SIEMENS

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Low-Voltage Power Distribution and Electrical Installation Technology

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

siemens.com/lowvoltage

Catalog Extract LV 10

Edition 2025

Innovative solutions for industrial controls and power distribution

Reliable components, systems and software solutions are essential in ensuring smooth power distribution in buildings and industrial plants.

With SIRIUS, SENTRON, SIVACON and ALPHA, we offer an innovative portfolio for standard-compliant and demand-oriented applications.

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Catalog LV 10 · 2025

You will find the latest edition and all future editions in SiePortal at **www.siemens.com/lowvoltage/catalogs**

You can find the current prices in SiePortal at
www.siemens.com/lowvoltage/product-catalog

The products and systems described in this catalog are manufactured/distributed under application of a certified quality management system in accordance with EN ISO 9001 (for the Certified Registration Nos., see **www.siemens.com/system-certificates/ep**).
The certificate is recognized by all IQNet countries.

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

All illustrations are not binding.

Low-Voltage Power Distribution and Electrical Installation Technology

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 protective devices or residual current operated circuit breakers that will cut the current immediately and safely in the event of a fault.

Note:
Products bearing our Siemens EcoTech label are identified by this clickable symbol in the catalog:

Siemens EcoTech

www.siemens.com/lowvoltage/SiemensEcoTech

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

A multitude of additional information ...

Information + ordering

All the important things at a glance

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

Your product in detail

The SiePortal platform (knowledge base) provides comprehensive information
www.siemens.com/lowvoltage/product-support

- Technology Primer
  - Residual current protective devices **(109482301)**

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

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

Siemens YouTube channel

- Residual current protective devices (general)
  sie.ag/58TyMb

Everything you need for your order

Refer to SiePortal to find an overview of your products (product catalog)

- Residual current protective devices **sie.ag/2m55Y7j**
- Arc fault detection devices **sie.ag/6Chm71**

Direct forwarding to the individual products in SiePortal by clicking on the article number in the catalog or entering this web address incl. article number
www.siemens.com/product_catalog_SIEP?Article No.

Smart Control Panel Design

With the Smart Control Panel Design in the TIA Selection Tool, it is possible to design and dimension the electrical equipment of a machine in conformity with the standards – from the suitable switching devices to the correctly dimensioned cables
www.siemens.com/controlpanel/cpd

The fast track to the experts

Contact persons in your region

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

You will find further information on services at
www.siemens.com/service-offers

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

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

… can be found in our online services

Commissioning + operation

Your product in detail

The SiePortal platform (knowledge base) provides detailed technical information
www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Online Support app available for download from the **App Store** and **Play Store**
You will find further information at
www.siemens.com/support-app

Provision of 3D data (step and u3d data formats)

- SiePortal (product catalog)
  www.siemens.com/lowvoltage/product-catalog
- Image database
  www.siemens.com/lowvoltage/picturedb

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

Manuals

Manuals can be found in SiePortal at
www.siemens.com/lowvoltage/manuals

- Configuration Manual
  – Residual current protective devices/arc fault detection devices **(45303255)**
- Installation Manual
  – Circuit protection devices with communication and measuring function **(109791805)**
- System Manual
  – Circuit protection devices with communication and measuring function **(109791806)**

Face-to-face or online training

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

- 5SM6/5SV6 arc fault detection devices (WT-LVBAFDD)
- SENTRON circuit protection devices with measuring and communication function (WT-LVBCOM)
- Basic principles of electrical engineering (WT-LVBGET)
- Protection concept (WT-LVBPC)

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)

System overview

Basic units and accessories

Basic units


5SV3 RCCBs


5SM3 RCCBs


5SM2 RC units


5SU1 RCBOs


5SV1 RCBOs


5TY1 COM electronic circuit protection devices (ECPD) new


5SM6 arc fault detection units and 5SV6 AFDD/MCB and 5SV6 COM AFDD/MCB

4

Electrical accessories

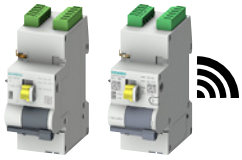

Auxiliary switches (AS)


Fault signal contacts (FC)


Auxiliary switches and fault signal contacts (AS+FC)/(AS+FC) COM


Shunt trips (ST)


Undervoltage releases (UR)


Remote control auxiliaries (RCA)/(RCA) COM new

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.

Introduction

Residual current protective devices

Selection criteria

Equipment, power, ambient conditions

Design

RCCBs
RCBOs
Electronic circuit protection devices (ECPD)
FI-Block (RC unit)

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+	■	■	■	■	■	■	■

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 creepage distances and clearances 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 $I_{\Delta n} \leq 30$ mA
Error protection $I_{\Delta n} > 30$ mA
Fire protection $I_{\Delta n} \leq 300$ mA

Characteristic CB (for residual current operated circuit breakers)

A
B
C
D

RCCBs

5SV

Types			Instantaneous	SIGRES, instantaneous	Short-time delayed [G]/[K]
Type AC			■	–	–
Type A			■	■	■
Type F			–	–	–
Type B/B+			–	–	–
Peak withstand current 8/20 µs					
Type A		kA	> 1		> 3
Type F		kA	–	–	> 3
Type B/B+		kA	–	–	–
Minimum operational voltage for operation of test equipment					
30-mA devices		V AC	195		
Non-30-mA devices		V AC	100		
24 V devices		V AC	20		
Terminal conductor cross-sections					
1 conductor	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 conductors, 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 conductor + 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 operating cycles		> 10000		
Test button test cycles			Half-yearly [1] | SIGRES annually [2] [3]		
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		
Temperature	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. humidity)		
CFC and silicone-free			■		
Mains connection			Top | bottom | SIGRES on top only		
Overvoltage category | Degree of pollution			III | 2		
Further information					
			See page 4/14		

[1] Extension to annual test interval under certain conditions, see SiePortal for details
[2] Requirement: no pollution with noxious gases (in particular, phosphorous)
[3] Extension to four-yearly test interval under certain conditions, see SiePortal for details

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5SV			SIQUENCE 5SV3			5SM3
Super resistant [K]	Selective [S]	SIGRES, selective [S]	SIGRES, super resistant [K]	SIGRES, super resistant [K], 6 mA DC	SIGRES, selective [S]	Instantaneous
–	–	–	–	–	–	■
■	■	■	–	■	–	■
■	■	–	–	■	–	–
–	–	–	■	■	■	–
> 3		> 5	–	> 1	–	> 1
> 3	–	–	–	> 3	–	–
–	–	–	> 3	> 3	> 5	–
195			70			195
100			70			195
20			–			–
0.75 ... 35			0.75 ... 35			1.5 ... 50 (2 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
24 ... 125 | 230 | 400 | 500			230 | 400			230
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), IEC/EN 62423 (VDE 0664-40)
10, 30, 100, 300, 500, 1000			30, 300, 500			30, 100, 300
16 ... 80			16 ... 80			100 ... 125
–			–			–
N right | N left			N right			N right
> 10000			> 10000			> 10000
Half-yearly [1] | SIGRES annually [2] [3]			Annually [2] [3]			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. humidity)			28 cycles (55 °C; 95% rel. humidity)			28 cycles (55 °C; 95% rel. humidity)
■			■			■
Top | bottom | SIGRES on top only			Top | bottom | SIGRES on top only			Top | bottom
III | 2			III | 2			III | 2
See page 4/14			See page 4/28			See page 4/32

