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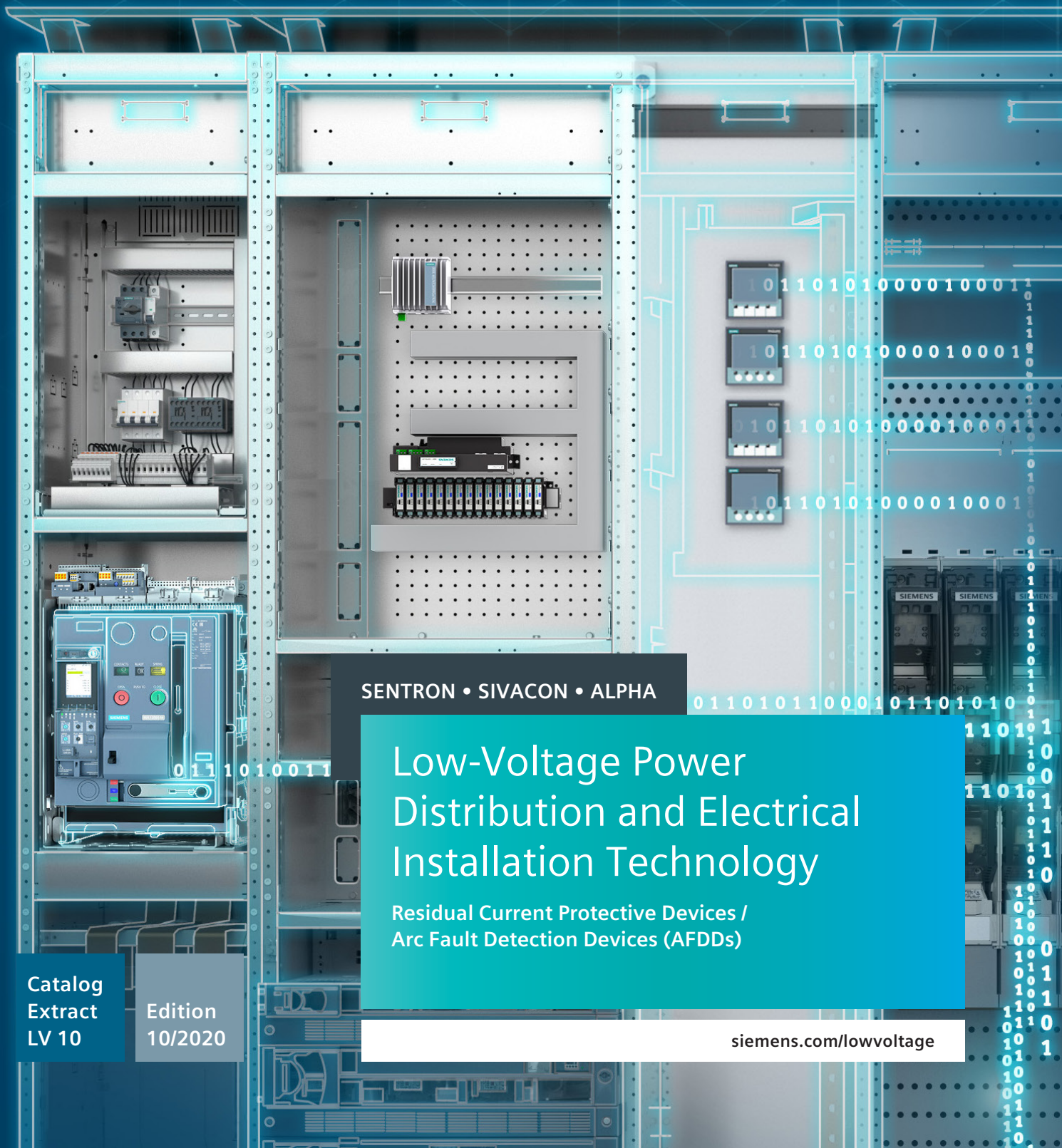

SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

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

Catalog Extract LV 10

Edition 10/2020

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

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Technical data
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All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

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More safety for humans, plants and assets

The number of electrical consumers in residential homes and commercial buildings has increased dramatically in recent decades.

Modern appliances often have quite different characteristics in terms of current consumption than earlier equipment due, for example, to the use of frequency converters in washing machines, or switched-mode power supply units in TVs, PCs or LED lights.

There are also decentralized power generators like photovoltaic systems or charging devices for electric vehicles.

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

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

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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about residual current protective devices / arc fault detection devices, please visit our websites
www.siemens.com/rccb
www.siemens.com/protection-concept

Contact persons in your region

We are there when you need us

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Your product in detail

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

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

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

Use our conversion tool for quick and easy conversion to Siemens products www.siemens.com/conversion-tool

Our video range

Siemens YouTube channel

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

Everything you need for your order

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

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
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... can be found in our online services

Commissioning + operation

Your product in detail

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

- Operating instructions
- Characteristic curves
- Certificates

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

Manuals

Manuals are available for downloading in Siemens Industry Online Support at
www.siemens.com/lowvoltage/manuals

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

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Training and tutorials

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

Technical overview – Residual current protective devices / arc fault detection devices

The fast way to get you to our online services

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

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

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System overview

Basic devices and accessories

Basic units

5SV3 RCCBs

5SM3 RCCBs

5SM2 RC units

5SU1 RCBOs

5SV1 RCBOs

5SM6 and 5SV6
arc fault detection devices

Electrical accessories

Auxiliary switches (AS)

Fault signal contacts (FC)

Auxiliary switches and fault signal contacts (AS+FC)

Shunt trips (ST)

Undervoltage releases (UR)

Remote controlled (RC) mechanisms

Mechanical accessories

Locking devices

Handle couplers

Touch protection

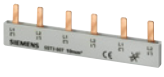
Wall enclosures

Molded-plastic enclosures

Terminal covers

Busbars and accessories

Compact busbars


Standard busbars

Terminals

Touch protection

End caps

RCCB protective socket outlets

In molded-plastic enclosure

For mounting on device box

Note:
You will find a detailed range of accessories with the basic units and in the Accessories section.

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Introduction

Residual current protective devices

Selection criteria

Equipment, power, environmental conditions

Design

RCCBs
RCBOs
RC units

Number of pole

1P+N
2P
3P
3P+N
4P

Rated current I_n

0.3 ... 125 A

Types and waveform

					6 mA	10 mA		
Type AC	■	–	–	–	–	–	–
Type A	■	■	■	■	–	–	–
Type F	■	■	■	■	■	■	–
Type B	■	■	■	■	■	■	■
Type B+ (kHz)	■	■	■	■	■	■	■

Version

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

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

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

Additional protection $I_{\Delta n}$ ≤30 mA
Error protection $I_{\Delta n}$ >30 mA
Fire protection $I_{\Delta n}$ ≤300 mA

Characteristic CB (for residual current operated circuit breakers)

A
B
C
D

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RCCBs

			5SV		
Types			**Instantaneous**	**SIGRES, instantaneous**	**Short-time delayed [G]**
Type AC			■	–	■
Type A			■	■	■
Type F			–	–	–
Type B / Type B+			–	–	–
Surge current withstand capability 8/20 µs					
Type A		kA	>1	>1	>3
Type F		kA	–	–	>3
Type B / Type B+		kA	–	–	–
Minimum operational voltage for test function operation					
30-mA devices		V AC	195		
Non-30-mA devices		V AC	100		
24 V devices		V AC	20		
Terminal conductor cross-sections					
1-wire	Solid/stranded	mm^2	0.75 ... 35		
	Finely stranded with end sleeve	mm^2	0.75 ... 25		
	Finely stranded without end sleeve	mm^2	1 ... 35		
2-wire, same cross-section, same conductor type	Solid/stranded	mm^2	0.75 ... 10		
	Finely stranded with end sleeve	mm^2	0.75 ... 4		
	Finely stranded without end sleeve	mm^2	1 ... 4		
1-wire + busbar (pin thickness 1.5 mm)	Solid/stranded	mm^2	10 ... 25		
	Finely stranded with non-insulated end sleeve	mm^2	6 ... 25		
	Finely stranded with insulated end sleeve	mm^2	6 ... 16		
Terminal tightening torque		Nm	2.5... 3.5		
Poles					
Number of poles			1P+N | 3P+N		
Rated voltage U_n		V AC	24 ... 125 | 230 | 400 | 500		
Operating frequency		Hz	50 | 50 ... 400 | 50 / 60		
Standards					
			IEC/EN 61008 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), IEC/ EN 62423 (VDE 0664-40), ÖVE EN 61008,ÖVE/ÖNORM E 8601		
Rated residual current $I_{\Delta n}$		mA	10, 30, 100, 300, 500, 1000		
Rated current I_n		A	16 ... 80		
Rated breaking capacity I_{cn}		kA	–		
Connection			N right | N left		
Service life	Average number of switching cycles		>10000		
Test button Test cycles			Half-yearly [1] | SIGRES annually [2]		
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, if the distribution board is installed, with connected conductors		
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe		
Temperatures	Storage temperature	°C	-40 ... +75 °C		
	Ambient temperature	°C	-25 ... +45, marked with		
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. air humidity)		
CFC and silicone-free			■		
Mains connection			Top | bottom | SIGRES on top only		
Overvoltage category | Pollution degree			III | 2		
More information					
Catalog LV 10 – 10/2020			See page 4/14		

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

System overview, page 4/4

5SV			SIQUENCE 5SV3		5SM3	
Super resistant [K]	Selective [S]	SIGRES, selective [S]	SIGRES, super-resistant [K]	SIGRES, Selective [S]	Instantaneous	Selective [S]
–	–	–	–	–	■	■
■	■	■	–	–	■	■
■	■	–	–	–	–	–
–	–	–	■	■	–	–
>3	>5	>5	–	–	>1	>5
>3	–	–	–	–	–	–
–	–	–	>3	>5	–	–
195			195		195	
100			–		–	
20			–		–	
0.75 ... 35			0.75 ... 35		1.5 ... 50 (2 MW) | 2.5 ... 50 (4 MW)	
0.75 ... 25			0.75 ... 25		–	
1 ... 35			1 ... 35		–	
0.75 ... 10			0.75 ... 10		–	
0.75 ... 4			0.75 ... 4		–	
1 ... 4			1 ... 4		–	
10 ... 25			0.75 ... 35		–	
6 ... 25			0.75 ... 25		–	
6 ... 16			1 ... 35		–	
2.5... 3.5			2.5 ... 3.0		3.0... 3.5	
1P+N | 3P+N			1P+N | 3P+N		1P+N | 3P+N	
24 ... 125 | 230 | 400 | 500			230 | 400		230 | 400	
50 / 60			50 / 60		50	
IEC/EN 61008 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40), ÖVE EN 61008,ÖVE/ÖNORM E 8601			IEC/EN 62423 (VDE 0664-40), IEC/EN 61543 (VDE 0664-30), DIN VDE 0664-400 (Type B+ only)		IEC/EN 61008-1 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), EC/EN 62423 (VDE 0664-40)	
10, 30, 100, 300, 500, 1000			30, 300, 500		30, 100, 300, 500	
16 ... 80			16 ... 80		100 ... 125	
–			–		–	
N right | N left			N right		N right	
>10000			>10000		>10 000	
Half-yearly [1] | SIGRES annually [2]			Annually [2]		Half-yearly	
IP20, if the distribution board is installed, with connected conductors			IP20, if the distribution board is installed, with connected conductors		IP20, if the distribution board is installed, with connected conductors	
Finger and back-of-hand safe			Finger and back-of-hand safe		Finger and back-of-hand safe	
-40 ... +75 °C			-40 ... +75 °C		-40 ... +75 °C	
-25 ... +45, marked with			-25 ... +45, marked with		-25 ... +45, marked with	
28 cycles (55 °C; 95% rel. air humidity)			28 cycles (55 °C; 95% rel. air humidity)		28 cycles (55 °C; 95% rel. air humidity)	
■			■		■	
Top | bottom | SIGRES on top only			Top | bottom		Top | bottom	
III | 2			III | 2		III | 2	
See page 4/14			See page 4/26		See page 4/30	

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RC units

			5SM2 (0.3 ... 63 A)
Types			**Instantaneous**
Type AC			■
Type A			■
Type F			–
Surge current withstand capability 8/20 µs			
Type A		kA	>1
Type F		kA	–
Minimum operational voltage for test equipment			
30-mA devices		V AC	195
Non-30-mA devices		V AC	100
Terminal conductor cross-sections			
Solid/stranded		mm^2	1.0 ... 25
Terminal tightening torque		Nm	2.5 ... 3.0
Poles			
Number of poles			2P | 3P | 4P
Rated voltage U_n		V AC	230 | 400
Operating frequency		Hz	50 | 50/60
Standards			
			IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40)
Rated residual current $I_{\Delta n}$		mA	10, 30, 100, 300, 500, 1000
Rated current I_n		A	0.3 ... 63
Service life	Average number of switching cycles		>10000
Test button Test cycles			half-yearly [1]
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, if the distribution board is installed, with connected conductors
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe
Temperatures	Storage temperature	°C	-40 ... +75 °C
	Ambient temperature	°C	-25 ... +45, marked with
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. air humidity)
CFC and silicone-free			■
Mains connection			Top | bottom
Overvoltage category | Pollution degree			III | 2
More information			
Catalog LV 10 – 10/2020			See page 4/32

[1] Extension to annual test interval under certain conditions

System overview, page 4/4

5SM2 (0.3 ... 63 A)		5SM2 (80 ... 100 A)	
Super resistant [K]	**Selective [S]**	**Instantaneous**	**Selective [S]**
■	■	■	■
■	■	■	■
■	–	–	–
>3	>5	>1	>5
>3	–	–	–
195		195	
100		100	
1.0 ... 25		6.0 ... 50	
2.5 ... 3.0	2.5 ... 3.0	2.5 ... 3.0	2.5 ... 3.0
2P | 3P | 4P		2P | 4P	
230 | 400		230 | 400	
50 | 50/60		50 | 50/60	
IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40)		IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40)	
30	300, 500, 1000	30, 300	300, 1000
0.3 ... 63	0.3 ... 63	80 ... 100	80 ... 100
>10000	>10000	>10000	>10000
half-yearly [1)]	half-yearly [1)]	half-yearly [1)]	half-yearly [1)]
IP20, if the distribution board is installed, with connected conductors		IP20, if the distribution board is installed, with connected conductors	
Finger and back-of-hand safe		Finger and back-of-hand safe	
-40 ... +75 °C		-40 ... +75 °C	
-25 ... +45, marked with		-25 ... +45, marked with	
28 cycles (55 °C; 95% rel. air humidity)		28 cycles (55 °C; 95% rel. air humidity)	
■		■	
Top | bottom		Top | bottom	
III | 2		III | 2	
See page 4/32		See page 4/32	

