP4x and	unted breakers and withdrawable breakers IP54 when installing in switchboard door. e and door mounted rotary operator.		
	Description		Version		Article No.
1	Lock with unique key		IP54	≦ <u>∡</u>	3VW9011-0AP03
	Lock with standard key		IP54	₹ ∡	3VW9011-0AP13

[₹] 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 extract.

3VL molded case circuit breaker (109769073)

Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase products (hardware, software and services) described therein from Siemens Aktienge-sellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Please note that the scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in Germany

For customers with a seat or registered office in Germany, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for installation work the "General Conditions for Erection Works – Germany"¹) ("Allgemeine Montagebedingungen – Deutschland" (currently only available in German)) and/or
- for stand-alone software products and software products forming a part of a product or project, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany"¹⁾
- for consulting services the "General Terms and Conditions for Consulting Services of the Division DF – Germany"¹⁾ and/or
- for other supplies and/or services the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾. In case such supplies and/or services should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"¹⁾, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

1.2 For customers with a seat or registered office outside Germany

For customers with a seat or registered office outside Germany, the following terms and conditions apply subordinate to T&C:

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for services the "International Terms & Conditions for Services"¹⁾ supplemented by "Software Licensing Conditions"¹⁾
- for consulting services the "General Terms and Conditions for Consulting Services of the Division DF – Germany"¹⁾ and/or
- for other supplies of hard- and software the "International Terms & Conditions for Products"¹⁾ supplemented by "Software Licensing Conditions"¹⁾

1.3 For customers with master or framework agreement

To the extent our supplies and/or services offered are covered by an existing master or framework agreement, the terms and conditions of that agreement shall apply instead of T&C.

2. Additional Terms and Conditions

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches apply only to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the individual pages of this catalog – especially with regard to data, dimensions and weights given – these are subject to change without prior notice.

3. Export Regulations

We shall not be obligated to fulfill any agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes and/or other sanctions.

Export may be subject to license. We shall indicate in the delivery details whether licenses are required under German, European and US export lists.

Our products are controlled by the U.S. Government (when labeled with "ECCN" unequal "N") and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

The export indications can be viewed in advance in the description of the respective goods on the Industry Mall, our online catalog system. Only the export labels "AL" and "ECCN" indicated on order confirmations, delivery notes and invoices are authoritative.

Products labeled with "AL" unequal "N" are subject to European / national export authorization. Products without label, with label "AL:N" / "ECCN:N", or label "AL:9X9999" / "ECCN: 9X9999" may require authorization from responsible authorities depending on the final end-use, or the destination.

If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you must comply with all applicable national and international (re-)export control regulations.

If required for the purpose of conducting export control checks, you (upon request by us) shall promptly provide us with all information pertaining to the particular end customer, final disposition and intended use of goods delivered by us respectively works and services provided by us, as well as to any export control restrictions existing in this relation.

The products listed in this catalog may be subject to European/ German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities.

Errors excepted and subject to change without prior notice.

A

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical	www.siemens.com/lowvoltage
installation technology Tender specifications	www.siemens.com/lowvoltage/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
Image database	www.siemens.com/lowvoltage/picturedb
CAx download manager	www.siemens.com/lowvoltage/cax
Newsletter system	www.siemens.com/lowvoltage/newsletter
Siemens YouTube channel	www.youtube.com/Siemens
Brochures / catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions / manuals	www.siemens.com/lowvoltage/manuals
Siemens Industry Online Support	www.siemens.com/lowvoltage/product-support
Siemens Industry Online Support app	www.siemens.com/support-app
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Siemens Industry Mall – product catalog and	www.siemens.com/industrymall
online ordering system	
Direct forwarding to the Industry Mall	www.siemens.com/product? <u>Article No.</u>
Training	www.siemens.com/sitrain-lowvoltage
Local contacts	www.siemens.com/lowvoltage/contact
Technical Support	www.siemens.com/lowvoltage/support-request
Information on services	www.siemens.com/service-catalog
Manual for the generation, transmission and distribution	www.siemens.com/power-engineering-guide
of electrical energy	
Control panels for the North American market	www.siemens.com/northamerican-standards
Control panel building	www.siemens.com/controlpanel
Energy savings and amortization	www.automation.siemens.com/sinasave
Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip

Catalogs and further information



LV 10 Low-Voltage Power Distribution and Electrical Installation Technology SENTRON • SIVACON • ALPHA

Protection, Switching, Measuring and Monitoring Devices, Switchboards and Distribution Systems

PDF (E86060-K8280-A101-B2-7600)



LV 14 Power Monitoring Made Simple SENTRON

E86060-K1814-A101-A7-7600



LV 18
Air Circuit Breakers and Molded Case
Circuit Breakers with UL Certification
SENTRON

PDF (E86060-K8280-E347-A5-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



IC 10 Industrial Controls SIRIUS

E86060-K1010-A101-B1-7600



Industry Mall
Information and Ordering Platform

on the Internet:

www.siemens.com/industrymall



Siemens TIA Selection Tool

for the selection, configuration and ordering of TIA products and devices

www.siemens.com/tst



Training for Industry SITRAIN

www.siemens.com/sitrain

The catalogs listed above and additional catalogs are available in PDF format at Siemens Industry Online Support www.siemens.com/lowvoltage/catalogs

Further information on low-voltage power distribution and electrical installation technology is available on the Internet at www.siemens.com/lowvoltage

Get more information

www.siemens.com/lowvoltage

Published by For the U.S. published by Siemens AG Siemens Industry Inc.

Smart Infrastructure

Electrical Products 100 Technology Drive
Siemensstraße 10 Alpharetta, GA 30005

93055 Regensburg, Germany United States

PDF (Extract from E86060-K8280-A101-B2-7600) KG 1220 88 En Produced in Germany © Siemens 2020

Subject to changes and errors. The information given in this catalog only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be trademarks or other rights of Siemens AG, its affiliated companies or other companies whose use by third parties for their own purposes could violate the rights of the respective owner.

Security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks.

In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept.

Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the Internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place.

For additional information on industrial security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/industrialsecurity