System overview, page 4/4

RC units

			5SM2 (0.3 ... 63 A)
Types			**Instantaneous**
Type AC			■
Type A			■
Type F			–
Peak withstand current 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	195
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 operating 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
Temperature	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. humidity)
CFC and silicone-free			■
Mains connection			Top | bottom
Overvoltage category | Degree of pollution			III | 2
Further information			
			See page 4/34

[1] Extension to annual test interval under certain conditions, see SiePortal for details
[2] Requirement: no pollution with noxious gases (in particular, phosphorous)
[3] Extension to four-yearly test interval under certain conditions, see SiePortal for details

System overview, page 4/4

5SM2 (0.3 ... 63 A)			5SM2 (80 ... 100 A)	
Super resistant [K]	**Selective [S]**	**SIGRES, instantaneous**	**Instantaneous**	**Selective [S]**
■	■	–	■	■
■	■	■	■	■
■	–	–	–	–
> 3	> 5	> 1	> 1	> 5
> 3	–	–	–	–
195			195	
195			195	
1.0 ... 25			6.0 ... 50	
2.5 ... 3.0			2.5 ... 3.0	
2P | 3P | 4P		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	30, 300	300, 1000
0.3 ... 63			80 ... 100	
> 10000			> 10000	
Half-yearly [1]		Yearly [2] [3]	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. humidity)			28 cycles (55 °C; 95% rel. humidity)	
■			■	
Top | bottom			Top | bottom	
III | 2			III | 2	
See page 4/34			See page 4/34	

System overview, page 4/4

RCBOs

Types			5SU1 (up to 40 A)			5SV1	
			Instantaneous	Short-time delayed/ Super resistant	Selective [S]	Instantaneous	Short-time delayed/ Super resistant
Type AC			■	■	–	■	–
Type A			■	■	■	■	■
Type B			–	–	–	–	–
Type B+			–	–	–	–	–
Type F			–	■	–	–	■
Peak withstand current 8/20 µs							
Type A		kA	> 1	> 3	> 5	> 1	> 3
Type F		kA	–	> 3	–	–	> 3
Minimum voltage for operation of the test equipment							
30-mA devices		V AC	195			195	
Non-30-mA devices		V AC	100			100	
Terminal conductor cross-sections							
1 conductor at front + busbar at rear	Solid/stranded	mm^2	0.75 ... 35			0.75 ... 16	
	Finely stranded with end sleeve	mm^2	0.75 ... 25			0.75 ... 10	
	Finely stranded without end sleeve	mm^2	1 ... 25			0.75 ... 16	
2 conductors at rear	Solid/stranded	mm^2	0.75 ... 6			0.75 ... 4	
	Finely stranded with non-insulated end sleeve	mm^2	0.75 ... 4			0.75 ... 2.5	
	Finely stranded with insulated end sleeve	mm^2	0.75 ... 4			0.75 ... 1.5	
	Finely stranded without end sleeve	mm^2	1 ... 4			0.75 ... 4	
Terminal tightening torque		Nm	2.5 ... 3.0			1.2 ... 2.0	
Poles							
Number of poles			1P+N | 2P			1P+N	
Rated voltage U_n		V AC	110 | 230			230	
Operating frequency		Hz	50 | 50/60			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)			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			30, 300	
Rated current I_n		A	6 ... 40			2 ... 16	
Rated breaking capacity I_{cn}		kA	4.5 | 6 | 10			4.5 | 6	
Connection			N right | N left			N right	
Service life	Average number of operating cycles		> 10000			> 10 000	
Test button test cycles			Half-yearly [1]			Half-yearly [1]	
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, if the distribution board is installed, with connected conductors			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			Finger and back-of-hand safe	
Temperature	Storage temperature	°C	–40 ... +75 °C			–40 ... +75 °C	
	Ambient temperature	°C	–25 ... +45, marked with			–25 ... +45, marked with	
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. humidity)			28 cycles (55 °C; 95% rel. humidity)	
CFC and silicone-free			■			■	
Mains connection			Top | bottom			Top | bottom	
Energy limitation class			3			3	
Overvoltage category | Degree of pollution			III | 2			III | 2	
Further information							
			See page 4/44			See page 4/52	

[1] Extension to annual test interval under certain conditions, see SiePortal for details
[2] RCBO function conforming to IEC/EN 61009-1 (IEC/EN 62423)
[3] Applies only to terminals on the infeed side

System overview, page 4/4




5SU1 (up to 32 A)		5SU1 (125 A)		5SU1 (100 A, 125 A)		5TY1 COM new
Instantaneous	Short-time delayed/ Super resistant	Instantaneous	Short-time delayed/ Super resistant	Short-time delayed/ Super resistant	Selective [S]	
–	–	■	■	–	–	–
■	■	■	■	–	–	–
–	–	–	–	■	■	–
–	–	–	–	■	■	–
–	–	–	–	–	–	■ [2]
> 0.25	> 3	> 1	> 3	> 3	> 5	> 3
–	–	–	–	–	–	> 3
2P, 4P: 195 V | 3P: 340 V		195		195		85
2P, 4P: 195 V | 3P: 340 V		100		100		–
1 ... 35		25 ... 50		20 ... 50		0.75 ... 16 [3]
1 ... 35		25 ... 35		25 ... 35		0.75 ... 10
–		–		–		0.75 ... 16
–		–		–		0.75 ... 4
–		–		–		0.75 ... 2.5
–		–		–		0.75 ... 1.5
–		–		–		0.75 ... 4
2.0		3.0 ... 3.5		3.0 ... 3.5		1.2 ... 2
2P | 3P | 4P		2P | 4P		4P		1P+N
230 | 400		230 | 400		400 | 430		230
50 | 50/60		50 | 50/60		50/60		50
IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21)		IEC/EN 61009-1 (VDE 0664-20), IEC/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)		CE
30, 300		30, 300, 1000		30, 300		30
6 ... 32		125		100, 125		6 ... 16
6 | 10		10		10		75
–		N right | N left		N right | N left		N right
> 10000		> 10000		> 10000		> 10000
Monthly		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		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		Finger and back-of-hand safe
–40 ... +70 °C		–40 ... +75 °C		–40 ... +75 °C		–40 ... +75 °C
–25 ... +40, marked with ⎈		–25 ... +45, marked with ⎈		–25 ... +45, marked with ⎈		–25 ... +45, marked with ⎈
28 cycles (55 °C; 95% rel. humidity)		28 cycles (55 °C; 95% rel. humidity)		28 cycles (55 °C; 95% rel. humidity)		–
–		■		■		■
Top | bottom		Top | bottom		Top | bottom		Bottom
3 | 1		3		3		3
III | 3		III | 2		III | 2		III | 2
See page 4/46		See page 4/48		See page 4/51		See page 4/54

System overview, page 4/4

Arc fault detection devices (AFDDs)

			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 operating cycles		> 10000	> 10000	> 10000
Mounting position			Any	Any	Any
Degree of protection	Acc. to EN 60529 (VDE 0470-1)		IP20, with connected conductors	IP20, with connected conductors	IP20, with connected conductors
Touch protection	Acc. to EN 50274 (VDE 0660-514)		Finger and back-of-hand safe	Finger and back-of-hand safe	Finger and back-of-hand safe
Temperature	Storage temperature	°C	–40 ... +75 °C	–40 ... +75 °C	–40 ... +75 °C
	Ambient temperature	°C	–25 ... +45, marked with	–25 ... +45, marked with	–25 ... +45, marked with
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles (55 °C; 95% rel. humidity)	28 cycles (55 °C; 95% rel. humidity)	28 cycles (55 °C; 95% rel. humidity)
CFC and silicone-free			■	■	■
Mains connection			Bottom	Top | bottom	Bottom
Overvoltage category | Degree of pollution			III | 2	III | 2	III | 2
Tripping in the event of overvoltage		V	> 275	> 285	> 285
Additional functions					
Measuring and communication function			–	■	–
Further information					
			See page 4/56	See page 4/57 and page 4/14	See page 4/57