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RCBOs

			5SU1 (up to 40 A)		
Types			**Instantaneous**	**Short-time delayed / Super resistant**	**Selective [S]**
Type AC			■	■	–
Type A			■	■	■
Type B			–	–	–
Type B+			–	–	–
Type F			–	■	–
Surge current withstand capability 8/20 µs 8/20 µs					
Type A		kA	>1	>3	>5
Type F		kA	–	>3	–
Minimum voltage for operation of the test equipment					
30-mA devices		AC V	195		
Non-30-mA devices		AC V	100		
Terminal conductor cross-sections					
1 conductor at front + busbar at rear	Solid/stranded	mm^2	0.75 ... 35		
	Finely stranded with end sleeve	mm^2	0.75 ... 25		
	Finely stranded without end sleeve	mm^2	1 ... 25		
2 conductors at rear	Solid/stranded	mm^2	0.75 ... 6		
	Finely stranded with non-insulated end sleeve	mm^2	0.75 ... 4		
	Finely stranded with insulated end sleeve	mm^2	0.75 ... 4		
	Finely stranded without end sleeve	mm^2	1 ... 4		
Terminal tightening torque		Nm	2.5 ... 3.0		
Poles					
Number of poles			1P+N | 2P		
Rated voltage U_n		AC V	110 | 230		
Operating frequency		Hz	50 | 50/60		
Standards					
			IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40)		
Rated residual current $I_{\Delta n}$		mA	10, 30, 100, 300		
Rated current I_n		A	6 ... 40		
Rated breaking capacity I_{cn}		kA	4.5 | 6 | 10		
Connection			N right | N left		
Service life	Average number of switching cycles		>10000		
Test button Test cycles			Half-yearly [1]		
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, if the distribution board is installed, with connected conductors		
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe		
Temperatures	Storage temperature	°C	-40 ... +75 °C		
	Ambient temperature	°C	-25 ... +45, marked with		
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. air humidity)		
CFC and silicone-free			■		
Mains connection			Top | bottom		
Energy limitation class			3		
Overvoltage category | Pollution degree			III | 2		
More information					
Catalog LV 10 – 10/2020			See page 4/42		

[1] Extension to annual test interval under certain conditions

System overview, page 4/4

5SV1		5SU1 (125 A)		5SU1 (100 A, 125 A)	
Instantaneous	Short-time delayed / Super resistant	Instantaneous	Short-time delayed / Super resistant	Short-time delayed / Super resistant	Selective [S]
■	–	■	■	–	–
■	■	■	■	–	–
–	–	–	–	■	■
–	–	–	–	■	■
–	■	–	–	–	–
>1	>3	>1	>3	>3	>5
–	>3	–	–	–	–
195		195		195	
100		100		100	
0.75 ... 16		25 ... 50		20 ... 50	
0.75 ... 10		25 ... 35		25 ... 35	
0.75 ... 16		–		–	
0.75 ... 4		–		–	
0.75 ... 2.5		–		–	
0.75 ... 1.5		–		–	
0.75 ... 4		–		–	
1.2 ... 2.0		3.0 ... 3.5		3.0 ... 3.5	
1P+N		2P | 4P		4P	
230		230 | 400		400 | 430	
50 | 50/60		50 | 50/60		50/60	
IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40)		IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40)		IEC/DIN EN 61009-1 (VDE 0664-20), IEC/DIN EN 61009-2-1 (VDE 0664-21), IEC/DIN EN 61543 (VDE 0664-30), IEC/DIN EN 62423 (VDE 0664-40)	
30, 300		30, 300, 1000		30, 300	
2 ... 16		125		100, 125	
4.5 | 6		10		10	
N right		N right | N left		N right | N left	
>10 000		>10000		>10000	
Half-yearly [1)]		Half-yearly [1)]		Half-yearly [1)]	
IP20, if the distribution board is installed, with connected conductors		IP20, if the distribution board is installed, with connected conductors		IP20, if the distribution board is installed, with connected conductors	
Finger and back-of-hand safe		Finger and back-of-hand safe		Finger and back-of-hand safe	
-40 ... +75 °C		-40 ... +75 °C		-40 ... +75 °C	
-25 ... +45, marked with		-25 ... +45, marked with		-25 ... +45, marked with	
28 cycles (55 °C; 95% rel. air humidity)		28 cycles (55 °C; 95% rel. air humidity)		28 cycles (55 °C; 95% rel. air humidity)	
■		■		■	
Top | bottom		Top | bottom		Top | bottom	
3		3		3	
III | 2		III | 2		III | 2	
See page 4/48		See page 4/42		See page 4/47	

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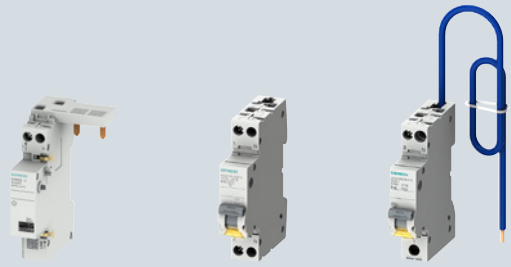
Arc fault detection devices (AFDD)



			5SM6	5SV6	5SV6....KP..
Poles					
Number of poles			2P	1P+N	1P+N
Rated voltage U_n		V AC	230	230	230
Operating frequency		Hz	50	50	50
Terminal conductor cross-sections					
Solid and stranded		mm^2	0.75 ... 16	0.75 ... 16	0.75 ... 16 (top) 0.75 ... 35 (bottom)
Finely stranded with end sleeve		mm^2	0.75 ... 10	0.75 ... 10	0.75 ... 10 (top) 0.75 ... 25 (bottom)
Terminal tightening torque		Nm	2.0 ... 2.5	1.2 ... 2.0	1.2 ... 2.0 (top) 2.5 ... 3.5 (bottom)
Standards					
			IEC/EN 62606	IEC/EN 62606	IEC/EN 62606
Rated current I_n		A	Up to 16/40 A	6 ... 40	6 ... 40
Service life	Average number of switching cycles		>10000	>10000	>10000
Mounting position			Any	Any	Any
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, with connected conductors		
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe		
Temperatures	Storage temperature	°C	-40 ... +75 °C		
	Ambient temperature	°C	-25 ... +45, marked with		
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. air humidity)		
CFC and silicone-free			■	■	■
Mains connection			Bottom	Top | bottom	Bottom
Overvoltage category | Pollution degree			III | 2	III | 2	III | 2
Tripping in the event of overvoltage		V	>275	>285	>285
More information					
Catalog LV 10 – 10/2020			See page 4/50	See page 4/51	See page 4/51

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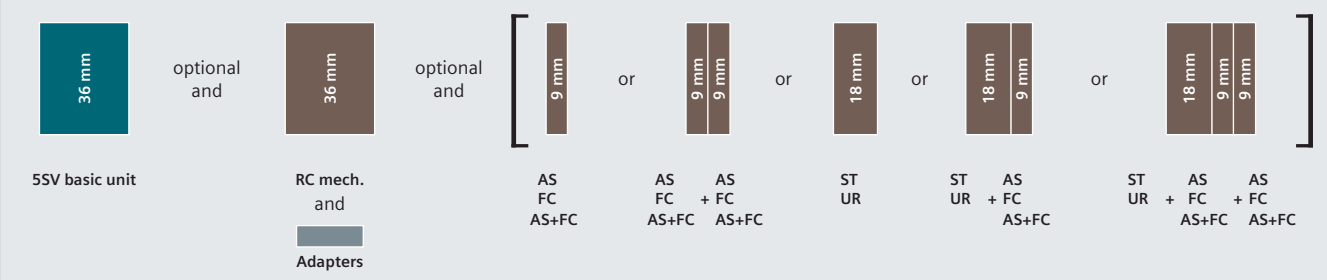
5SV RCCBs

Type A, 1P+N (2 MW)

				Instantaneous			Instantaneous (only available in Belgium) [2]
				24 ... 125 V AC	230 V AC		230 V AC
			N connection	Right	Right	Left	Right
$I_{\Delta n}$	I_n	Thermal overload protection [1]	Bulk packaging (36 units)				
Type A							
10 mA	16 A	–	–	–	5SV3111-6	5SV3111-6KL	–
30 mA	16 A	–	–	5SV3311-6KK13	5SV3311-6	5SV3311-6KL	–
		–	■	–	5SV3311-6GV01	–	–
	25 A	–	–	5SV3312-6KK13	5SV3312-6	5SV3312-6KL	5SV3312-6BA
		–	■	–	5SV3312-6GV01	–	–
	40 A	–	–	5SV3314-6KK13	5SV3314-6	5SV3314-6KL	5SV3314-6BA
		–	■	–	5SV3314-6GV01	–	–
		■	–	–	5SV3314-6LA	–	–
	63 A	–	–	5SV3316-6KK13	5SV3316-6	5SV3316-6KL	5SV3316-6BA
	80 A	–	–	–	5SV3317-6	5SV3317-6KL	–
100 mA	25 A	–	–	–	5SV3412-6	5SV3412-6KL	5SV3612-6BA
	40 A	–	–	–	5SV3414-6	5SV3414-6KL	5SV3614-6BA
	63 A	–	–	–	5SV3416-6	5SV3416-6KL	5SV3616-6BA
	80 A	–	–	–	5SV3417-6	5SV3417-6KL	–
300 mA	25 A	–	–	–	5SV3612-6	5SV3612-6KL	–
	40 A	–	–	–	5SV3614-6	5SV3614-6KL	–
	63 A	–	–	–	5SV3616-6	5SV3616-6KL	–
	80 A	–	–	–	5SV3617-6	5SV3617-6KL	–

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

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

Quick selection guide, page 4/6

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

Accessories

Auxiliary switches (AS)		Article No.
1 NO contact + 1 NC contact	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

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

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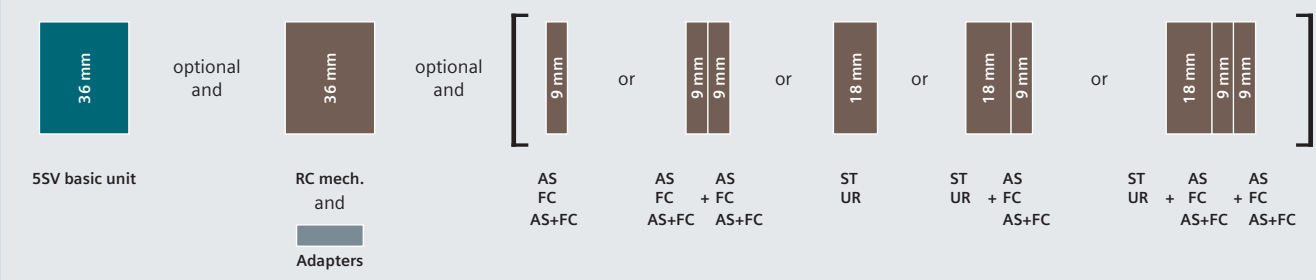
5SV RCCBs

Type F, 1P+N (2 MW)

		Super resistant [K] 230 V AC	Selective [S] 230 V AC
	N connection	Right	Right
$I_{\Delta n}$	I_n		
Type F			
30 mA	25 A	5SV3312-3	–
	40 A	5SV3314-3	–
	63 A	5SV3316-3	–
	80 A	5SV3317-3	–
300 mA	25 A	5SV3612-3	–
	40 A	5SV3614-3	5SV3614-7
	63 A	5SV3616-3	–
	80 A	5SV3617-3	5SV3617-7

4

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
2 MW	5ST3820-6

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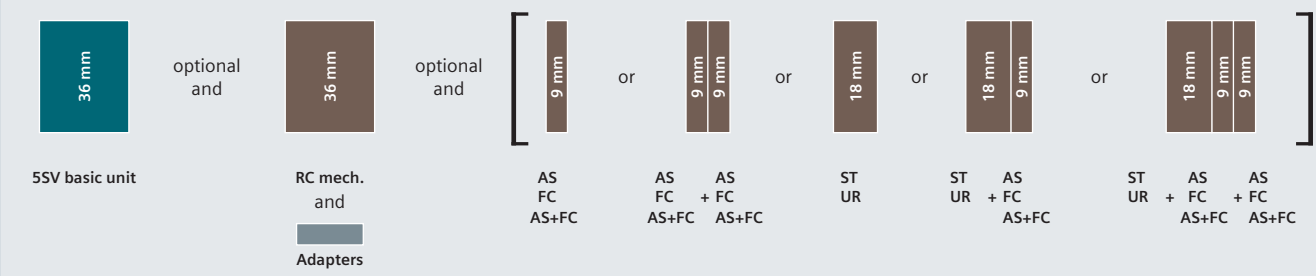
5SV RCCBs

Type AC, 1P+N (2 MW)

				Instantaneous			Short-time delayed [G]
				230 V AC		24 ... 125 V AC	230 V AC
			N connection	Right	Left	Right	Right
$I_{\Delta n}$	I_n	Thermal overload protection [1]	Bulk packaging (36 units)				
Type AC							
10 mA	16 A	–	–	5SV4111-0	5SV4111-0KL	–	–
30 mA	16 A	–	–	5SV4311-0	5SV4311-0KL	5SV4311-0KK13	–
	25 A	–	–	5SV4312-0	5SV4312-0KL	5SV4312-0KK13	–
		–	■	5SV4312-0GV01	–	–	–
	40 A	–	–	5SV4314-0	5SV4314-0KL	5SV4314-0KK13	5SV4314-0LA01
		–	■	5SV4314-0GV01	5SV4314-0GV02	–	–
		■	–	5SV4314-0LA	–	–	–
	63 A	–	–	5SV4316-0	5SV4316-0KL	5SV4316-0KK13	–
	80 A	–	–	5SV4317-0	5SV4317-0KL	–	–
100 mA	25 A	–	–	5SV4412-0	–	–	–
	40 A	–	–	5SV4414-0	5SV4414-0KL	–	–
	63 A	–	–	5SV4416-0	5SV4416-0KL	–	–
	80 A	–	–	5SV4417-0	–	–	–
300 mA	25 A	–	–	5SV4612-0	5SV4612-0KL	–	–
	40 A	–	–	5SV4614-0	5SV4614-0KL	–	–
	63 A	–	–	5SV4616-0	5SV4616-0KL	–	–
	80 A	–	–	5SV4617-0	5SV4617-0KL	–	–

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

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
2 MW	5ST3820-6

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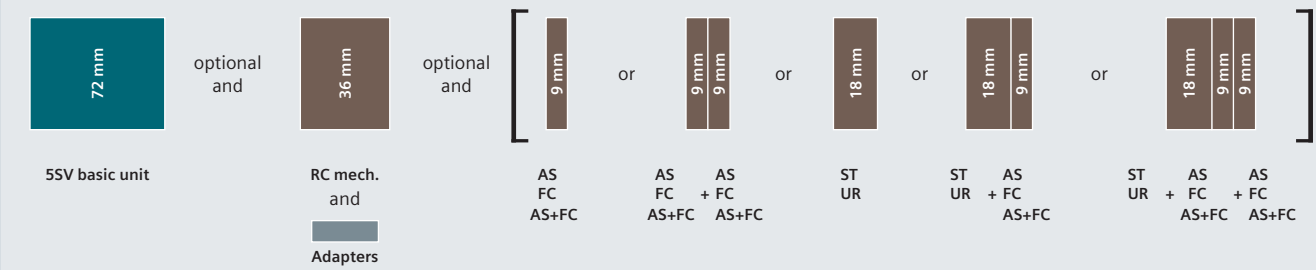
5SV RCCBs

Type A, 3P+N (4 MW)

				Instantaneous			
				400 V AC		400 V AC/400 Hz	500 V AC
			N connection	Right	Left	Right	Right
$I_{\Delta n}$	I_n	Thermal overload protection [1]	Bulk packaging (18 units)				
Type A							
30 mA	25 A	–	–	5SV3342-6	5SV3342-6KL	5SV3342-6KK03	5SV3352-6
		–	■	5SV3342-6GV01	–	–	–
	40 A	–	–	5SV3344-6	5SV3344-6KL	5SV3344-6KK03	5SV3354-6
		–	■	5SV3344-6GV01	5SV3344-6GV02	–	–
		■	–	5SV3344-6LA	–	–	–
	63 A	–	–	5SV3346-6	5SV3346-6KL	–	5SV3356-6
		–	■	5SV3346-6GV01	–	–	–
		■	–	5SV3346-6LA	–	–	–
	80 A	–	–	5SV3347-6	5SV3347-6KL	–	5SV3357-6
100 mA	25 A	–	–	5SV3442-6	–	–	–
	40 A	–	–	5SV3444-6	–	–	–
		■	–	5SV3444-6LA	–	–	–
	63 A	–	–	5SV3446-6	–	–	–
		■	–	5SV3446-6LA	–	–	–
	80 A	–	–	5SV3447-6	–	–	–
300 mA	25 A	–	–	5SV3642-6	5SV3642-6KL	–	5SV3652-6
	40 A	–	–	5SV3644-6	5SV3644-6KL	–	5SV3654-6
		■	–	–	–	–	–
	63 A	–	–	5SV3646-6	5SV3646-6KL	–	5SV3656-6
		■	–	–	–	–	–
	80 A	–		5SV3647-6	5SV3647-6KL	–	5SV3657-6
500 mA	25 A	–	–	5SV3742-6	–	–	–
	40 A	–	–	5SV3744-6	–	–	–
	63 A	–	–	5SV3746-6	5SV3746-6KL	–	–
		–	■	5SV3746-6GV01	–	–	–
	80 A	–	–	5SV3747-6	–	–	–
1000 mA	63 A	–	–	–	–	–	–

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

Mounting concept



AS	Auxiliary switch	See page 4/54	ST	Shunt trips	See page 4/59
FC	Fault signal contact	See page 4/56	UR	Undervoltage release	See page 4/60
AS+FC	Auxiliary switch and fault signal contact	See page 4/58	RC mech.	Remote controlled mechanism	See page 4/61

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

Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
4 MW	5ST3820-6

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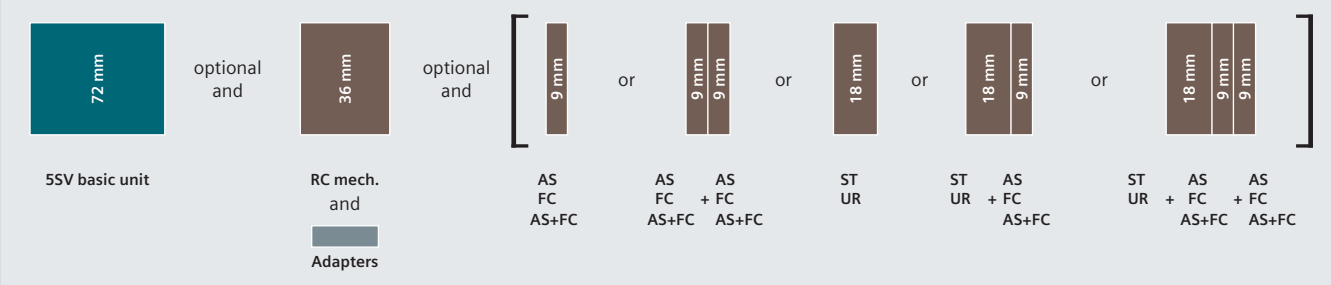
5SV RCCBs

Type F, 3P+N (4 MW)

		Super resistant [K] 400 V AC	Selective [S] 400 V AC
	N connection	Right	Right
$I_{\Delta n}$	I_n		
Type F			
30 mA	25 A	5SV3342-3	–
	40 A	5SV3344-3	–
	63 A	5SV3346-3	–
	80 A	5SV3347-3	–
300 mA	25 A	5SV3642-3	–
	40 A	5SV3644-3	5SV3644-7
	63 A	5SV3646-3	–
	80 A	5SV3647-3	5SV3647-7

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

Auxiliary switches (AS)		Article No.
1 NO contact + 1 NC contact	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

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

Quick selection guide, page 4/6

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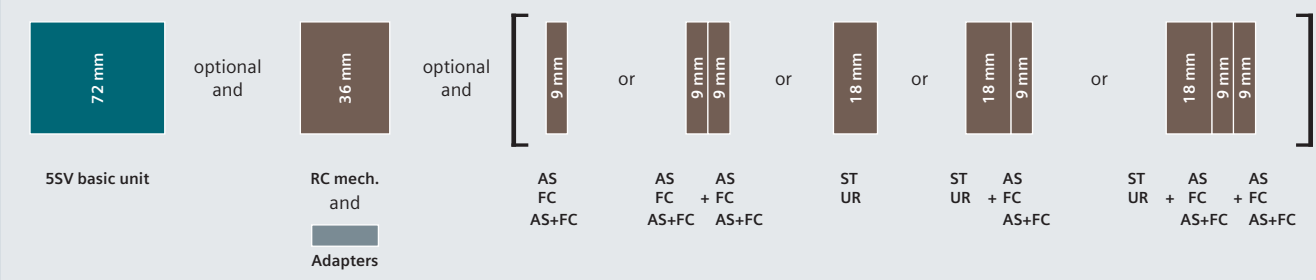
5SV RCCBs

Type AC, 3P+N (4 MW)

				Instantaneous 400 V AC		Short-time delayed [G] 400 V AC
			N connection	Right	Left	Right
$I_{\Delta n}$	I_n	Thermal overload protection [1]	Bulk packaging (18 units)			
Type AC						
30 mA	25 A	–	–	5SV4342-0	5SV4342-0KL	–
		–	■	5SV4342-0GV01	–	–
	40 A	–	–	5SV4344-0	5SV4344-0KL	5SV4344-0LA01
		–	■	5SV4344-0GV01	–	–
		■	–	5SV4344-0LA	–	–
	63 A	–	–	5SV4346-0	5SV4346-0KL	5SV4346-0LA01
		■	–	5SV4346-0LA	–	–
	80 A	–	–	5SV4347-0	5SV4347-0KL	–
100 mA	25 A	–	–	5SV4442-0	–	–
	40 A	–	–	5SV4444-0	–	5SV4444-0LA01
		■	–	5SV4444-0LA	–	–
	63 A	–	–	5SV4446-0	–	5SV4446-0LA01
		■	–	5SV4446-0LA	–	–
	80 A	–	–	5SV4447-0	–	–
300 mA	25 A	–	–	5SV4642-0	5SV4642-0KL	–
	40 A	–	–	5SV4644-0	5SV4644-0KL	–
	63 A	–	–	5SV4646-0	5SV4646-0KL	–
	80 A	–	–	5SV4647-0	5SV4647-0KL	–
500 mA	25 A	–	–	5SV4742-0	–	–
	40 A	–	–	5SV4744-0	–	–
	63 A	–	–	5SV4746-0	–	–
	80 A	–	–	5SV4747-0	–	–

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

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
4 MW	5ST3820-6

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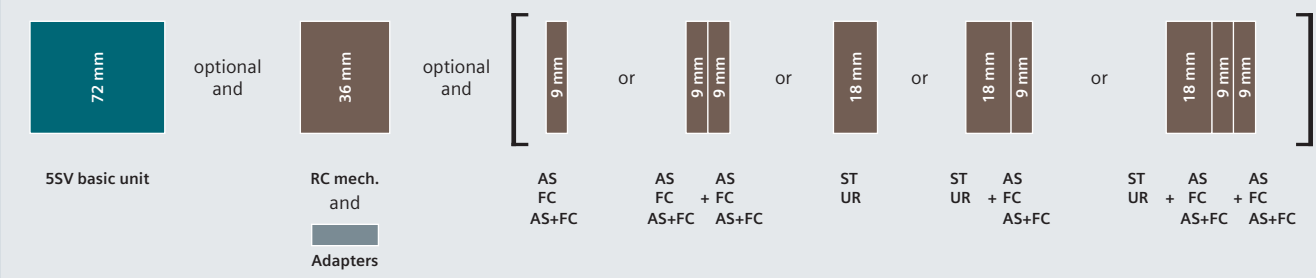
5SV3 RCCBs (SIQUENCE)

Type B, 1P+N (4 MW)

			SIGRES, super resistant [K] 230 V AC
		N connection	Right
$I_{\Delta n}$	I_n	Bulk packaging (18 units)	
Type B			
30 mA	16 A	–	5SV3321-4
	25 A	–	5SV3322-4
	40 A	–	5SV3324-4
		■	5SV3324-4GV01
	63 A	–	5SV3326-4
300 mA	16 A	–	5SV3621-4
	25 A	–	5SV3622-4
	40 A	–	5SV3624-4
	63 A	–	5SV3626-4

4

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
4 MW	5ST3820-6

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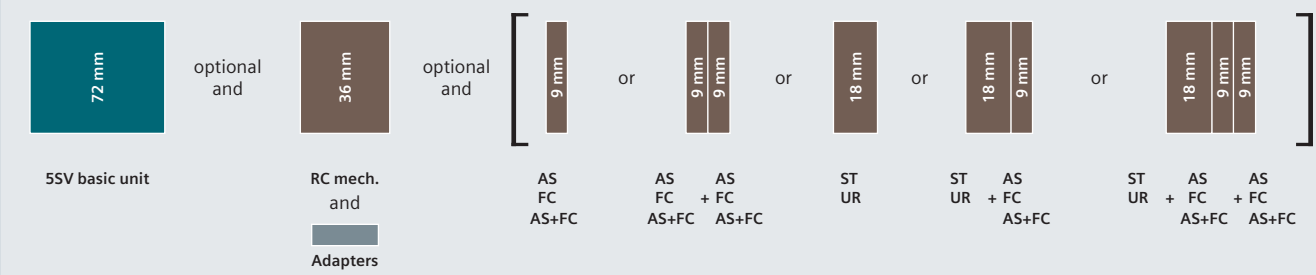
5SV3 RCCBs (SIQUENCE)

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

			SIGRES, super resistant [K] 230 ... 400 V AC	SIGRES, selective [S] 230 ... 400 V AC
		N connection	Right	Right
$I_{\Delta n}$	I_n	Bulk packaging (18 units)		
Type B				
30 mA	25 A	–	5SV3342-4	–
		■	5SV3342-4GV01	–
	40 A	–	5SV3344-4	–
		■	5SV3344-4GV01	–
	63 A	–	5SV3346-4	–
		■	5SV3346-4GV01	–
	80 A	–	5SV3347-4	–
300 mA	25 A	–	5SV3642-4	–
		■	5SV3642-4GV01	–
	40 A	–	5SV3644-4	–
		■	5SV3644-4GV01	–
	63 A	–	5SV3646-4	5SV3646-5
		■	5SV3646-4GV01	–
	80 A	–	5SV3647-4	5SV3647-5
500 mA	25 A	–	5SV3742-4	–
	40 A	–	5SV3744-4	–
	63 A	–	5SV3746-4	5SV3746-5
	80 A	–	5SV3747-4	5SV3747-5
Type B+				
30 mA	25 A	–	5SV3342-4KK14	–
	40 A	–	5SV3344-4KK14	–
	63 A	–	5SV3346-4KK14	–
	80 A	–	5SV3347-4KK14	–
300 mA	25 A	–	5SV3642-4KK14	–
	40 A	–	5SV3644-4KK14	–
	63 A	–	5SV3646-4KK14	5SV3646-5KK14
	80 A	–	5SV3647-4KK14	5SV3647-5KK14

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
4 MW	5ST3820-6

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5SM3 RCCBs

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

		Instantaneous 230 V AC
	N connection	Right
$I_{\Delta n}$	I_n	
Type A		
30 mA	100 A	5SM3318-6KK
	125 A	5SM3315-6KK
100 mA	100 A	5SM3418-6KK
	125 A	5SM3415-6KK
300 mA	100 A	5SM3618-6KK
	125 A	5SM3615-6KK
Type AC		
30 mA	100 A	5SM3318-0KK
	125 A	5SM3315-0KK
100 mA	100 A	5SM3418-0KK
	125 A	5SM3415-0KK
300 mA	100 A	5SM3618-0KK
	125 A	5SM3615-0KK

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

		Instantaneous 400 V AC	Selective [S] 400 V AC
	N connection	Right	Right
$I_{\Delta n}$	I_n		
Type A			
30 mA	100 A	5SM3348-6	–
	125 A	5SM3345-6	–
100 mA	100 A	5SM3448-6	–
	125 A	5SM3445-6	–
300 mA	100 A	5SM3648-6	5SM3648-8
	125 A	5SM3645-6	5SM3645-8
500 mA	100 A	5SM3748-6	–
	125 A	5SM3745-6	5SM3745-8
Type AC			
30 mA	100 A	5SM3348-0	–
	125 A	5SM3345-0	–
100 mA	100 A	5SM3448-0	–
	125 A	5SM3445-0	–
300 mA	100 A	5SM3648-0	5SM3648-2
	125 A	5SM3645-0	–
500 mA	100 A	5SM3748-0	–
	125 A	5SM3745-0	–

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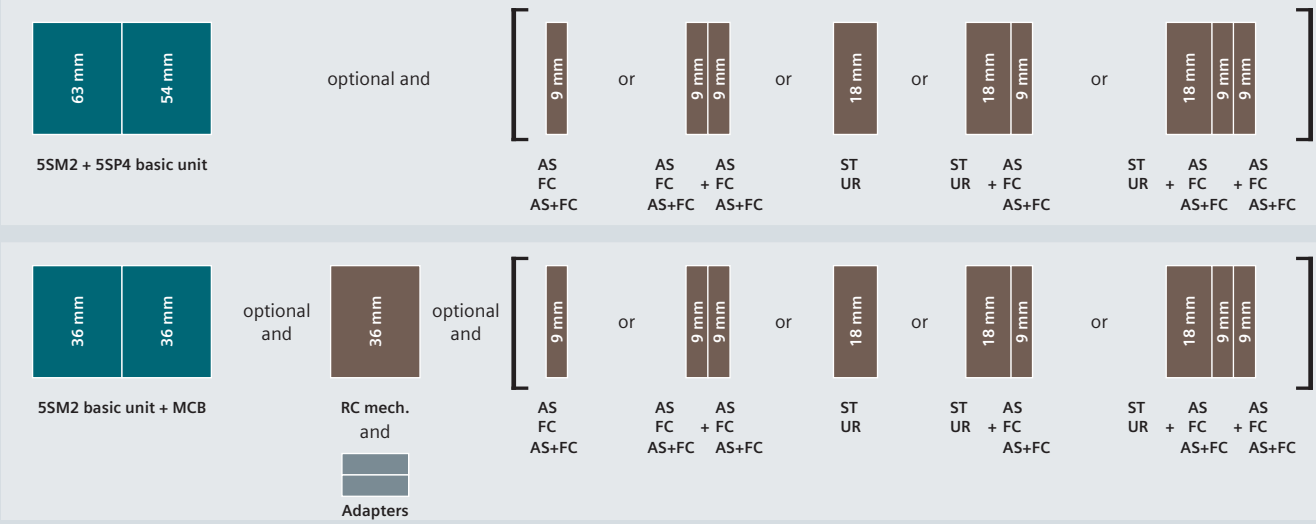
5SM2 RC units

Type A, F and AC, 2-pole

		For 5SY miniature circuit breakers [1] 230 V AC		
	Version	Instantaneous	Super resistant [K]	Selective [S]
	Mounting width	2 MW	2 MW	2 MW
$I_{\Delta n}$	I_n			
Type A				
10 mA	0.3 ... 16 A	5SM2121-6	–	–
30 mA	0.3 ... 40 A	5SM2322-6	5SM2322-6KK01	–
	0.3 ... 63 A	5SM2325-6	5SM2325-6KK01	–
	80 ... 100 A	–	–	–
100 mA	0.3 ... 63 A	5SM2425-6	–	–
300 mA	0.3 ... 40 A	5SM2622-6	–	5SM2622-8
	0.3 ... 63 A	5SM2625-6	–	5SM2625-8
	80 ... 100 A	–	–	–
500 mA	0.3 ... 63 A	5SM2725-6	–	–
1000 mA	0.3 ... 40 A	–	–	5SM2822-8
	0.3 ... 63 A	–	–	5SM2825-8
	80 ... 100 A	–	–	–
Type F				
30 mA	0.3 ... 40 A	–	5SM2322-3	–
	0.3 ... 63 A	–	5SM2325-3	–
Type AC				
10 mA	0.3 ... 40 A	5SM2121-0	–	–
30 mA	0.3 ... 40 A	5SM2322-0	–	–
	0.3 ... 63 A	5SM2325-0	–	–
	80 ... 100 A	–	–	–
300 mA	0.3 ... 40 A	5SM2622-0	–	5SM2622-2
	0.3 ... 63 A	5SM2625-0	–	5SM2625-2
	80 ... 100 A	–	–	–
500 mA	0.3 ... 63 A	5SM2725-0	–	–
1000 mA	0.3 ... 63 A	5SM2825-0	–	–