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System overview, page 4/4

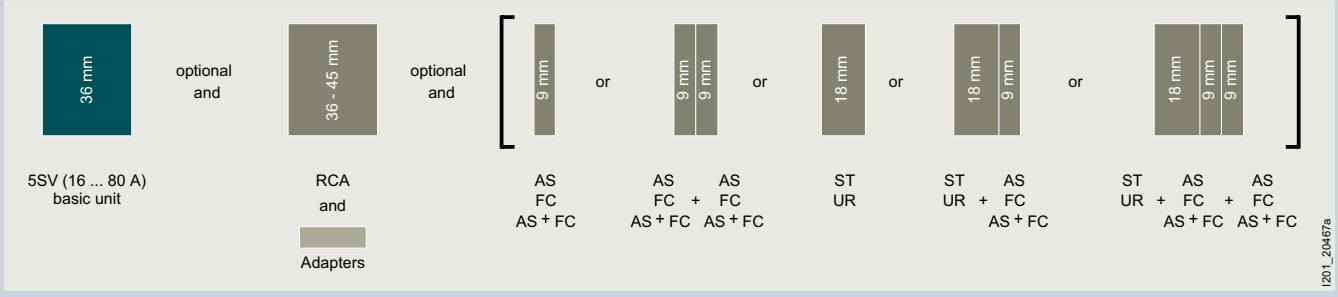
5SV RCCBs

Type A, 1P+N

				Instantaneous			Instantaneous (only available in Belgium) [2]
			Rated voltage U_n	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	–
	25 A	–	–	–	5SV3112-6	–	–
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 OVE E 8101 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 switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

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SIGRES, instantaneous	Short-time delayed [G]	Super resistant [K]	Selective [S]		SIGRES, super resistant [K], 6 mA DC
230 V AC	230 V AC	230 V AC	230 V AC		230 V AC
Right	Right	Right	Right	Left	Right
					
–	–	–	–	–	–
–	–	–	–	–	–
5SV3311-6KK12	–	–	–	–	–
–	–	–	–	–	–
5SV3312-6KK12	–	5SV3312-6KK01	–	–	5SV3322-6KK60
–	–	–	–	–	–
5SV3314-6KK12	–	5SV3314-6KK01	–	–	5SV3324-6KK60
–	–	–	–	–	–
–	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 + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO (AS) + 1 CO (FC)		5ST3062
5ST3 COM (AS+FC)		5ST3062-0MC

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 control auxiliaries (RCA)		**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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new
Adapters for remote control auxiliaries (RCA)		**Article No.**
2 MW		5ST3820-6

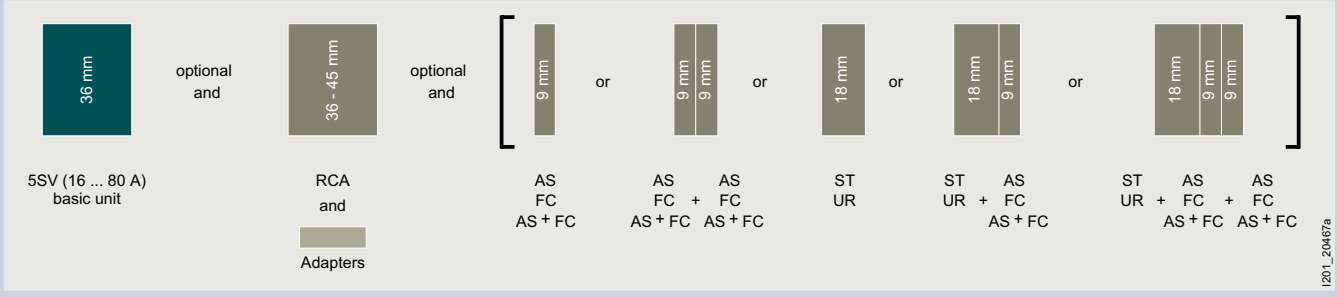
Quick selection guide, page 4/6

5SV RCCBs

Type F, 1P+N

		Super resistant [K]	Selective [S]	SIGRES, super resistant [K], 6 mA DC
	Rated voltage U_n	230 V AC	230 V AC	230 V AC
	N connection	Right	Right	Right
				
$I_{\Delta n}$	I_n			
Type F				
30 mA	25 A	5SV3312-3	–	5SV3322-3KK60
	40 A	5SV3314-3	–	5SV3324-3KK60
	63 A	5SV3316-3	–	–
	80 A	5SV3317-3	–	–
300 mA	25 A	5SV3612-3	–	–
	40 A	5SV3614-3	5SV3614-7	–
	63 A	5SV3616-3	–	–
	80 A	5SV3617-3	5SV3617-7	–

Mounting concept



AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

Quick selection guide, page 4/6

Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		**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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new
Adapters for remote control auxiliaries (RCA)		**Article No.**
2 MW		5ST3820-6

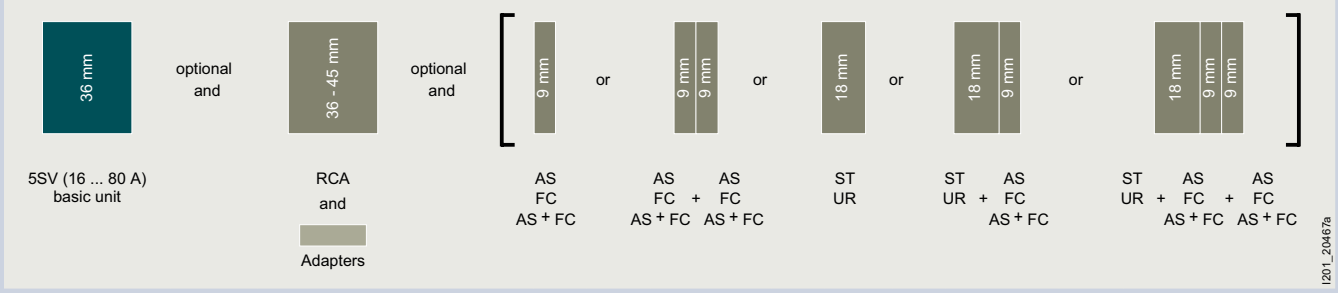
Quick selection guide, page 4/6

5SV RCCBs

Type AC, 1P+N (2 MW)

			Instantaneous		
		Rated voltage U_n	230 V AC		24 ... 125 V AC
		N connection	Right	Left	Right
					
$I_{\Delta n}$	I_n	Bulk packaging (36 units)			
Type AC					
10 mA	16 A	–	5SV4111-0	5SV4111-0KL	–
	25 A	–	5SV4112-0	–	–
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
		■	5SV4314-0GV01	5SV4314-0GV02	–
	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	–

Mounting concept



AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

Quick selection guide, page 4/6

Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		**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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new
Adapters for remote control auxiliaries (RCA)		**Article No.**
2 MW		5ST3820-6