[1] but not for 5SY5 or 5SY8

Mounting concept



MCB Miniature circuit breaker See page 3/1
AS Auxiliary switch See page 4/54
FC Fault signal contact See page 4/56
AS+FC Auxiliary switch and fault signal contact See page 4/58
ST Shunt trips See page 4/59
UR Undervoltage release See page 4/60
RC mech. Remote controlled mechanism See page 4/61

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For 5SL4 miniature circuit breakers 230 V AC		For 5SP4 miniature circuit breakers (B and C characteristics) 230 V AC	
Instantaneous	Selective [S]	Instantaneous	Selective [S]
2 MW	2 MW	3.5 MW	3.5 MW
–	–	–	–
5SM2323-6	–	–	–
5SM2326-6	–	–	–
–	–	5SM2327-6	–
–	–	–	–
5SM2623-6	5SM2623-8	–	–
5SM2626-6	5SM2626-8	–	–
–	–	5SM2627-6	5SM2627-8
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	5SM2827-8
–	–	–	–
–	–	–	–
–	–	–	–
5SM2323-0	–	–	–
5SM2326-0	–	–	–
–	–	5SM2327-0	–
5SM2623-0	5SM2623-2	–	–
5SM2626-0	5SM2626-2	–	–
–	–	5SM2627-0	–
–	–	–	–
–	–	–	–

Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
5SM2 with 5SY (2P)	5ST3820-3 + 5ST3820-1
5SM2 with 5SL (2P)	5ST3820-3 + 5ST3820-6

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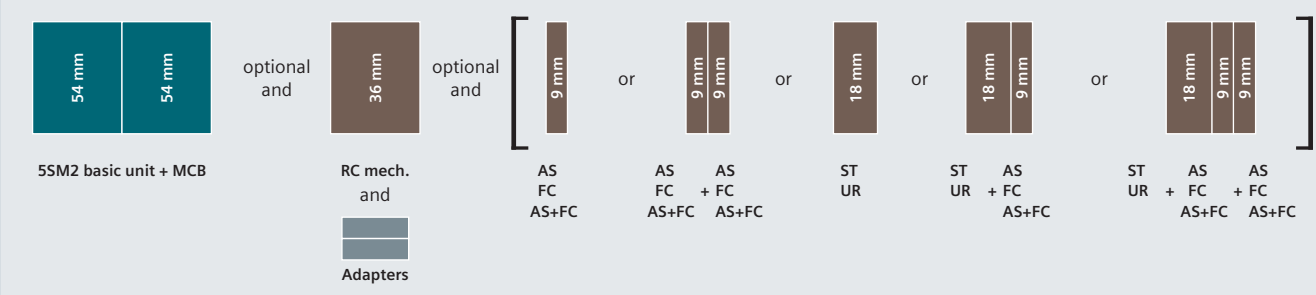
5SM2 RC units

Type A and AC, 3-pole

		For 5SY miniature circuit breakers [1] 400 V AC			For 5SL4 miniature circuit breakers 400 V AC	
	Version	Instantaneous	Super resistant [K]	Selective [S]	Instantaneous	Selective [S]
	Mounting width	3 MW	3 MW	3 MW	3 MW	3 MW
$I_{\Delta n}$	**I_n**					
Type A						
30 mA	0.3 ... 40 A	5SM2332-6	5SM2332-6KK01	–	5SM2333-6	–
	0.3 ... 63 A	5SM2335-6	5SM2335-6KK01	–	5SM2336-6	–
100 mA	0.3 ... 63 A	5SM2435-6	–	–	–	–
300 mA	0.3 ... 40 A	5SM2632-6	–	–	5SM2633-6	–
	0.3 ... 63 A	5SM2635-6	–	5SM2635-8	5SM2636-6	5SM2636-8
500 mA	0.3 ... 63 A	5SM2735-6	–	5SM2735-8	–	–
1000 mA	0.3 ... 40 A	–	–	5SM2832-8	–	–
	0.3 ... 63 A	–	–	5SM2835-8	–	–
Type AC						
30 mA	0.3 ... 40 A	5SM2332-0	–	–	5SM2333-0	–
	0.3 ... 63 A	5SM2335-0	–	–	5SM2336-0	–
300 mA	0.3 ... 40 A	5SM2632-0	–	–	5SM2633-0	–
	0.3 ... 63 A	5SM2635-0	–	–	5SM2636-0	–
500 mA	0.3 ... 63 A	5SM2735-0	–	–	–	–

[1] but not for 5SY5 or 5SY8

Mounting concept



MCB	Miniature circuit breaker	See page 3/1
AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

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

Fault signal contacts (FC)	Article No.
1 NO contact + 1 NC contact	5ST3020
2 NO contacts	5ST3021
2 NC contacts	5ST3022

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO contact (AS) + 1 CO contact (FC)	5ST3062

Shunt trips (ST)	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC	5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

Remote controlled (RC) mechanisms		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

Adapter for RC mechanism	Article No.
5SM2 with 5SY (3P)	5ST3820-3 + 5ST3820-2
5SM2 with 5SL (3P)	5ST3820-3 + 5ST3820-7

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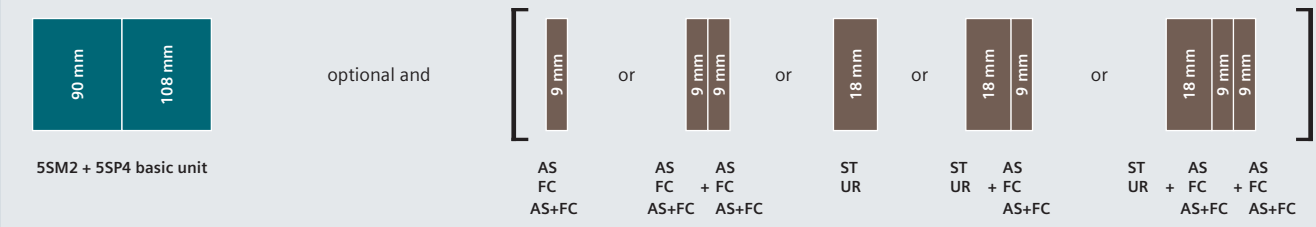
5SM2 RC units

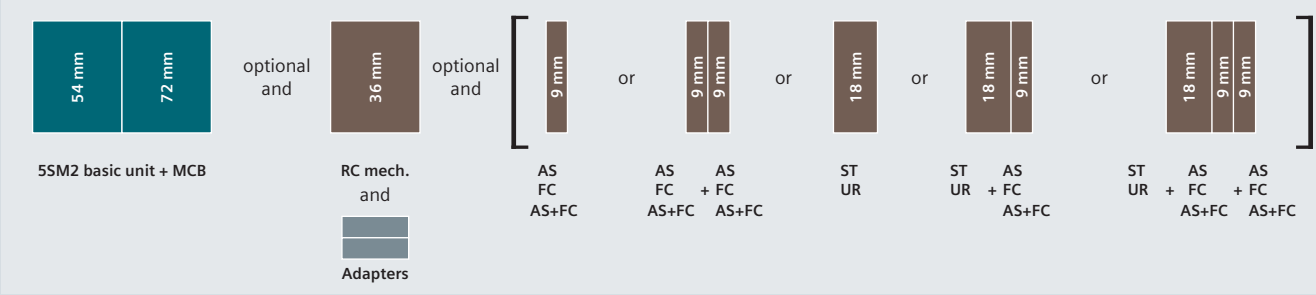
Type A and AC, 4-pole

		For 5SY miniature circuit breakers [1] 400 V AC		
Version		Instantaneous	Super resistant [K]	Selective [S]
Mounting width		3 MW	3 MW	3 MW
$I_{\Delta n}$	**I_n**			
Type A				
30 mA	0.3 ... 40 A	5SM2342-6	5SM2342-6KK01	–
	0.3 ... 63 A	5SM2345-6	5SM2345-6KK01	–
	80 ... 100 A	–	–	–
100 mA	0.3 ... 63 A	5SM2445-6	–	–
300 mA	0.3 ... 40 A	5SM2642-6	–	–
	0.3 ... 63 A	5SM2645-6	–	5SM2645-8
	80 ... 100 A	–	–	–
500 mA	0.3 ... 63 A	5SM2745-6	–	5SM2745-8
1000 mA	0.3 ... 40 A	–	–	5SM2842-8
	0.3 ... 63 A	–	–	5SM2845-8
	80 ... 100 A	–	–	–
Type AC				
30 mA	0.3 ... 40 A	5SM2342-0	–	–
	0.3 ... 63 A	5SM2345-0	–	–
	80 ... 100 A	–	–	–
300 mA	0.3 ... 40 A	5SM2642-0	–	–
	0.3 ... 63 A	5SM2645-0	–	5SM2645-2
	80 ... 100 A	–	–	–
500 mA	0.3 ... 63 A	5SM2745-0	–	–
1000 mA	0.3 ... 63 A	–	–	5SM2845-2

[1] but not for 5SY5 or 5SY8

Mounting concept





MCB	Miniature circuit breaker	See page 3/1	AS+FC	Auxiliary switch and fault signal contact	See page 4/58	UR	Undervoltage release	See page 4/60
AS	Auxiliary switch	See page 4/54	ST	Shunt trips	See page 4/59	RC mech.	Remote controlled mechanism	See page 4/61
FC	Fault signal contact	See page 4/56						

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For 5SL4 miniature circuit breakers 400 V AC		For 5SP4 miniature circuit breakers (B and C characteristics) 400 V AC	
Instantaneous	Selective [S]	Instantaneous	Selective [S]
3 MW	3 MW	5 MW	5 MW
5SM2343-6	–	–	–
5SM2346-6	–	–	–
–	–	5SM2347-6	–
–	–	–	–
5SM2643-6	–	–	–
5SM2646-6	5SM2646-8	–	–
–	–	5SM2647-6	5SM2647-8
–	–	–	–
–	–	–	–
–	–	–	–
–	–	–	5SM2847-8
5SM2343-0	–	–	–
5SM2346-0	–	–	–
–	–	5SM2347-0	–
5SM2643-0	–	–	–
5SM2646-0	5SM2646-2	–	–
–	–	5SM2647-0	–
–	–	–	–
–	–	–	–

Accessories

Auxiliary switches (AS)		Article No.
1 NO contact + 1 NC contact	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

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

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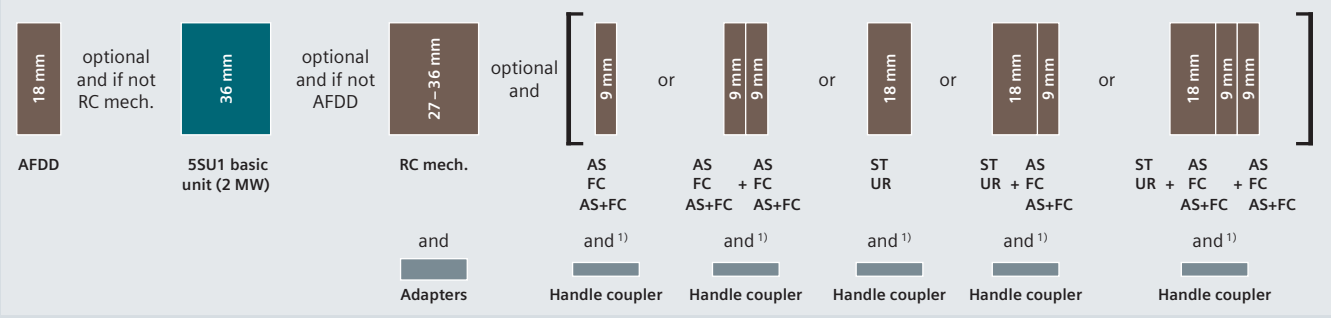
5SU1 RCBOs

Type A, 1P+N

			Instantaneous 230 V AC			
		Mounting width	2 MW	2 MW	2 MW	
		Short-circuit breaking capacity	4.5 kA	4.5 kA	6 kA	
		N connection	Right	Left	Right	
$I_{\Delta n}$	I_n	Bulk packaging (36 units)	Characteristic C	C	Characteristic B	C
Type A						
10 mA	6 A	–	–	–	–	–
	10 A	–	–	–	–	–
	13 A	–	–	–	–	–
	16 A	–	–	–	–	–
30 mA	6 A	–	5SU1353-7KK06	5SU1353-7KL06	5SU1356-6KK06	5SU1356-7KK06
		■	–	–	5SU1356-6GV06	5SU1356-7GV06
	8 A	–	5SU1353-7KK08	–	–	5SU1356-7KK08
	10 A	–	5SU1353-7KK10	5SU1353-7KL10	5SU1356-6KK10	5SU1356-7KK10
		■	–	–	5SU1356-6GV10	5SU1356-7GV10
	13 A	–	5SU1353-7KK13	–	5SU1356-6KK13	5SU1356-7KK13
	16 A	–	5SU1353-7KK16	5SU1353-7KL16	5SU1356-6KK16	5SU1356-7KK16
		■	–	–	5SU1356-6GV16	5SU1356-7GV16
	20 A	–	5SU1353-7KK20	5SU1353-7KL20	5SU1356-6KK20	5SU1356-7KK20
	25 A	–	5SU1353-7KK25	5SU1353-7KL25	5SU1356-6KK25	5SU1356-7KK25
	32 A	–	5SU1353-7KK32	5SU1353-7KL32	5SU1356-6KK32	5SU1356-7KK32
	40 A	–	5SU1353-7KK40	5SU1353-7KL40	5SU1356-6KK40	5SU1356-7KK40
300 mA	6 A	–	5SU1653-7KK06	–	5SU1656-6KK06	5SU1656-7KK06
	10 A	–	5SU1653-7KK10	–	5SU1656-6KK10	5SU1656-7KK10
	13 A	–	5SU1653-7KK13	–	5SU1656-6KK13	5SU1656-7KK13
	16 A	–	5SU1653-7KK16	–	5SU1656-6KK16	5SU1656-7KK16
	20 A	–	5SU1653-7KK20	–	5SU1656-6KK20	5SU1656-7KK20
	25 A	–	5SU1653-7KK25	–	5SU1656-6KK25	5SU1656-7KK25
	32 A	–	5SU1653-7KK32	–	5SU1656-6KK32	5SU1656-7KK32
	40 A	–	5SU1653-7KK40	–	5SU1656-6KK40	5SU1656-7KK40

Mounting concept



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

AFDD	Arc fault detection device	See page 4/50
AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Instantaneous		Short-time delayed [G], Super resistant [K]	
230 V AC		230 V AC	
2 MW		2 MW	
10 kA		10 kA	
Right		Right	
Characteristic		Characteristic	
B	C	B	C
5SU1154-6KK06	5SU1154-7KK06	–	–
5SU1154-6KK10	5SU1154-7KK10	–	–
5SU1154-6KK13	5SU1154-7KK13	–	–
5SU1154-6KK16	5SU1154-7KK16	–	–
5SU1354-6KK06	5SU1354-7KK06	–	–
5SU1354-6GV06	5SU1354-7GV06	–	–
–	5SU1354-7KK08	–	–
5SU1354-6KK10	5SU1354-7KK10	5SU1354-6LB10	5SU1354-7LB10
5SU1354-6GV10	5SU1354-7GV10	–	–
5SU1354-6KK13	5SU1354-7KK13	5SU1354-6LB13	5SU1354-7LB13
5SU1354-6KK16	5SU1354-7KK16	5SU1354-6LB16	5SU1354-7LB16
5SU1354-6GV16	5SU1354-7GV16	–	–
5SU1354-6KK20	5SU1354-7KK20	5SU1354-6LB20	5SU1354-7LB20
5SU1354-6KK25	5SU1354-7KK25	5SU1354-6LB25	5SU1354-7LB25
5SU1354-6KK32	5SU1354-7KK32	5SU1354-6LB32	5SU1354-7LB32
5SU1354-6KK40	5SU1354-7KK40	5SU1354-6LB40	5SU1354-7LB40
5SU1654-6KK06	5SU1654-7KK06	–	–
5SU1654-6KK10	5SU1654-7KK10	–	–
5SU1654-6KK13	5SU1654-7KK13	–	–
5SU1654-6KK16	5SU1654-7KK16	–	–
5SU1654-6KK20	5SU1654-7KK20	–	–
5SU1654-6KK25	5SU1654-7KK25	–	–
5SU1654-6KK32	5SU1654-7KK32	–	–
5SU1654-6KK40	5SU1654-7KK40	–	–