Quick selection guide, page 4/6

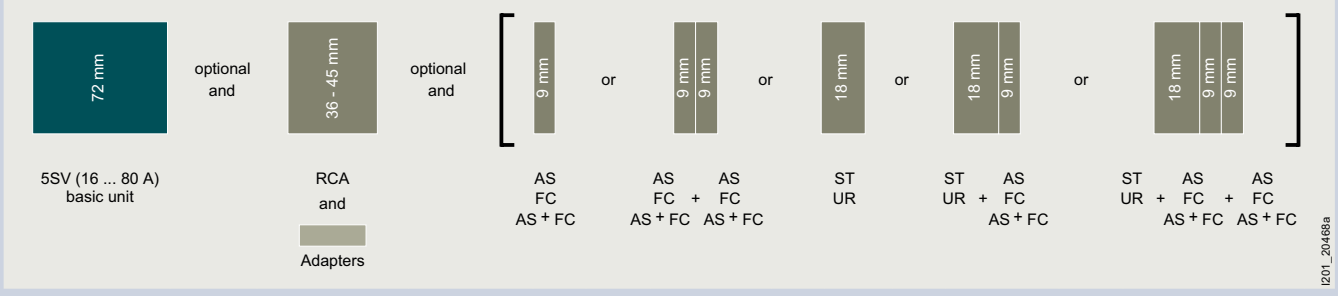
5SV RCCBs

Type A, 3P+N (4 MW)

				Instantaneous			
			Rated voltage U_n	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 OVE E 8101 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 switches	See page 4/62	ST	Shunt trips	See page 4/68
FC	Fault signal contacts	See page 4/64	UR	Undervoltage releases	See page 4/69
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65	RCA	Remote control auxiliaries	See page 4/70

Quick selection guide, page 4/6

Instantaneous (only available in Belgium) [2]	SIGRES, instantaneous	Short-time delayed [G]	Super resistant [K]	Selective [S]		SIGRES, selective [S]	SIGRES, super resistant [K], 6 mA DC
400 V AC	400 V AC	400 V AC	400 V AC	400 V AC		400 V AC	230 V AC
Right	Right	Right	Right	Right	Left	Right	Rechts
							
5SV3342-6BA	5SV3342-6KK12	–	5SV3342-6KK01	–	–	–	5SV3342-6KK60
–	–	–	–	–	–	–	–
5SV3344-6BA	5SV3344-6KK12	5SV3344-6LB01	5SV3344-6KK01	–	–	–	5SV3344-6KK60
–	–	–	–	–	–	–	–
–	–	5SV3344-6LA01	–	–	–	–	–
5SV3346-6BA	5SV3346-6KK12	5SV3346-6LB01	5SV3346-6KK01	–	–	–	5SV3346-6KK60
–	–	–	–	–	–	–	–
–	–	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 + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
4 MW	5ST3820-7

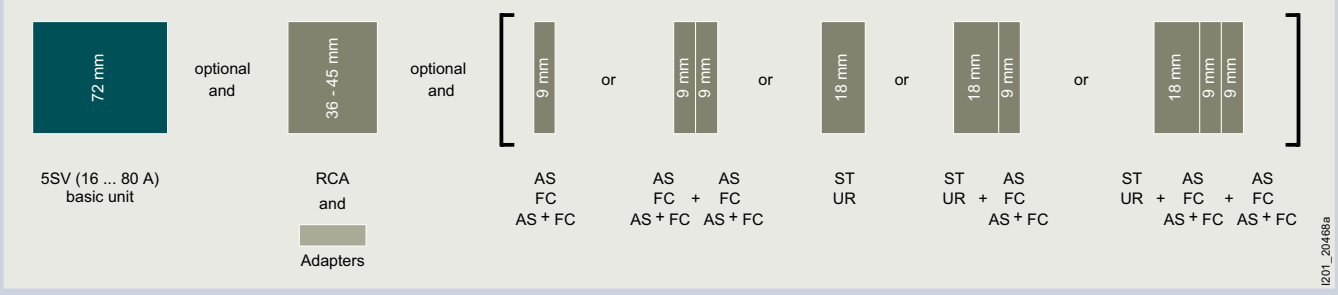
Quick selection guide, page 4/6

5SV RCCBs

Type F, 3P+N (4 MW)

		Super resistant [K]	Selective [S]	SIGRES, super resistant [K], 6 mA DC
	Rated voltage U_n	400 V AC	400 V AC	230 V AC
	N connection	Right	Right	Right
				
$I_{\Delta n}$	I_n			
Type F				
30 mA	25 A	5SV3342-3	–	5SV3342-3KK60
	40 A	5SV3344-3	–	5SV3344-3KK60
	63 A	5SV3346-3	–	5SV3346-3KK60
	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 switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

Quick selection guide, page 4/6

Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		**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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new
Adapters for remote control auxiliaries (RCA)		**Article No.**
4 MW		5ST3820-7

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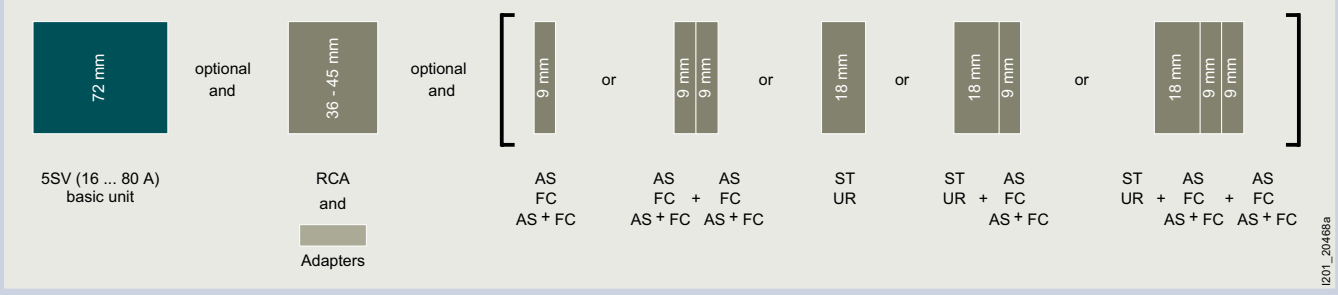
5SV RCCBs

Type AC, 3P+N (4 MW)

			Instantaneous	
		Rated voltage U_n	400 V AC	
		N connection	Right	Left
				
$I_{\Delta n}$	I_n	Bulk packaging (18 units)		
Type AC				
30 mA	25 A	–	5SV4342-0	5SV4342-0KL
		■	5SV4342-0GV01	–
	40 A	–	5SV4344-0	5SV4344-0KL
		■	5SV4344-0GV01	–
	63 A	–	5SV4346-0	5SV4346-0KL
	80 A	–	5SV4347-0	5SV4347-0KL
100 mA	25 A	–	5SV4442-0	–
	40 A	–	5SV4444-0	–
	63 A	–	5SV4446-0	–
	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	–

Mounting concept



AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

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Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		**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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new
Adapters for remote control auxiliaries (RCA)		**Article No.**
4 MW		5ST3820-7

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5SV RCCBs

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

		Instantaneous	Short-time delayed [G], [K]	Selective [S]
	Rated voltage U_n	400 V AC	400 V AC	400 V AC
	N connection	Right	Right	Right
				
$I_{\Delta n}$	I_n			
Type A				
30 mA	100 A	5SV3348-6	–	–
	125 A	5SV3345-6	5SV3345-6KK01	–
100 mA	100 A	5SV3448-6	–	–
	125 A	5SV3445-6	5SV3445-6KK01	–
300 mA	100 A	5SV3648-6	–	–
	125 A	5SV3645-6	5SV3645-6KK01	5SV3645-8
500 mA	100 A	5SV3748-6	–	–
	125 A	5SV3745-6	5SV3745-6KK01	5SV3745-8
Type AC				
30 mA	100 A	5SV4348-0	–	–
	125 A	5SV4345-0	–	–
100 mA	100 A	5SV4448-0	–	–
	125 A	5SV4445-0	–	–
300 mA	100 A	5SV4648-0	–	–
	125 A	5SV4645-0	–	–
500 mA	100 A	5SV4748-0	–	–
	125 A	5SV4745-0	–	–