Accessories

Auxiliary switches (AS)		Article No.
1 NO contact + 1 NC contact	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

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

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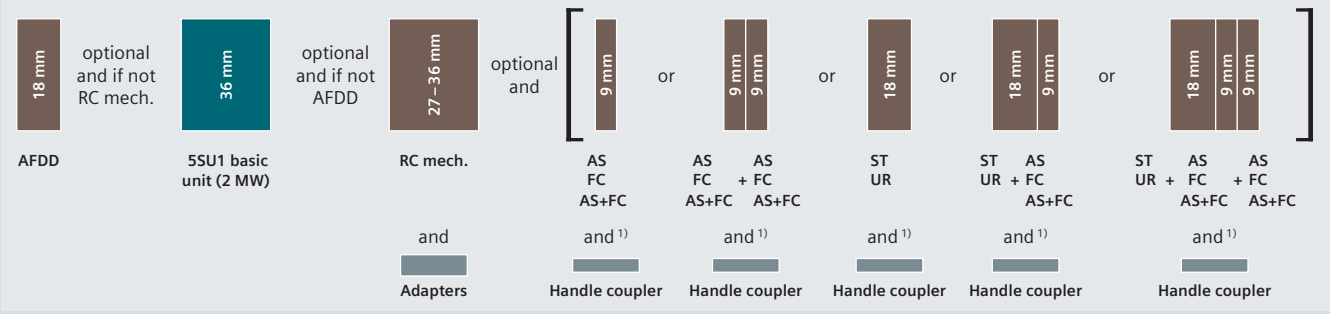
5SU1 RCBOs

Type F, 1P+N

	Super resistant [K] 230 V AC
Mounting width	2 MW
Short-circuit breaking capacity	10 kA
N connection	Right

$I_{\Delta n}$	I_n	Characteristic B	Characteristic C
Type F			
30 mA	6 A	5SU1354-3KK06	5SU1354-4KK06
	10 A	5SU1354-3KK10	5SU1354-4KK10
	13 A	5SU1354-3KK13	5SU1354-4KK13
	16 A	5SU1354-3KK16	5SU1354-4KK16
	20 A	5SU1354-3KK20	5SU1354-4KK20
	25 A	5SU1354-3KK25	5SU1354-4KK25
	32 A	5SU1354-3KK32	5SU1354-4KK32
	40 A	5SU1354-3KK40	5SU1354-4KK40

Mounting concept



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

AFDD	Arc fault detection device	See page 4/50
AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Accessories

Auxiliary switches (AS)		Article No.
1 NO contact + 1 NC contact	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

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

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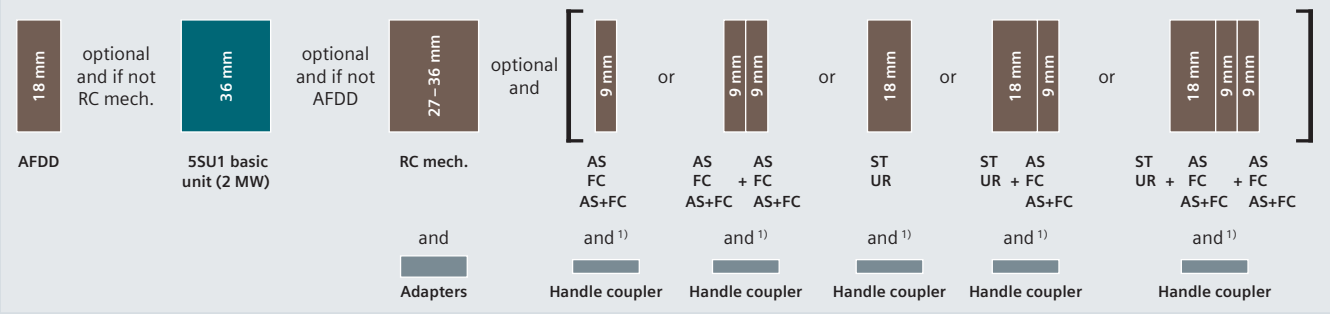
5SU1 RCBOs

Type AC, 1P+N

			Instantaneous 230 V AC			
		Mounting width	2 MW	2 MW	2 MW	
		Short-circuit breaking capacity	4.5 kA	4.5 kA	6 kA	
		N connection	Right	Left	Right	
$I_{\Delta n}$	I_n	Bulk packaging (36 units)	Characteristic C	C	Characteristic B	C
Type AC						
30 mA	6 A	–	5SU1353-1KK06	5SU1353-1KL06	5SU1356-0KK06	5SU1356-1KK06
	8 A	–	5SU1353-1KK08	–	–	5SU1356-1KK08
	10 A	–	5SU1353-1KK10	5SU1353-1KL10	5SU1356-0KK10	5SU1356-1KK10
		■	5SU1353-1GV10	–	–	–
	13 A	–	5SU1353-1KK13	5SU1353-1KL13	5SU1356-0KK13	5SU1356-1KK13
	16 A	–	5SU1353-1KK16	5SU1353-1KL16	5SU1356-0KK16	5SU1356-1KK16
		■	5SU1353-1GV16	–	–	5SU1356-1GV16
	20 A	–	5SU1353-1KK20	5SU1353-1KL20	5SU1356-0KK20	5SU1356-1KK20
	25 A	–	5SU1353-1KK25	5SU1353-1KL25	5SU1356-0KK25	5SU1356-1KK25
	32 A	–	5SU1353-1KK32	5SU1353-1KL32	5SU1356-0KK32	5SU1356-1KK32
	40 A	–	5SU1353-1KK40	5SU1353-1KL40	5SU1356-0KK40	5SU1356-1KK40
100 mA	6 A	–	–	–	–	–
	10 A	–	–	–	–	–
	13 A	–	–	–	–	–
	16 A	–	–	–	–	–
	20 A	–	–	–	–	–
	25 A	–	–	–	–	–
	32 A	–	–	–	–	–
	40 A	–	–	–	–	–
300 mA	6 A	–	5SU1653-1KK06	5SU1653-1KL06	5SU1656-0KK06	5SU1656-1KK06
	10 A	–	5SU1653-1KK10	5SU1653-1KL10	5SU1656-0KK10	5SU1656-1KK10
	13 A	–	5SU1653-1KK13	5SU1653-1KL16	5SU1656-0KK13	5SU1656-1KK13
	16 A	–	5SU1653-1KK16	–	5SU1656-0KK16	5SU1656-1KK16
		■	5SU1653-1GV16	–	–	–
	20 A	–	5SU1653-1KK20	5SU1653-1KL20	5SU1656-0KK20	5SU1656-1KK20
	25 A	–	5SU1653-1KK25	5SU1653-1KL25	5SU1656-0KK25	5SU1656-1KK25
	32 A	–	5SU1653-1KK32	5SU1653-1KL32	5SU1656-0KK32	5SU1656-1KK32
	40 A	–	5SU1653-1KK40	5SU1653-1KL40	5SU1656-0KK40	5SU1656-1KK40

Mounting concept



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

AFDD	Arc fault detection device	See page 4/50
AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58
ST	Shunt trips	See page 4/59
UR	Undervoltage release	See page 4/60
RC mech.	Remote controlled mechanism	See page 4/61

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Instantaneous 230 V AC		Short-time delayed [G], Super resistant [K] 230 V AC	
2 MW		2 MW	
10 kA		10 kA	
Right		Right	
Characteristic		**Characteristic**	
B	**C**	**B**	**C**
5SU1354-0KK06	5SU1354-1KK06	–	–
–	5SU1354-1KK08	–	–
5SU1354-0KK10	5SU1354-1KK10	5SU1354-0LB10	5SU1354-1LB10
–	–	–	–
5SU1354-0KK13	5SU1354-1KK13	5SU1354-0LB13	5SU1354-1LB13
5SU1354-0KK16	5SU1354-1KK16	5SU1354-0LB16	5SU1354-1LB16
–	–	–	–
5SU1354-0KK20	5SU1354-1KK20	5SU1354-0LB20	5SU1354-1LB20
5SU1354-0KK25	5SU1354-1KK25	5SU1354-0LB25	5SU1354-1LB25
5SU1354-0KK32	5SU1354-1KK32	5SU1354-0LB32	5SU1354-1LB32
5SU1354-0KK40	5SU1354-1KK40	5SU1354-0LB40	5SU1354-1LB40
–	5SU1454-1KK06	–	–
–	5SU1454-1KK10	–	–
–	5SU1454-1KK13	–	–
–	5SU1454-1KK16	–	–
–	5SU1454-1KK20	–	–
–	5SU1454-1KK25	–	–
–	5SU1454-1KK32	–	–
–	5SU1454-1KK40	–	–
5SU1654-0KK06	5SU1654-1KK06	–	–
5SU1654-0KK10	5SU1654-1KK10	–	–
5SU1654-0KK13	5SU1654-1KK13	–	–
5SU1654-0KK16	5SU1654-1KK16	–	–
–	–	–	–
5SU1654-0KK20	5SU1654-1KK20	–	–
5SU1654-0KK25	5SU1654-1KK25	–	–
5SU1654-0KK32	5SU1654-1KK32	–	–
5SU1654-0KK40	5SU1654-1KK40	–	–

Accessories

Auxiliary switches (AS)		Article No.
1 NO contact + 1 NC contact	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

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

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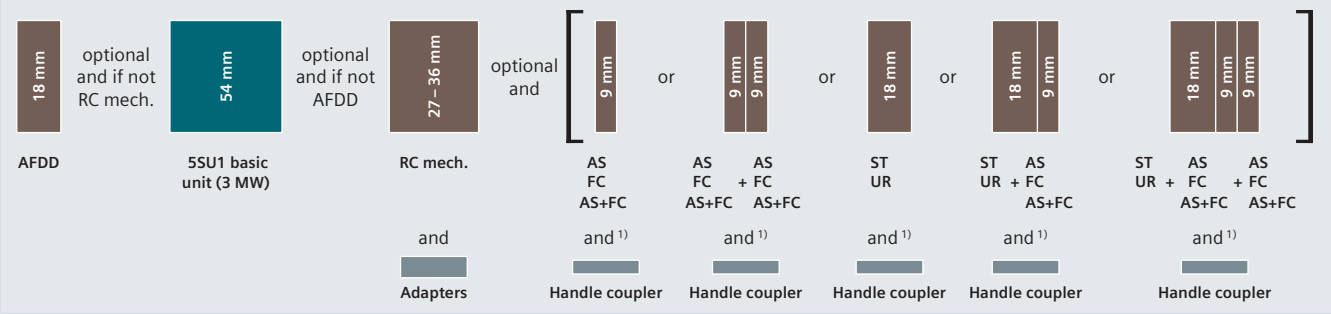
5SU1 RCBOs

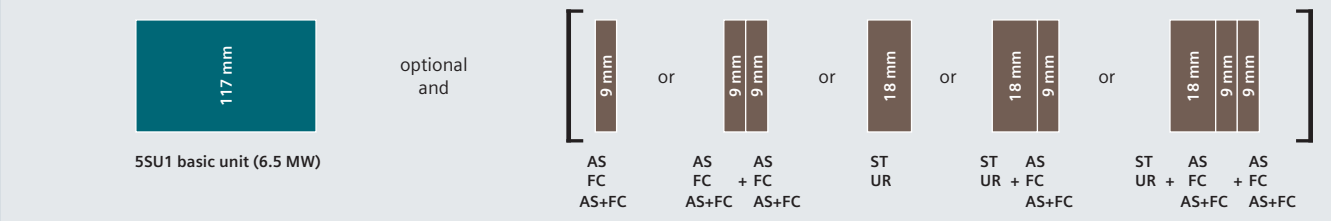
Type A and AC, 2-pole

		Instantaneous		
		110 V AC		230 V AC
Mounting width		3 MW		3 MW
Short-circuit breaking capacity		10 kA		10 kA
$I_{\Delta n}$	I_n	Characteristic		Characteristic
		B	C	B
Type A				
30 mA	6 A	5SU1324-6KX06	5SU1324-7KX06	5SU1324-6FA06
	10 A	5SU1324-6KX10	5SU1324-7KX10	5SU1324-6FA10
	13 A	5SU1324-6KX13	5SU1324-7KX13	5SU1324-6FA13
	16 A	5SU1324-6KX16	5SU1324-7KX16	5SU1324-6FA16
	20 A	5SU1324-6KX20	5SU1324-7KX20	5SU1324-6FA20
	25 A	5SU1324-6KX25	5SU1324-7KX25	5SU1324-6FA25
	32 A	5SU1324-6KX32	5SU1324-7KX32	5SU1324-6FA32
	40 A	5SU1324-6KX40	5SU1324-7KX40	5SU1324-6FA40
	125 A	–	–	–
300 mA	125 A	–	–	–
Type AC				
30 mA	125 A	–	–	–
300 mA	125 A	–	–	–

Mounting concept



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



AFDD	Arc fault detection device	See page 4/50	AS+FC	Auxiliary switch and fault signal contact	See page 4/58	UR	Undervoltage release	See page 4/60
AS	Auxiliary switch	See page 4/54	ST	Shunt trips	See page 4/59	RC mech.	Remote controlled mechanism	See page 4/61
FC	Fault signal contact	See page 4/56						

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			Selective [S] 230 V AC	
	6.5 MW		6.5 MW	
	10 kA		10 kA	
	Characteristic		Characteristic	
C	B	C	B	C
5SU1324-7FA06	–	–	–	–
5SU1324-7FA10	–	–	–	–
5SU1324-7FA13	–	–	–	–
5SU1324-7FA16	–	–	–	–
5SU1324-7FA20	–	–	–	–
5SU1324-7FA25	–	–	–	–
5SU1324-7FA32	–	–	–	–
5SU1324-7FA40	–	–	–	–
–	5SU1324-6KK82	5SU1324-7KK82	–	–
–	5SU1624-6KK82	5SU1624-7KK82	5SU1624-6WK82	5SU1624-7WK82
–	5SU1324-0KK82	5SU1324-1KK82	–	–
–	5SU1624-0KK82	5SU1624-1KK82	–	–

4

Accessories

Auxiliary switches (AS)		Article No.
1 NO contact + 1 NC contact	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO contacts	Standard	5ST3011
	For low power	5ST3014
2 NC contacts	Standard	5ST3012
	For low power	5ST3015
1 CO contact	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO contact + 1 NC contact		5ST3020
2 NO contacts		5ST3021
2 NC contacts		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

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

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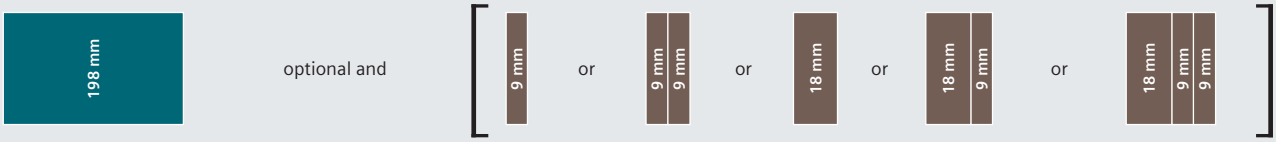
5SU1 RCBOs