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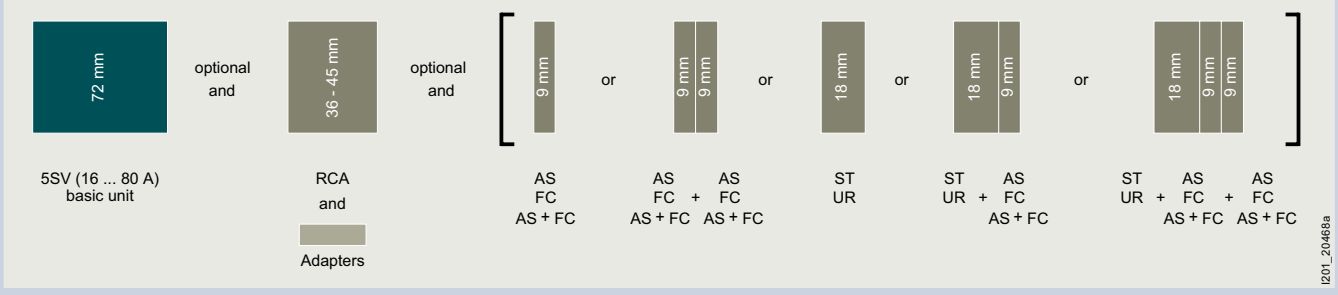
5SV3 RCCBs (SIQUENCE)

Type B, 1P+N (4 MW)

	SIGRES, super resistant [K]	SIGRES, super resistant [K], 6 mA DC
Rated voltage U_n	230 V AC	230 V AC
N connection	Right	Right
		

$I_{\Delta n}$	I_n	Bulk packaging (18 units)		
Type B				
30 mA	16 A	–	5SV3321-4	–
	25 A	–	5SV3322-4	5SV3322-4KK60
	40 A	–	5SV3324-4	5SV3324-4KK60
		■	5SV3324-4GV01	–
	63 A	–	5SV3326-4	5SV3326-4KK60
	80 A	–	–	5SV3327-4KK60
300 mA	16 A	–	5SV3621-4	–
	25 A	–	5SV3622-4	–
	40 A	–	5SV3624-4	–
	63 A	–	5SV3626-4	–

Mounting concept



AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

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Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		**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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new
Adapters for remote control auxiliaries (RCA)		**Article No.**
4 MW		5ST3820-7

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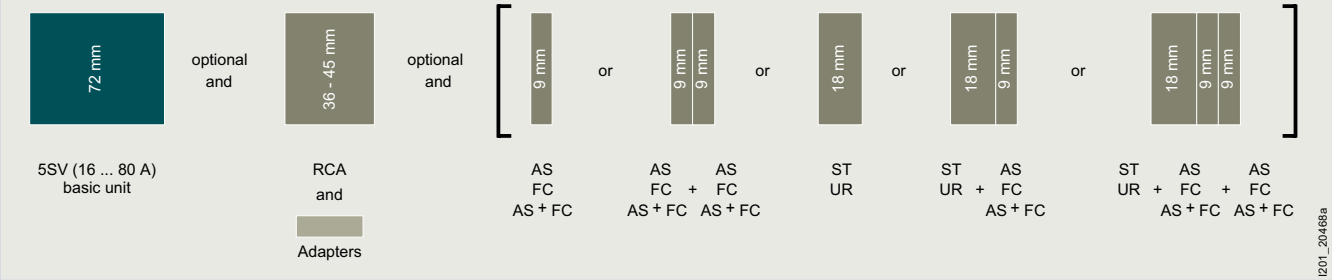
5SV3 RCCBs (SIQUENCE)

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

			SIGRES, super resistant [K]	SIGRES, super resistant [K], 6 mA DC	SIGRES, selective [S]
		Rated voltage U_n	230 ... 400 V AC	230 ... 400 V AC	230 ... 400 V AC
		N connection	Right	Right	Right
					
$I_{\Delta n}$	I_n	Bulk packaging (18 units)			
Type B					
30 mA	25 A	–	5SV3342-4	5SV3342-4KK60	–
		■	5SV3342-4GV01	–	–
	40 A	–	5SV3344-4	5SV3344-4KK60	–
		■	5SV3344-4GV01	–	–
	63 A	–	5SV3346-4	5SV3346-4KK60	–
		■	5SV3346-4GV01	–	–
	80 A	–	5SV3347-4	5SV3347-4KK60	–
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 switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

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Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		**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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new
Adapters for remote control auxiliaries (RCA)		**Article No.**
4 MW		5ST3820-7

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5SM3 RCCBs

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

	Instantaneous
Rated voltage U_n	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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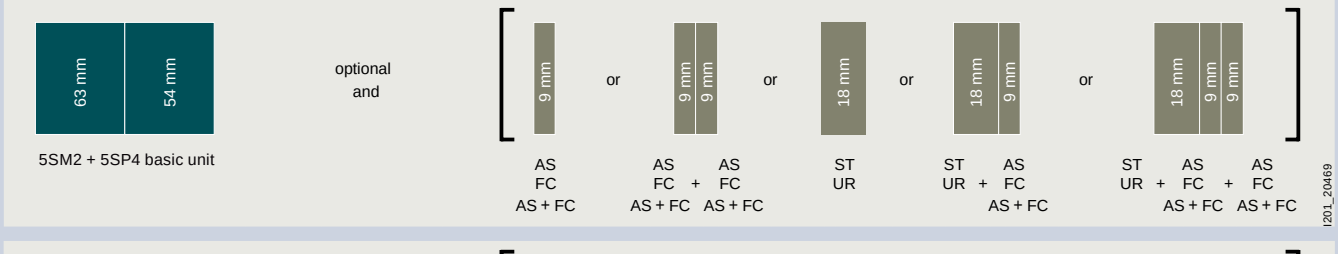
5SM2 RC units

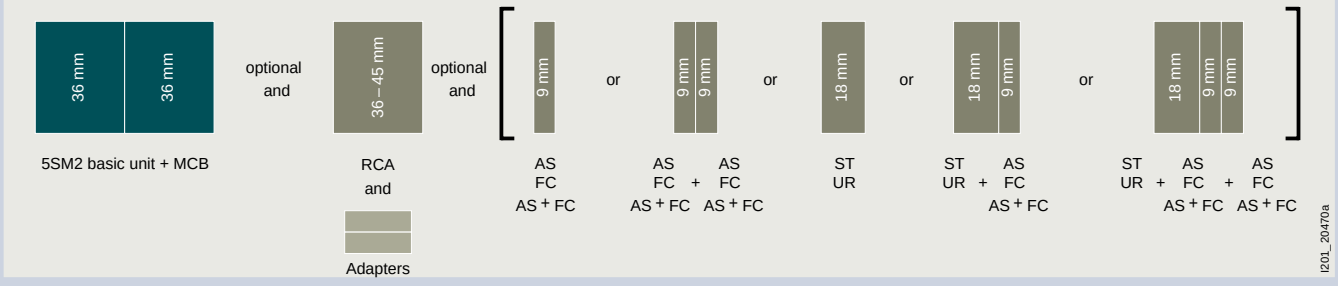
Type A, F and AC, 2-pole

	For 5SY miniature circuit breakers [1]		
Rated voltage U_n	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] Not suitable for use with 5SY5 and type A + type F not suitable for use with 5SY8

Mounting concept





MCB Miniature circuit breakers See page 3/1
AS Auxiliary switches See page 4/62
FC Fault signal contacts See page 4/64
AS+FC Auxiliary switches and fault signal contacts See page 4/65
ST Shunt trips See page 4/68
UR Undervoltage releases See page 4/69
RCA Remote control auxiliaries See page 4/70

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

Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		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
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
5SM2 with 5SY (2P)	5ST3820-3 + 5ST3820-1
5SM2 with 5SL (2P)	5ST3820-3 + 5ST3820-6

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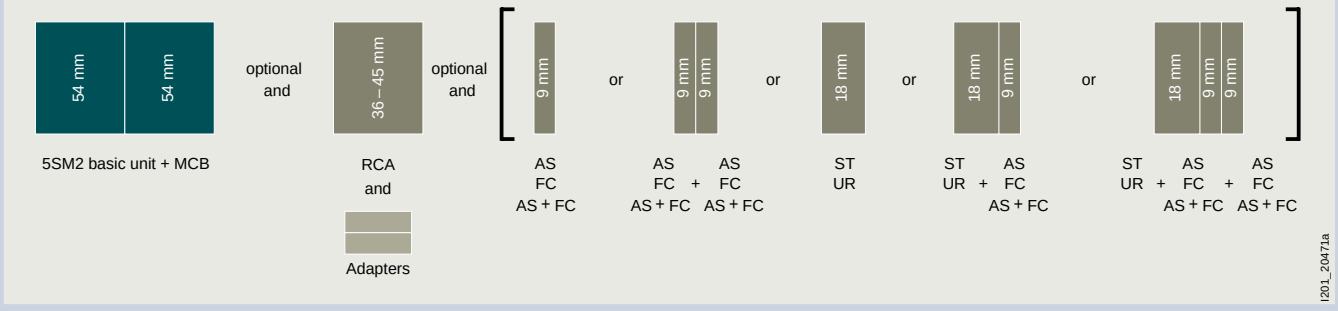
5SM2 RC units

Type A and AC, 3-pole

		For 5SY miniature circuit breakers [1]			For 5SL4 miniature circuit breakers	
Rated voltage U_n		400 V AC			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] Not suitable for use with 5SY5 and type A not suitable for use with 5SY8

Mounting concept



MCB	Miniature circuit breakers	See page 3/1
AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65
ST	Shunt trips	See page 4/68
UR	Undervoltage releases	See page 4/69
RCA	Remote control auxiliaries	See page 4/70

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Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliariess (RCA)		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
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliariess (RCA)	Article No.
5SM2 with 5SY (2P)	5ST3820-3 + 5ST3820-1
5SM2 with 5SL (2P)	5ST3820-3 + 5ST3820-6

Quick selection guide, page 4/8

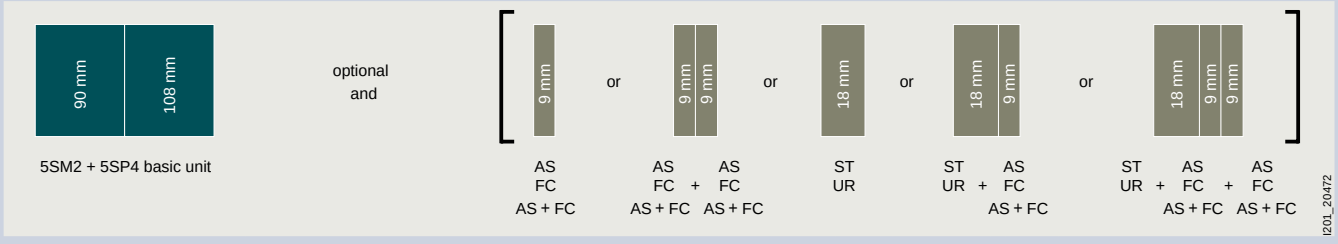
5SM2 RC units

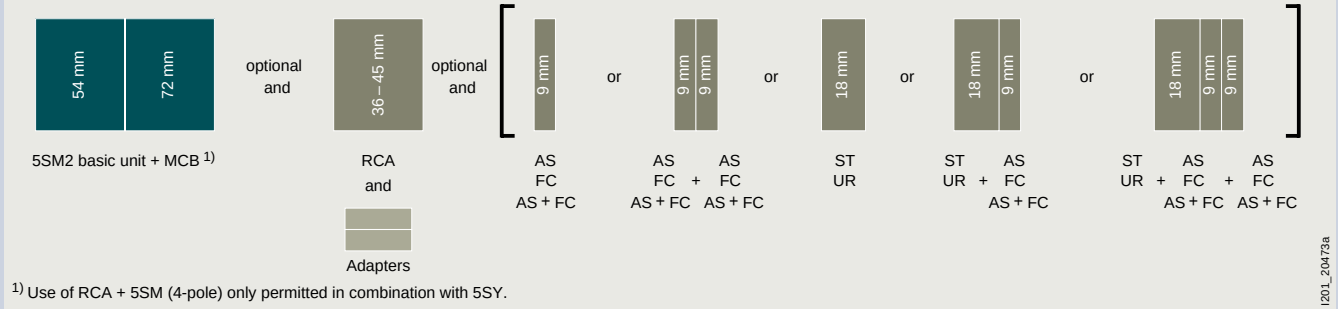
Type A and AC, 4-pole

	For 5SY miniature circuit breakers [1]			
Rated voltage U_n	400 V AC			
Version	Instantaneous	Super resistant [K]	Selective [S]	SIGRES, instantaneous
Mounting width	3 MW	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	–	5SM2345-6KK12
	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	5SM2645-6KK12
	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] Not suitable for use with 5SY5 and type A not suitable for use with 5SY8

Mounting concept





[1] Use of RCA + 5SM (4-pole) only permitted in combination with 5SY.

MCB Miniature circuit breakers See page 3/1
AS Auxiliary switches Fault signal contacts FC See page 4/62 See page 4/64
AS+FC Auxiliary switches and fault signal contacts See page 4/65
ST Shunt trips See page 4/68
UR Undervoltage releases See page 4/69
RCA Remote control auxiliaries See page 4/70

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For 5SL4 miniature circuit breakers		For 5SP4 miniature circuit breakers (B and C characteristics)	
400 V AC		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	–
–	–	–	–
–	–	–	–

4

Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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 control auxiliaries (RCA)		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
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
5SM2 with 5SY (2P)	5ST3820-3 + 5ST3820-1
5SM2 with 5SL (2P)	5ST3820-3 + 5ST3820-6

Quick selection guide, page 4/8

5SU1 RCBOs

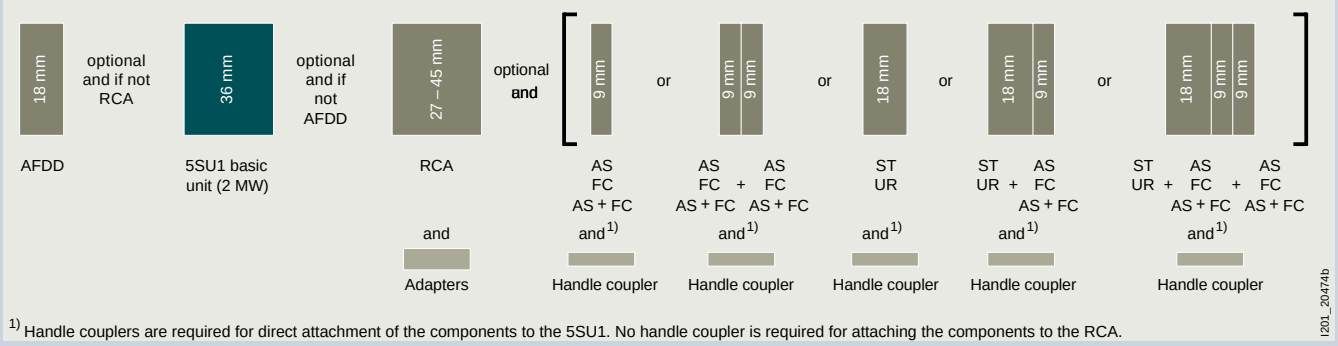
Type A, 1P+N

	Instantaneous		
Rated voltage U_n	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
			

4

$I_{\Delta n}$	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 RCA.