Type A and AC, 4-pole

		Instantaneous 400 V AC		Selective [S] 400 V AC	
Mounting width		11 MW		11 MW	
Short-circuit breaking capacity		10 kA		10 kA	
$I_{\Delta n}$	I_n	Characteristic B	C	Characteristic B	C
Type A					
30 mA	125 A	5SU1344-6KK82	5SU1344-7KK82	–	–
300 mA	125 A	5SU1644-6KK82	5SU1644-7KK82	5SU1644-6WK82	5SU1644-7WK82
1000 mA	125 A	–	–	5SU1844-6WK82	5SU1844-7WK82
Type AC					
30 mA	125 A	5SU1344-0KK82	5SU1344-1KK82	–	–
300 mA	125 A	5SU1644-0KK82	5SU1644-1KK82	–	–

4

Mounting concept



AS Auxiliary switch See page 4/54
FC Fault signal contact See page 4/56
AS+FC Auxiliary switch and fault signal contact See page 4/58

ST Shunt trips See page 4/59
UR Undervoltage release See page 4/60

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Type B and B+, 4-pole

		Super resistant [K]			Selective [S]	
		400 V AC		480 V AC	400 V AC	
Mounting width		11 MW		11 MW	11 MW	
Short-circuit breaking capacity		10 kA		10 kA	10 kA	
$I_{\Delta n}$	I_n	Characteristic		Characteristic	Characteristic	
		C	D	C	C	D
Type B						
30 mA	100 A	5SU1374-7AK81	5SU1374-8AK81	–	–	–
	125 A	5SU1374-7AK82	–	–	–	–
300 mA	100 A	5SU1674-7AK81	5SU1674-8AK81	5SU1674-7CK81	–	5SU1674-8BK81
	125 A	5SU1674-7AK82	–	5SU1674-7CK82	5SU1674-7BK82	–
Type B+						
30 mA	100 A	5SU1374-7DK81	5SU1374-8DK81	–	–	–
	125 A	5SU1374-7DK82	–	–	–	–
300 mA	100 A	5SU1674-7DK81	5SU1674-8DK81	5SU1674-7FK81	–	5SU1674-8EK81
	125 A	5SU1674-7DK82	–	5SU1674-7FK82	5SU1674-7EK82	–

4

Accessories

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

Auxiliary switches and fault signal contacts (AS+FC)		Article No.
1 CO contact (AS) + 1 CO contact (FC)		5ST3062
Shunt trips (ST)		**Article No.**
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01
Undervoltage releases (UR)		**Article No.**
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045

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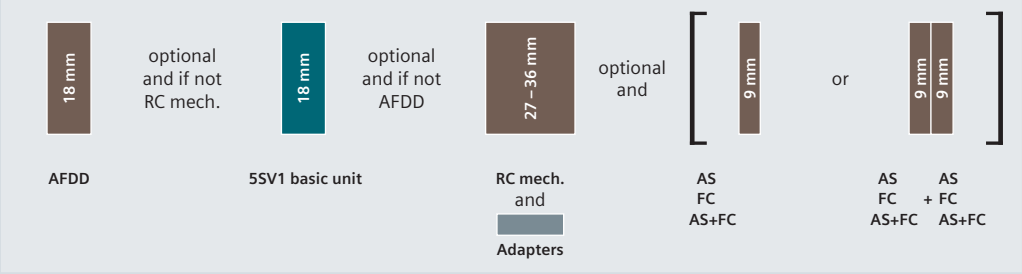
5SV1 RCBOs

Type A, 1P+N

			Instantaneous 230 V AC				Short-time delayed [G], Super resistant [K] new 230 V AC	
		Mounting width	1 MW		1 MW		1 MW	
		Short-circuit breaking capacity	4.5 kA		6 kA		6 kA	
		N connection	Right		Right		Right	
$I_{\Delta n}$	I_n	Bulk packaging (12 units)	Characteristic B	C	Characteristic B	C	Characteristic B	C
Type A								
30 mA	2 A	–	–	5SV1313-7KK02	–	5SV1316-7KK02	–	–
	4 A	–	–	5SV1313-7KK04	–	5SV1316-7KK04	–	–
	6 A	–	5SV1313-6KK06	5SV1313-7KK06	5SV1316-6KK06	5SV1316-7KK06	5SV1316-6LK06	5SV1316-7LK06
		■	–	–	5SV1316-6GV06	5SV1316-7GV06	–	–
	10 A	–	5SV1313-6KK10	5SV1313-7KK10	5SV1316-6KK10	5SV1316-7KK10	5SV1316-6LK10	5SV1316-7LK10
		■	–	–	5SV1316-6GV10	5SV1316-7GV10	–	–
	13 A	–	5SV1313-6KK13	5SV1313-7KK13	5SV1316-6KK13	5SV1316-7KK13	5SV1316-6LK13	5SV1316-7LK13
		■	–	–	5SV1316-6GV13	5SV1316-7GV13	–	–
	16 A	–	5SV1313-6KK16	5SV1313-7KK16	5SV1316-6KK16	5SV1316-7KK16	5SV1316-6LK16	5SV1316-7LK16
		■	–	–	5SV1316-6GV16	5SV1316-7GV16	–	–
300 mA new	2 A	–	–	5SV1613-7KK02	–	5SV1616-7KK02	–	–
	4 A	–	–	5SV1613-7KK04	–	5SV1616-7KK04	–	–
	6 A	–	5SV1613-6KK06	5SV1613-7KK06	5SV1616-6KK06	5SV1616-7KK06	–	–
	10 A	–	5SV1613-6KK10	5SV1613-7KK10	5SV1616-6KK10	5SV1616-7KK10	–	–
	13 A	–	5SV1613-6KK13	5SV1613-7KK13	5SV1616-6KK13	5SV1616-7KK13	–	–
	16 A	–	5SV1613-6KK16	5SV1613-7KK16	5SV1616-6KK16	5SV1616-7KK16	–	–

Mounting concept



AFDD	Arc fault detection device	See page 4/50	AS+FC	Auxiliary switch and fault signal contact	See page 4/58
AS	Auxiliary switch	See page 4/54	RC mech.	Remote controlled mechanism	See page 4/61
FC	Fault signal contact	See page 4/56			

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Type F and AC, 1P+N

			Instantaneous 230 V AC			Super resistant [K] new 230 V AC	
		Mounting width	1 MW	1 MW		1 MW	
		Short-circuit breaking capacity	4.5 kA	6 kA		6 kA	
		N connection	Right	Right		Right	
$I_{\Delta n}$	I_n	Bulk packaging (12 units)	Characteristic C	Characteristic B	C	Characteristic B	C
Type F							
30 mA	6 A		–	–	–	5SV1316-3KK06	5SV1316-4KK06
	10 A		–	–	–	5SV1316-3KK10	5SV1316-4KK10
	13 A		–	–	–	5SV1316-3KK13	5SV1316-4KK13
	16 A		–	–	–	5SV1316-3KK16	5SV1316-4KK16
Type AC							
30 mA	2 A	–	5SV1313-1KK02	–	5SV1316-1KK02	–	–
	4 A	–	5SV1313-1KK04	–	5SV1316-1KK04	–	–
	6 A	–	5SV1313-1KK06	5SV1316-0KK06	5SV1316-1KK06	–	–
	10 A	–	5SV1313-1KK10	5SV1316-0KK10	5SV1316-1KK10	–	–
		■	5SV1313-1GV10	–	5SV1316-1GV10	–	–
	13 A	–	5SV1313-1KK13	5SV1316-0KK13	5SV1316-1KK13	–	–
	16 A	–	5SV1313-1KK16	5SV1316-0KK16	5SV1316-1KK16	–	–
		■	5SV1313-1GV16	–	5SV1316-1GV16	–	–
300 mA new	2 A	–	5SV1613-1KK02	–	5SV1616-1KK02	–	–
	4 A	–	5SV1613-1KK04	–	5SV1616-1KK04	–	–
	6 A	–	5SV1613-1KK06	5SV1616-0KK06	5SV1616-1KK06	–	–
	10 A	–	5SV1613-1KK10	5SV1616-0KK10	5SV1616-1KK10	–	–
	13 A	–	5SV1613-1KK13	5SV1616-0KK13	5SV1616-1KK13	–	–
	16 A	–	5SV1613-1KK16	5SV1616-0KK16	5SV1616-1KK16	–	–

Accessories

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

Remote controlled (RC) mechanisms		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
Adapter for RC mechanism		**Article No.**
1 MW		5ST3820-6
Arc fault detection devices (AFDD)		**Article No.**
For 5SV1 basic units	I_n up to 16 A	5SM6011-2

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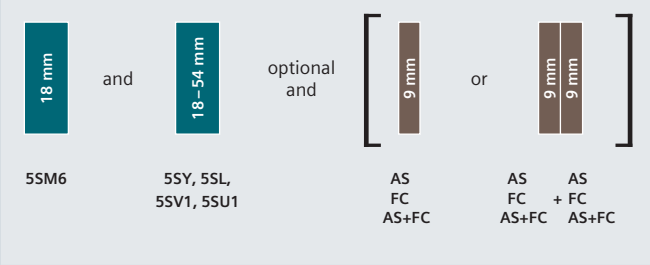
5SM6 arc fault detection devices

For combination with an MCB or RCBO

For combination with basic units			Rated current I_n	
Width of basic unit	Miniature circuit breakers	RCBO		
1 MW	5SL60 (no KL types)	5SV1	Up to 16 A	5SM6011-2
			Up to 40 A	5SM6014-2
2 MW	5SY [1], 5SL4 (only 1+N devices)	5SU1 (2 MW, 3 MW)	Up to 16 A	5SM6021-2
			Up to 40 A	5SM6024-2

[1] but not for 5SY5 or 5SY8

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58

The mounting concept shown is only one example of how devices and accessories can be combined.

Accessories

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

See suitable busbars, page 4/64 onwards
See suitable terminals and end caps, page 4/64 onwards

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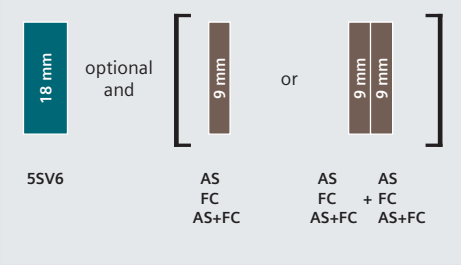
5SV6 arc fault detection devices

With integrated miniature circuit breaker

Mounting width		1 MW		1 MW pigtail	
Rated current I_n	**Bulk packaging (12 units)**	**Characteristic B**	**C**	**Characteristic B**	**C**
6 A	–	5SV6016-6KK06	5SV6016-7KK06	5SV6016-6KP06 new	5SV6016-7KP06 new
	■	5SV6016-6GV06	5SV6016-7GV06	–	–
10 A	–	5SV6016-6KK10	5SV6016-7KK10	5SV6016-6KP10 new	5SV6016-7KP10 new
	■	5SV6016-6GV10	5SV6016-7GV10	–	–
13 A	–	5SV6016-6KK13	5SV6016-7KK13	5SV6016-6KP13 new	5SV6016-7KP13 new
	■	5SV6016-6GV13	–	–	–
16 A	–	5SV6016-6KK16	5SV6016-7KK16	5SV6016-6KP16 new	5SV6016-7KP16 new
	■	5SV6016-6GV16	5SV6016-7GV16	–	–
20 A	–	5SV6016-6KK20	5SV6016-7KK20	5SV6016-6KP20 new	5SV6016-7KP20 new
25 A	–	5SV6016-6KK25	5SV6016-7KK25	5SV6016-6KP25 new	5SV6016-7KP25 new
	■	5SV6016-6GV25	–	–	–
32 A	–	5SV6016-6KK32	5SV6016-7KK32	5SV6016-6KP32 new	5SV6016-7KP32 new
40 A	–	5SV6016-6KK40	5SV6016-7KK40	5SV6016-6KP40 new	5SV6016-7KP40 new

4

Mounting concept



AS	Auxiliary switch	See page 4/54
FC	Fault signal contact	See page 4/56
AS+FC	Auxiliary switch and fault signal contact	See page 4/58

Accessories

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

See suitable busbars, page 4/64 onwards
See suitable terminals and end caps, page 4/64 onwards

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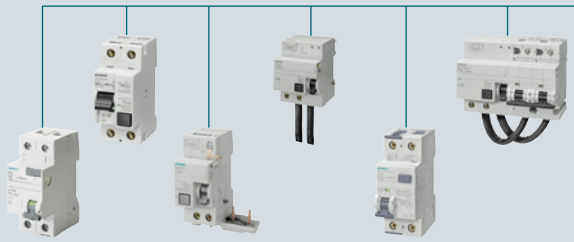
Overview of modular system

Residual current protective devices



			5SV	5SM3	5SM2 + LS	5SM2 + 5SP4	5SU1	5SU1 (125 A)
5SM6 arc fault detection devices		**Article No.**						
Rated current up to 16 A	Standard	5SM6021-2	–	–	–	–	■	–
	For compact devices 1P+N in 1 MW	5SM6011-2	–	–	–	–	–	–
Rated current up to 40 A	Standard	5SM6024-2	–	–	–	–	■	–
	For compact devices 1P+N in 1 MW	5SM6014-2	–	–	–	–	–	–
Auxiliary switches (AS)		**Article No.**						
1 NO contact + 1 NC contact	Standard	5ST3010	■	–	■	■	■	■
	For low power	5ST3013	■	–	■	■	■	■
	For low power (with diode)	5ST3013-0XX01	■	–	■	■	■	■
2 NO contacts	Standard	5ST3011	■	–	■	■	■	■
	For low power	5ST3014	■	–	■	■	■	■
2 NC contacts	Standard	5ST3012	■	–	■	■	■	■
	For low power	5ST3015	■	–	■	■	■	■
1 CO contact	Standard	5ST3016	■	–	■	■	■	■
Fault signal contacts (FC)		**Article No.**						
1 NO contact + 1 NC contact		5ST3020	■	–	■	■	■	■
2 NO contacts		5ST3021	■	–	■	■	■	■
2 NC contacts		5ST3022	■	–	■	■	■	■
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**						
1 CO contact (AS) + 1 CO contact (FC)	Standard	5ST3062	■	–	■	■	■	■
Shunt trips (ST)		**Article No.**						
110 ... 415 V AC, 110 ... 220 V DC		5ST3030	■	–	■	■	■	■
24 ... 48 V AC/DC		5ST3031	■	–	■	■	■	■
12 V DC		5ST3031-0XX01	■	–	■	■	■	■
Undervoltage releases (UR)		**Article No.**						
With integrated auxiliary switch	230 V AC	5ST3040	■	–	■	■	■	■
	110 V DC	5ST3041	■	–	■	■	■	■
	24 V DC	5ST3042	■	–	■	■	■	■
Without integrated auxiliary switch	230 V AC	5ST3043	■	–	■	■	■	■
	110 V DC	5ST3044	■	–	■	■	■	■
	24 V DC	5ST3045	■	–	■	■	■	■
Remote controlled (RC) mechanisms		**Article No.**						
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053	–	–	–	–	■	–
	177 ... 270 V AC	5ST3054	–	–	–	–	■	–
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055	■	–	■	–	■	–
	177 ... 270 V AC	5ST3056	■	–	■	–	■	–
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057	■	–	■	–	■	–
	177 ... 270 V AC	5ST3058	■	–	■	–	■	–
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070	■	–	■	–	■	–
Standard busbars		**Article No.**						
Cannot be cut		5ST36..	■	–	■	■	■	■
Can be cut		5ST37..	■	–	■	■	■	■
Compact busbars		**Article No.**						
Cannot be cut		5ST36..	■	–	–	–	–	–
Can be cut		5ST37..	■	–	–	–	–	–