AFDD	Arc fault detection units	See page 4/56	ST	Shunt trips	See page 4/68
AS	Auxiliary switches	See page 4/62	UR	Undervoltage releases	See page 4/69
FC	Fault signal contacts	See page 4/64	RCA	Remote control auxiliaries	See page 4/70
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65			

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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

Arc fault detection units (AFDD)		Article No.
For 5SU1 basic units	I_n up to 16 A	5SM6021-2
	I_n up to 40 A	5SM6024-2

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 control auxiliaries (RCA)		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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
2 MW	5ST3820-5

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5SU1 RCBOs

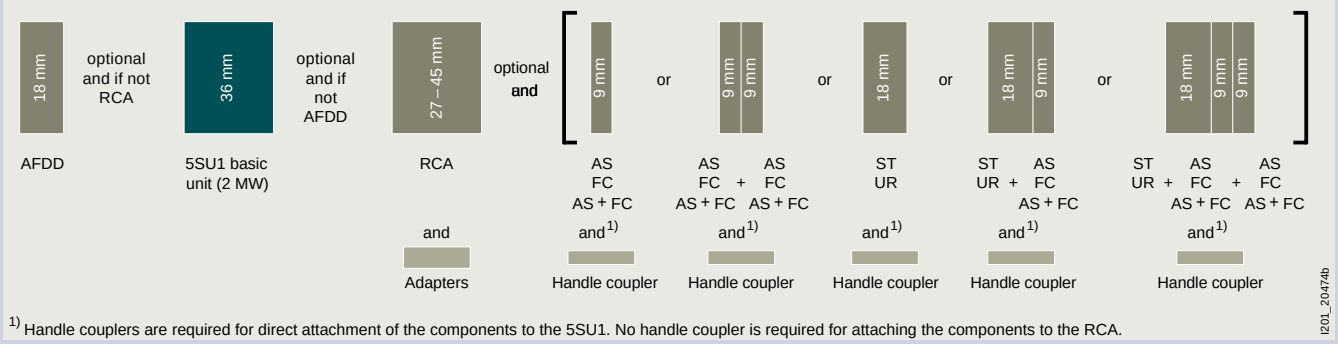
Type F, 1P+N

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

4

$I_{\Delta n}$	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 RCA.

AFDD	Arc fault detection units	See page 4/56	ST	Shunt trips	See page 4/68
AS	Auxiliary switches	See page 4/62	UR	Undervoltage releases	See page 4/69
FC	Fault signal contacts	See page 4/64	RCA	Remote control auxiliaries	See page 4/70
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65			

Quick selection guide, page 4/10

Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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

Arc fault detection units (AFDD)		Article No.
For 5SU1 basic units	I_n up to 16 A	5SM6021-2
	I_n up to 40 A	5SM6024-2

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 control auxiliaries (RCA)		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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
2 MW	5ST3820-5

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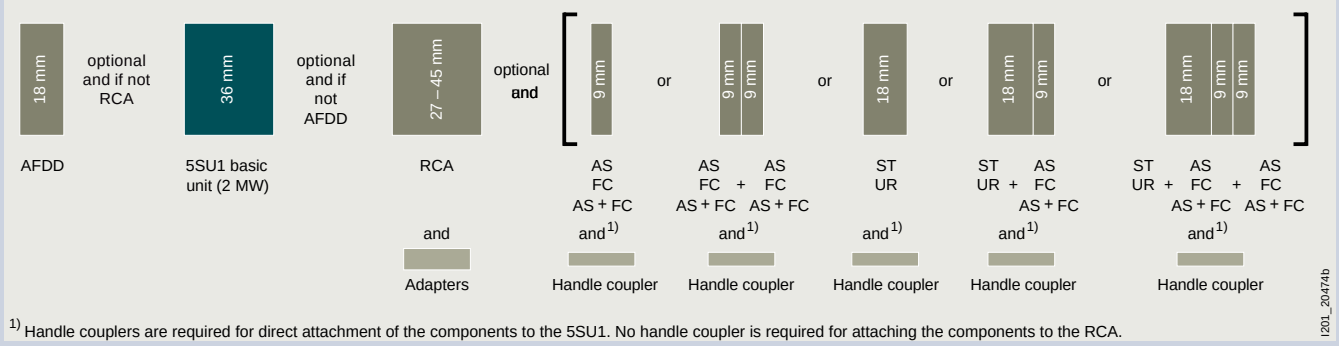
5SU1 RCBOs

Type AC, 1P+N

	Instantaneous		
Rated voltage U_n	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



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AFDD	Arc fault detection units	See page 4/56	ST	Shunt trips	See page 4/68
AS	Auxiliary switches	See page 4/62	UR	Undervoltage releases	See page 4/69
FC	Fault signal contacts	See page 4/64	RCA	Remote control auxiliaries	See page 4/70
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65			

Quick selection guide, page 4/10

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**
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 + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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

Arc fault detection units (AFDD)		Article No.
For 5SU1 basic units	I_n up to 16 A	5SM6021-2
	I_n up to 40 A	5SM6024-2

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 control auxiliaries (RCA)		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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
2 MW	5ST3820-5

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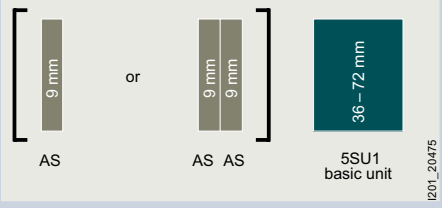
5SU1 RCBOs

Type A, 2/3/4-pole with residual current tripped indication

		2-pole Instantaneous			
Rated voltage U_n		230 V AC			
Short-circuit breaking capacity		6 kA		10 kA	
					
$I_{\Delta n}$	I_n	Characteristic B	C	Characteristic B	C
30 mA	6 A	5SU1326-6FP06	5SU1326-7FP06	5SU1324-6FP06	5SU1324-7FP06
	10 A	5SU1326-6FP10	5SU1326-7FP10	5SU1324-6FP10	5SU1324-7FP10
	13 A	5SU1326-6FP13	5SU1326-7FP13	5SU1324-6FP13	5SU1324-7FP13
	16 A	5SU1326-6FP16	5SU1326-7FP16	5SU1324-6FP16	5SU1324-7FP16
	20 A	5SU1326-6FP20	5SU1326-7FP20	5SU1324-6FP20	5SU1324-7FP20
	25 A	5SU1326-6FP25	5SU1326-7FP25	5SU1324-6FP25	5SU1324-7FP25
	32 A	5SU1326-6FP32	5SU1326-7FP32	5SU1324-6FP32	5SU1324-7FP32
300 mA	6 A	–	–	–	–
	10 A	–	–	–	–
	16 A	–	–	–	–
	20 A	–	–	–	–
	25 A	–	–	–	–
	32 A	–	–	–	–