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■ Suitable for all versions □ Suitable for some versions

System overview, page 4/4

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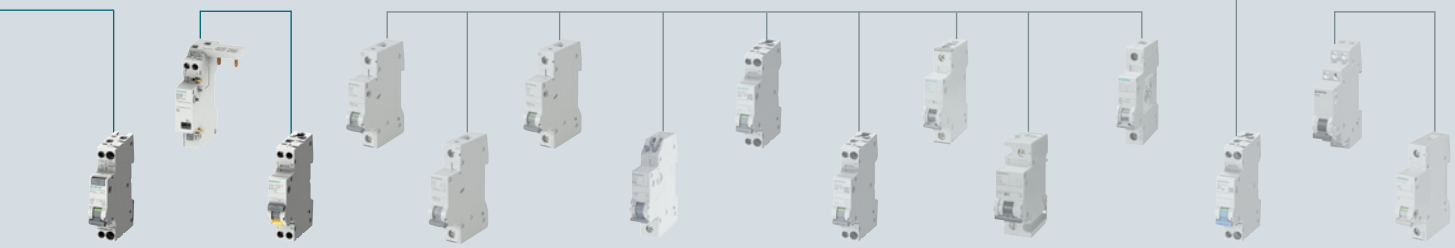
Device protection switches

Arc fault detection devices | Miniature circuit breakers | Switching devices



5SV1	5SM6	5SV6	5SL3	5SL6	5SL4	5SJ6...-.KS	5SL30	5SL60	5SY	5SP4	5SJ4..HG..	5SY17	5TE8	5TL
–	–	–	–	–	□	–	–	–	□	–	–	–	–	–
■	–	–	–	–	–	–	–	□	–	–	–	–	–	–
–	–	–	–	–	□	–	–	–	□	–	–	–	–	–
■	–	–	–	–	–	–	–	□	–	–	–	–	–	–
■	□	■	■	■	■	–	■	■	■	■	...-0HG	■	■	■
■	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	□	■	■	■	■	–	■	■	■	■	...-0HG	■	■	■
■	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	□	■	■	■	■	–	■	■	■	■	...-0HG	■	■	■
■	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	□	■	■	■	■	–	■	■	■	■	...-0HG	■	–	–
■	□	■	■	■	■	–	■	■	■	■	...-0HG	■	–	–
■	□	■	■	■	■	–	■	■	■	■	...-0HG	■	–	–
■	□	■	■	■	■	–	■	■	■	■	–	■	–	–
–	□	–	–	–	■	–	–	–	■	■	...-0HG	–	–	–
–	□	–	–	–	■	–	–	–	■	■	...-0HG	–	–	–
–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
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■	–	–	■	■	□	–	–	□	□	■	–	■	–	■
■	–	–	■	■	□	–	–	□	□	■	–	■	–	■
■	–	–	■	■	□	–	–	□	□	■	–	■	–	■
■	–	–	■	■	□	–	–	□	□	■	–	■	–	■
■	–	–	■	■	□	–	–	□	□	■	–	■	–	■
■	–	–	■	■	□	–	–	□	□	■	–	■	–	■
■	–	–	■	■	□	–	–	□	□	■	–	■	–	■
■	□	■	■	■	■	■	■	■	■	■	■	■	□	■
■	□	■	■	■	■	■	■	■	■	■	■	■	□	■
■	■	■	□	□	□	–	■	■	–	–	–	■	–	–
■	■	■	□	□	□	–	■	■	–	–	–	–	–	–
	from page 4/50		from page 3/12									from page 3/40	from page 5/6	

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Electrical accessories

Auxiliary switches (AS)

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

For combination with basic units						Contacts	Version	Width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Device protection switches	RCCBs	RCBOs	Arc fault detection devices	ON/OFF switches				
Auxiliary switches (AS)									
–	–	5SM3 (3P+N, 100/125 A)	–	–	–	1 NO contact + 1 NC contact	Standard	0.5 MW	5SW3330
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 [1], 5SV1	5SV6	5TL1, 5TE8	1 NO contact + 1 NC contact	Standard	0.5 MW	5ST3010
							For low power	0.5 MW	5ST3013
							For low power (with diode)	0.5 MW	5ST3013-0XX01
						2 NO contacts	Standard	0.5 MW	5ST3011
							For low power	0.5 MW	5ST3014
						2 NC contacts	Standard	0.5 MW	5ST3012
							For low power	0.5 MW	5ST3015
						1 CO contact	Standard	0.5 MW	5ST3016
Auxiliary switches (AS) with TEST button									
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 [1], 5SV1	5SV6	5TL1, 5TE8	1 NO contact + 1 NC contact	Standard	0.5 MW	5ST3010-2
							For low power	0.5 MW	5ST3013-2
						2 NO contacts	Standard	0.5 MW	5ST3011-2
							For low power	0.5 MW	5ST3014-2
						2 NC contacts	Standard	0.5 MW	5ST3012-2
							For low power	0.5 MW	5ST3015-2

[1] Handle coupler 5ST3805-1 required

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Further technical specifications

		5ST3010, 5ST3010-2, 5ST3011, 5ST3011-2, 5ST3012, 5ST3012-2, 5ST3016	5ST3013, 5ST3014, 5ST3015, 5ST3013-0XX01	5ST3013-2 5ST3014-2 5ST3015-2
Standards				
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1		
	UL, CSA	UL 1077, CSA C22.2 No. 235		
Contacts				
Minimum contact load		50 mA, 24 V	1 mA, 5 V DC	5 mA, 5 V DC
Maximum contact load		–	100 mA, 30 V DC	30 mA, 30 V DC
Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-13	6 A	–	
	400 V AC, AC-14	2 A	–	
	24 V DC, DC-13	6 A	–	
	60 V DC, DC-13	3 A	–	
	110 V DC, DC-13	1 A	–	
	220 V DC, DC-13	1 A	–	
Service life, on average, with rated load		20 000 actuations		
Safety				
Short-circuit protection		Miniature circuit breakers or gG 6 A fuse		
Connections				
Conductor cross-sections		0.5 ... 2.5 mm^2 (AWG 22 ... 14)		
Terminals	Max. tightening torque	0.5 Nm [4.5 lb-in]		
Environmental conditions				
Permissible ambient temperature		–25 ... +55 °C		
Permissible storage temperature		–40 ... +75 °C		
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles		
Mounting position		Any		
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s^2		
Vibration resistance at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s^2		

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Electrical accessories

Fault signal contacts (FC)

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

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For combination with basic units					Contacts	Width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Device protection switches	RCCBs	RCBO	Arc fault detection devices			
Fault signal contacts (FC)							
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 [1], 5SV1	5SV6	1 NO contact + 1 NC contact	0.5 MW	5ST3020
					2 NO contacts	0.5 MW	5ST3021
					2 NC contacts	0.5 MW	5ST3022
Fault signal contacts (FC) with Test and Reset buttons							
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 [1], 5SV1	5SV6	1 NO contact + 1 NC contact	0.5 MW	5ST3020-2
					2 NO contacts	0.5 MW	5ST3021-2
					2 NC contacts	0.5 MW	5ST3022-2

[1] Handle coupler 5ST3805-1 required

Further technical specifications

		5ST3020, 5ST3020-2 5ST3021, 5ST3021-2 5ST3022, 5ST3022-2
Standards		
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1
	UL, CSA	UL 1077, CSA C22.2 No. 235
Contacts		
Minimum contact load		50 mA, 24 V
Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-13	6 A
	400 V AC, AC-14	2 A
	24 V DC, DC-13	6 A
	60 V DC, DC-13	3 A
	110 V DC, DC-13	1 A
	220 V DC, DC-13	1 A
Service life, on average, with rated load		20 000 actuations
Safety		
Short-circuit protection		Miniature circuit breakers or gG 6 A fuse
Connections		
Conductor cross-sections		0.5 ... 2.5 mm^2 (AWG 22 ... 14)
Terminals	Max. tightening torque	0.5 Nm [4.5 lb-in]
Environmental conditions		
Permissible ambient temperature		–25 ... +55 °C
Permissible storage temperature		–40 ... +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s^2
Vibration resistance at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s^2

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Electrical accessories

Auxiliary switches and fault signal contacts (AS+FC)

- Combine the properties of both switches in a width of only 0.5 MW (9 mm)
- Signal contact point of the mounted device
- Signal the automatic tripping of the protective device in the event of a fault, such as an overload, short circuit or residual current
- If the fault signal contact is activated, the contact position does not change if the in-built protective device is tripped manually

For combination with basic units					Contacts	Width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Device protection switches	RCCBs	RCBO	Arc fault detection devices			
Auxiliary switches and fault signal contacts (AS+FC)							
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 [1], 5SV1	5SV6	1 CO contact (AS) + 1 CO contact (FC)	0.5 MW	5ST3062

[1] Handle coupler 5ST3805-1 required

Further technical specifications		5ST3062
Standards		
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1
	UL, CSA	UL 1077, CSA C22.2 No. 235
Contacts		
Minimum contact load		50 mA, 24 V
Maximum contact load		–
Contact load according to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-13	6 A
	400 V AC, AC-14	2 A
Contact load according to IEC/EN 62019 (acc. to IEC/EN 60947-5-1)	24 V DC, DC-13	3 A (3 A)
	60 V DC, DC-13	3 A (1 A)
	110 V DC, DC-13	0.5 A (0.5 A)
	220 V DC, DC-13	0.5 A (0.3 A)
Service life, on average, with rated load		20 000 actuations
Safety		
Short-circuit protection		Miniature circuit breakers or gG 6 A fuse
Connections		
Conductor cross-sections		0.5 ... 2.5 mm^2 (AWG 22 ... 14)
Terminals	Max. tightening torque	0.5 Nm [4.5 lb-in]
Environmental conditions		
Permissible ambient temperature		–25 ... +55 °C
Permissible storage temperature		–40 ... +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s^2
Vibration resistance at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s^2

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Shunt trips (ST)

- For remote-controlled tripping of the mounted device

For combination with basic units			Rated voltage U_n	Width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	RCCBs	RCBO			
Shunt trips (ST)					
5SL4, 5SY, 5SP4	5SV	5SU1 [1]	110 ... 415 V AC, 110 ... 220 V DC	1 MW	5ST3030
			AC/24 ... 48 V DC	1 MW	5ST3031
			12 V DC new	1 MW	5ST3031-0XX01

[1] Handle coupler 5ST3805-1 required

Further technical specifications

		5ST3030	5ST3031	5ST3031-0XX01
Standards				
Standards	IEC/EN	EN 60947-1		
Supply				
Primary operating range		0.7 ... 1.1 × U_n		
Rated frequency f_n		50 ... 60 Hz		–
Contacts				
Minimum contact load		50 mA, 24 V		1 mA, 5 V
Tripping operations		Max. 2000		
Service life, on average, with rated load	Actuations	20000		
Safety				
Short-circuit protection		Miniature circuit breakers B/C 6 A or fuse gG 6 A		
Connections				
Conductor cross-sections		0.5 ... 2.5 mm^2 (AWG 22 ... 14)		
Terminals	Max. tightening torque	0.8 Nm [6.8 lb-in]		
Environmental conditions				
Permissible ambient temperature		–25 ... +55 °C		–40 ... +70 °C
Permissible storage temperature		–40 ... +75 °C		
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles		
Mounting position		Any		
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s^2		
Vibration resistance at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s^2		

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Electrical accessories

Undervoltage releases (UR)

- Integrated, for example, in EMERGENCY-OFF loops
- Ensure that the mounted device trips in the event of an emergency, guaranteeing disconnection of the control circuit according to EN 60204.
- Trip the mounted device if the voltage is interrupted or too low, i.e. prevents activation of the mounted device

For combination with basic units Miniature circuit breakers	RCCBs	RCBO	Rated voltage U_n	Width (1 MW = 18 mm)	Article No.
With integrated auxiliary switch					
5SL4, 5SY, 5SP4	5SV	5SU1 [1]	230 V AC	1 MW	5ST3040
			110 V DC	1 MW	5ST3041
			24 V DC	1 MW	5ST3042
Without integrated auxiliary switch					
5SL4, 5SY, 5SP4	5SV	5SU1 [1]	230 V AC	1 MW	5ST3043
			110 V DC	1 MW	5ST3044
			24 V DC	1 MW	5ST3045

[1] Handle coupler 5ST3805-1 required

Further technical specifications

		5ST304.
Standards		
Standards	IEC/EN	EN 60947-1
Supply		
Primary operating range		0.85 ... 1.1 × U_n
Rated frequency f_n		50/60 Hz
Contacts		
Minimum contact load		50 mA, 24 V
Tripping operations		Max. 2000
Service life, on average, with rated load	Actuations	20000
Safety		
Short-circuit protection		Miniature circuit breakers B/C 6 A or fuse gG 6 A
Connections		
Conductor cross-sections		0.5 ... 2.5 mm² (AWG 22 ... 14)
Terminals	Max. tightening torque	0.8 Nm [6.8 lb-in]
Environmental conditions		
Permissible ambient temperature		–25 ... +55 °C
Permissible storage temperature		–40 ... +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s²
Vibration resistance at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²

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5ST3 remote controlled (RC) mechanisms

- For operating facilities that are extensive or not continuously staffed
- Allow direct and immediate access to the plant even if it is remote or in a location that is hard to reach
- Permit fast restarts following a fault
- Version with ARD with automatic restart
- Versions with ARD and Power with integrated auxiliary switches and fault signal contacts

Remote controlled type	Display	Ambient temperature	Vibration and shock requirements	Rated voltage U_n	Width (1 MW = 18 mm)	Article No.
Basic	–	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	1.5 MW	5ST3053
				177 ... 270 V AC	2 MW	5ST3054
Power	LED	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3055
				177 ... 270 V AC	2 MW	5ST3056
Power with ARD	LED	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3057
				177 ... 270 V AC	2 MW	5ST3058
Power with extended function	LED	–40 °C ... +70 °C	Acc. to EN 61373 / EN 50155 "1B"	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3070

4

Further technical specifications

	5ST3053	5ST3054	5ST3055	5ST3056	5ST3057	5ST3058	5ST3070
Standards							
Standards	EN 50557 (VDE 0640-20)						
Supply							
Rated frequency f_n	50 ... 60 Hz						
Rated power dissipation on standby	≤1 VA						
Contacts							
Service life, on average, with rated load Actuations	10000						
Number of remote switching operations per minute	2						
Number of automatic reclose attempts	–				3		–
Cable length in the control circuit	≤1500 m						
Sliding selector with locking device	–	■					
Integrated auxiliary switches	–		1CO; 2 A; 250 V				
Integrated fault signal contacts	–		1CO; 2 A; 250 V				
Connections							
Conductor cross-sections	0.5 ... 1.5 mm² (AWG 14 ... 30)						
Terminal tightening torque	0.2 ... 0.25 Nm (2.0 lb-in)						
Environmental conditions							
Permissible storage temperature	–40 ... +55 °C						–40 ... +70 °C
Degree of protection	IP20						
Pollution degree for overvoltage category	3/II						

Suitable adapters for combination with basic units

Basic units	Mounting width 1 MW	2 MW	3 MW	4 MW	2-pole	3-pole	4-pole	Adapters
5SU1	–	■	■	–	–	–	–	5ST3820-5
5SV1	■	–	–	–	–	–	–	5ST3820-6
5SV3	–	■	–	■	–	–	–	5ST3820-6
5SM2 with 5SY	–	–	–	–	■	–	–	5ST3820-3 + 5ST3820-1
	–	–	–	–	–	■	■	5ST3820-3 + 5ST3820-2
5SM2 with 5SL	–	–	–	–	■	–	–	5ST3820-3 + 5ST3820-6
	–	–	–	–	–	■	■	5ST3820-3 + 5ST3820-7

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Mechanical accessories

Handle couplers for additional components

- Necessary for mounting the additional components auxiliary switches, fault signal contacts, shunt trips and undervoltage releases onto the 5SU1 RCBO
- 1 set = 5 units

	Article No.
	5ST3805-1

Handle locking devices

- To prevent undesired mechanical ON/OFF switching
- Sealable and lockable
- For padlock with 3 ... 6 mm shackle

Version	Article No.
For 5SV RCCBs, 5SV1 RCBOs, 5SV6 arc fault detection devices	5ST3806
For 5SU1 RCBOs	5ST3801-1

Locking device

- For 5SV RCCBs, 5SV1 RCBOs, 5SV6 arc fault detection devices

Comprising:	Article No.
5ST3806 handle locking device and 5ST3802 padlock	5ST3807

Padlock

- For 5ST3801 and 5ST3806 handle locking devices and remote operating mechanisms 5ST3054 ... 58, 5ST3070

	Article No.
	5ST3802

Device labels

- For adhesive attachment
- For modular installation devices, such as 5SY, 5SL, 5TL1

Versions	Article No.
15 mm x 6 mm, white (WIN 098)	8WH8210-0AA35
15 mm x 6 mm, yellow (WIN 099)	8WH8210-0AA36

Covers for connection terminals

- For 5SV3 and 5SV4 residual current operated circuit breakers, sealable (2 units in plastic bag)

Mounting width	Article No.
2 MW	5SW3010
4 MW	5SW3008

Terminal covers, gray

- For surface mounting, IP40 degree of protection
- Sealable
- Can be used with 35 mm DIN rail

For width up to	Article No.
2.5 MW	5SW3004
4.5 MW	5SW3005

Wall enclosures, gray

- For flush mounting, IP40 degree of protection
- Can be used with 35 mm DIN rail

For width up to	Article No.
2.5 MW	5SW3006
4.5 MW	5SW3007

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RCCB protective socket outlets

Acc. to VDE 0664

Covers

- Can be assembled as mini-distribution board
- Suitable for all devices
- Cover parts prepared for rail mounting of conventional label caps

Comprising:	Article No.
End plates	5ST2134
Angled profile	5ST2135
Flat profile as alternative	5ST2136

RCCB protective socket outlets in molded-plastic enclosures

- Equipped with RCCB and flush-mounted SCHUKO® socket outlet
- IP54 degree of protection

Rated residual current $I_{\Delta n}$	Rated current I_n	Article No.
10 mA	16 A	5SZ9206
30 mA	16 A	5SZ9216

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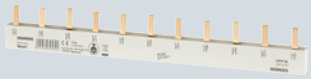
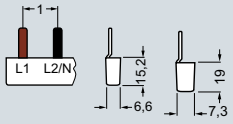
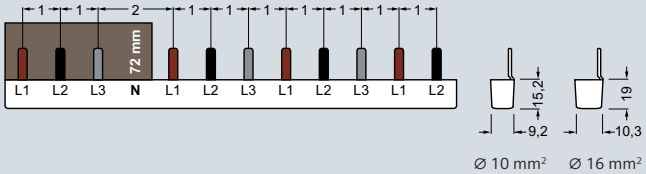
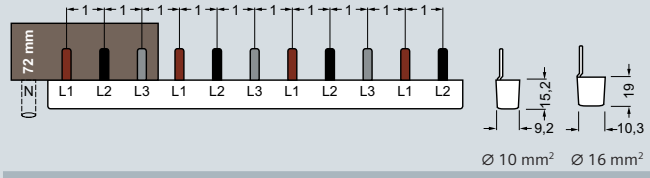
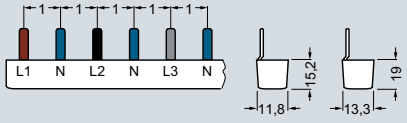
Standard busbars



5ST36, fixed lengths, cannot be cut

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	Conductor cross-section 10 mm²	16 mm²
Two-phase / single-phase + N				**Article No.**	**Article No.**
 ⌀ 10 mm² ⌀ 16 mm²	For 6× 2MW devices (2P)	12 MW	210 mm	5ST3608	5ST3638
Three-phase, for MCBs with RCCB				**Article No.**	**Article No.**
 ⌀ 10 mm² ⌀ 16 mm²	For 8 MCBs 1P with 1 RCCB 3P+N, N right	12 MW	210 mm	5ST3624	5ST3654
 ⌀ 10 mm² ⌀ 16 mm²	For 8 MCBs 1P with 1 RCCB 3P+N, N left	11 MW	192 mm	5ST3667	5ST3668
Four-phase / three-phase + N				**Article No.**	**Article No.**
 ⌀ 10 mm² ⌀ 16 mm²	For 6× 2MW devices (1P+N)	12 MW	215 mm	5ST3623	5ST3653

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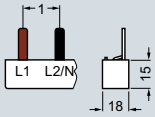
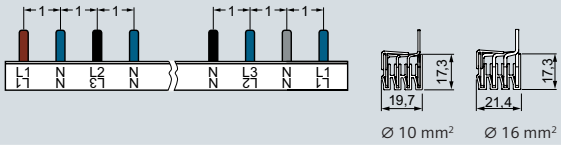
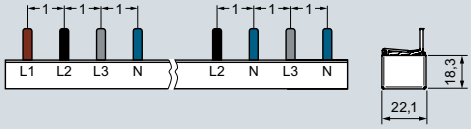
5ST37, schneidbar

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Conductor cross-section 10 mm²	Conductor cross-section 16 mm²
Two-phase / single-phase + N					**Article No.**	**Article No.**
	For 2 MW units (2P / 1+N)	12 MW	214 mm	■	5ST3734	5ST3704
		56 MW	1016 mm	–	5ST3735	5ST3705
Four-phase / three-phase + N, for MCBs with RCCB					**Article No.**	**Article No.**
	For MCBs 2P with 1 RCCB 1P+N	56 MW	1000 mm	–	5ST3770-2	5ST3770-3
	For 6 MCBs 1P+N with 1 RCCB 4P+N right	16 MW	292 mm	■	5ST3770-4	5ST3770-5

Accessories for busbars 5ST36 and 5ST37

End caps for 5ST37

Version	Article No.
For two-phase and three-phase busbars	5ST3750
For 4-phase busbars	5ST3718

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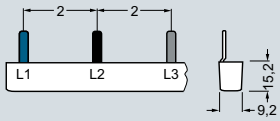
Standard busbars

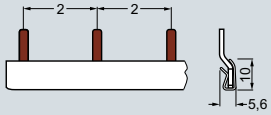
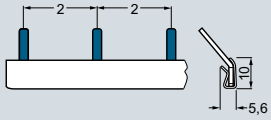
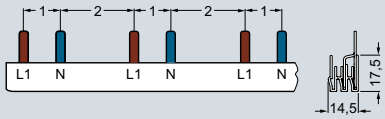
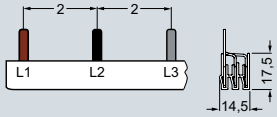
5ST36 and 5ST37

Fixed lengths, cannot be cut, for devices with add-on 5SM6 arc fault detection devices

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	Endkappen inkl.	Color	Conductor cross-section 10 mm²
Three-phase						**Article No.**
	For 5SM601	12 MW	210 mm	–	Gray	5ST3615-1

4

Can be cut, for devices with add-on 5SM6 arc fault detection devices

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	Endkappen inkl.	Color	Conductor cross-section 10 mm²
Single-phase, straight						**Article No.**
	For 5SM601.	56 MW	1000 mm	–	Gray	5ST3764-1
					Blue	5ST3765-2
Single-phase, angled 45°						**Article No.**
	For 5SM601.	56 MW	1000 mm	–	Blue	5ST3765-1
Two-phase / single-phase + N						**Article No.**
	For 5SM602. (1P+N)	56 MW	1000 mm	–	Gray	5ST3735-1
Three-phase						**Article No.**
	For 5SM601.	60 MW	1050 mm	–	Gray	5ST3740-1
Four-phase / three-phase + N						**Article No.**
	For 5SM602.	52 MW	950 mm	–	Gray	5ST3746-1

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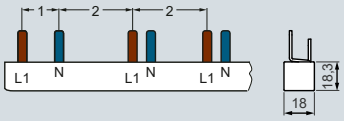
Can be cut, for devices with add-on 5SM6 arc fault detection devices and infeed via RCCB

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Color	Conductor cross-section 16 mm²
Two-phase / single-phase + N						**Article No.**
	For RCCB 2P N-right and 5 AFDD (5SM601.) + compact device	12 MW	214 mm	■	Gray	5ST3772

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Accessories

Terminals for infeed at side		Article No.
For conductors up to 25 mm²	Short	5ST3768
	Short, IP20	5ST3771-2
	Long	5ST3771-1
End caps		**Article No.**
For single-phase busbars	Gray	5ST3766
	Blue	5ST3767
For two- and three-phase busbars		5ST3750
For four-phase busbars		5ST3718
Touch protection		**Article No.**
For free connections, yellow (RAL 1004) 5× 1 pin		5ST3655

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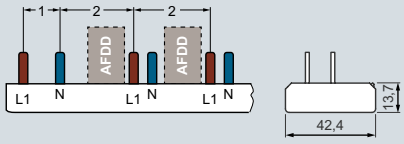
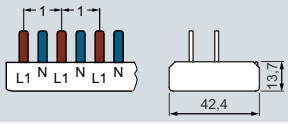
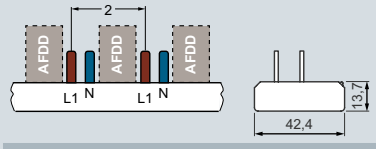
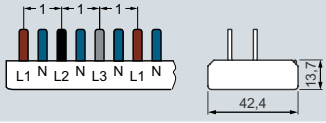
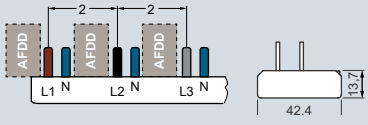
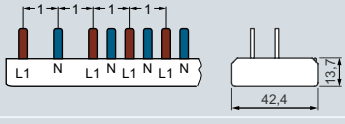
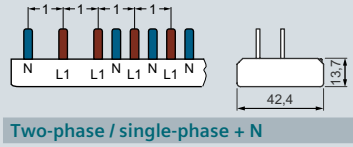
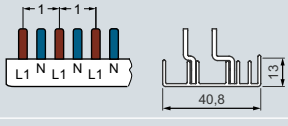
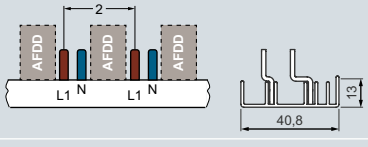
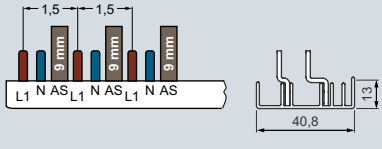
Compact busbars

5ST36, fixed lengths, cannot be cut

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Conductor cross-section 10 mm²
Two-phase / single-phase + N, for infeed via RCCB					**Article No.**
	For 1 x RCCB 1P+N and 5 x compact devices equipped with 5SM6 arc fault detection device	12 MW	216 mm	■	5ST3685-0
Two-phase / single-phase + N					**Article No.**
	For compact devices	6 MW	113 mm	■	5ST3674-6 new
		9 MW	166 mm	■	5ST3674-7 new
		12 MW	218 mm	■	5ST3674-0
	For 6 compact devices equipped with 5SM6 arc fault detection device	12 MW	200 mm	■	5ST3676-0
Four-phase / three-phase + N					**Article No.**
	For compact devices	6 MW	113 mm	■	5ST3673-6 new
		9 MW	166 mm	■	5ST3673-7 new
		12 MW	218 mm	■	5ST3673-0
		14 MW	254 mm	■	5ST3673-4 new
	For 6 compact devices equipped with 5SM6 arc fault detection device	11 MW	200 mm	■	5ST3675-0

5ST37, can be cut

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Conductor cross-section 10 mm²
Two-phase / single-phase + N, for infeed via RCCB					**Article No.**
	For 1 x RCCB 1P+N and 10 x compact devices	12 MW	215 mm	■	5ST3784-0
	For 1 x RCCB 1P+N (RCCB N left only) and 10 x compact devices	12 MW	215 mm	■	5ST3784-0KL
Two-phase / single-phase + N					**Article No.**
	For compact devices	60 MW	1060 mm	■	5ST3774-0
	For compact devices equipped with 5SM6 arc fault detection device	59 MW	1042 mm	–	5ST3776-0
	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	–	5ST3778-0

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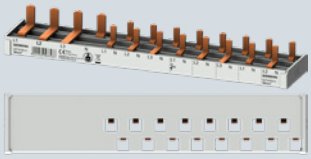
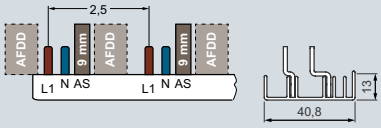
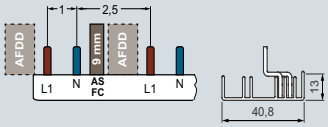
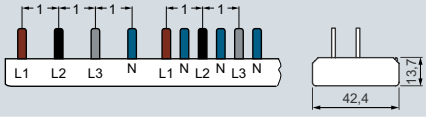
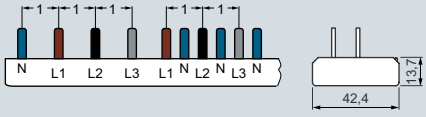
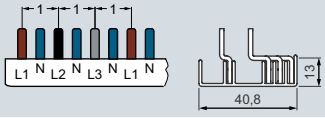
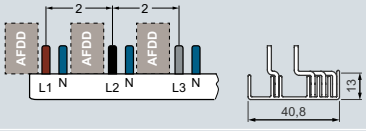
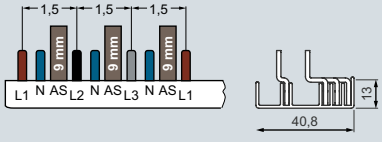


5ST37, can be cut

Pin spacings in MW (1 MW = 18 mm)	Application	Number of MWs	Length	End caps included	Conductor cross-section 10 mm²
Two-phase / single-phase + N					**Article No.**
	For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch	58.5 MW	1036 mm	–	5ST3780-0
	For 2 MW units (MCBs or RCBOs) with 5SM6 arc fault detection device and auxiliary switch	54 MW	956 mm	–	5ST3786-0
Four-phase / three-phase + N, for infeed via RCCB					**Article No.**
	For 1× RCCB 3P+N and 8× compact devices	12 MW	216 mm	■	5ST3783-0
	For 1× RCCB 3P+N (RCCB N left only) and 8× compact devices	12 MW	216 mm	■	5ST3783-0KL
Four-phase / three-phase + N					**Article No.**
	For compact devices	60 MW	1060 mm	–	5ST3773-0
	For compact devices equipped with 5SM6 arc fault detection device	59 MW	1042 mm	–	5ST3775-0
	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	–	5ST3777-0

Accessories for 5ST3 compact busbars, versions that can and cannot be cut

Touch protection for 5ST3

Version	Color	Article No.
For free connections, for pins L1, N	Yellow (RAL1004)	5ST3655
For pins L2 / L3	Yellow (RAL1004)	5ST3655-0HG

End caps for 5ST3

Version	Color	Article No.
For two-phase and four-phase busbars	Gray	5ST3788-0

Terminals, short, IP20

Version	For conductors	Infeed	Article No.
Infeed terminal for connection of larger cross section	Up to 25 mm²	Lateral	5ST3771-2

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

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Power Monitoring Made Simple
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