Mounting concept



AS Auxiliary switches See page 4/62

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2-pole Short-time delayed, super resistant [K]		3-pole Instantaneous		4-pole Instantaneous	
230 V AC		400 V AC		400 V AC	
10 kA		6 kA		6 kA	
					
Characteristic		Characteristic		Characteristic	
B	C	B	C	B	C
–	5SU1324-7FR06	5SU1336-6FP06	5SU1336-7FP06	5SU1346-6FP06	5SU1346-7FP06
–	5SU1324-7FR10	5SU1336-6FP10	5SU1336-7FP10	5SU1346-6FP10	5SU1346-7FP10
–	–	5SU1336-6FP13	5SU1336-7FP13	5SU1346-6FP13	5SU1346-7FP13
5SU1324-6FR16	5SU1324-7FR16	5SU1336-6FP16	5SU1336-7FP16	5SU1346-6FP16	5SU1346-7FP16
5SU1324-6FR20	5SU1324-7FR20	5SU1336-6FP20	5SU1336-7FP20	5SU1346-6FP20	5SU1346-7FP20
5SU1324-6FR25	5SU1324-7FR25	5SU1336-6FP25	5SU1336-7FP25	5SU1346-6FP25	5SU1346-7FP25
–	5SU1324-7FR32	5SU1336-6FP32	5SU1336-7FP32	5SU1346-6FP32	5SU1346-7FP32
–	–	5SU1636-6FP06	5SU1636-7FP06	5SU1646-6FP06	5SU1646-7FP06
–	–	5SU1636-6FP10	5SU1636-7FP10	5SU1646-6FP10	5SU1646-7FP10
–	–	5SU1636-6FP16	5SU1636-7FP16	5SU1646-6FP16	5SU1646-7FP16
–	–	5SU1636-6FP20	5SU1636-7FP20	5SU1646-6FP20	5SU1646-7FP20
–	–	5SU1636-6FP25	5SU1636-7FP25	5SU1646-6FP25	5SU1646-7FP25
–	–	5SU1636-6FP32	5SU1636-7FP32	5SU1646-6FP32	5SU1646-7FP32

Accessories

Auxiliary switches (AS)		Article No.
1 CO	Standard	5ST1010-0FP

Quick selection guide, page 4/10

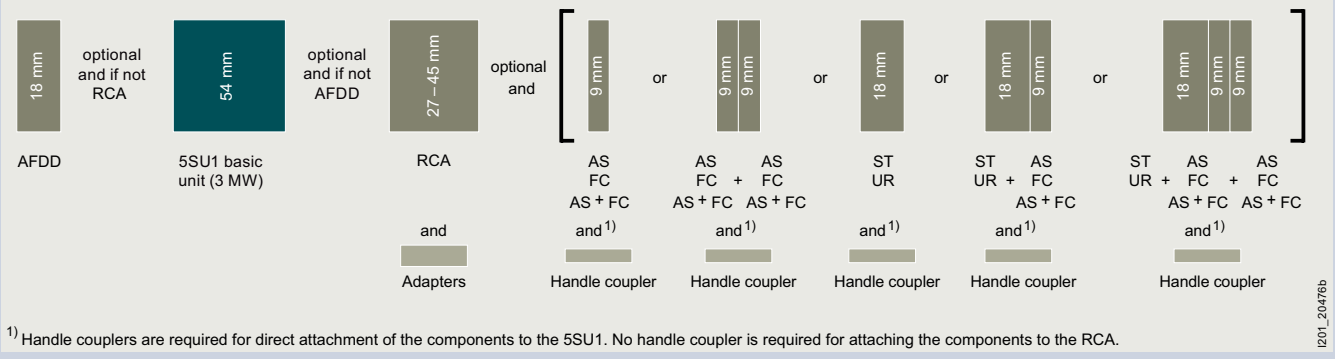
5SU1 RCBOs

Type A and AC, 2-pole

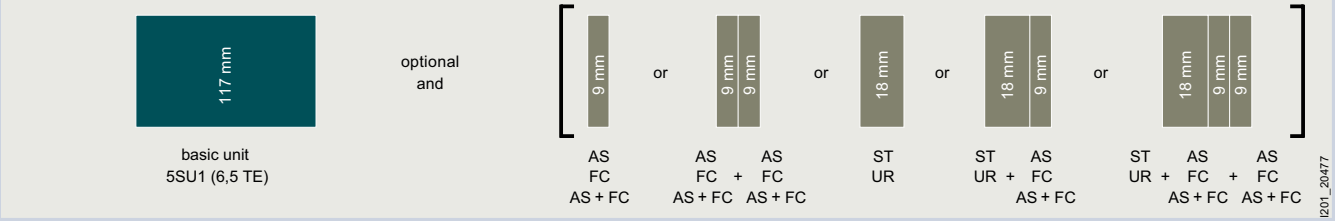
	Instantaneous	
Rated voltage U_n	110 V AC	230 V AC
Mounting width	3 MW	3 MW
Short-circuit breaking capacity	10 kA	10 kA
		

$I_{\Delta n}$	I_n	Characteristic B	C	Characteristic 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 RCA.



AFDD Arc fault detection unit See page 4/56
AS Auxiliary switches See page 4/62
FC Fault signal contacts See page 4/64
AS+FC Auxiliary switches and fault signal contacts See page 4/65
ST Shunt trips See page 4/68
UR Undervoltage releases See page 4/69
RCA Remote control auxiliaries See page 4/70

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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	–	–

Accessories

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

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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

Arc fault detection units (AFDD)		Article No.
For 5SU1 basic units	I_n up to 16 A	5SM6021-2
	I_n up to 40 A	5SM6024-2

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 control auxiliaries (RCA)		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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
2 MW	5ST3820-5

Quick selection guide, page 4/10

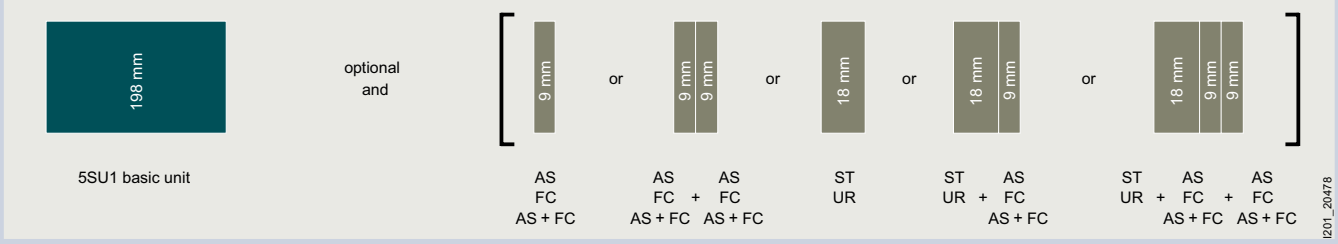
5SU1 RCBOs

Type A and AC, 4-pole

	Instantaneous	Selective [S]
Rated voltage U_n	400 V AC	400 V AC
Mounting width	11 MW	11 MW
Short-circuit breaking capacity	10 kA	10 kA
		

$I_{\Delta n}$	I_n	Characteristic		Characteristic	
		B	C	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	–	–

Mounting concept



AS Auxiliary switches See page 4/62
FC Fault signal contacts See page 4/64
AS+FC Auxiliary switches and fault signal contacts See page 4/65
ST Shunt trips See page 4/68
UR Undervoltage releases See page 4/69

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Type B and B+, 4-pole

		Super resistant [K]			Selective [S]	
Rated voltage U_n		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 + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

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

Quick selection guide, page 4/10

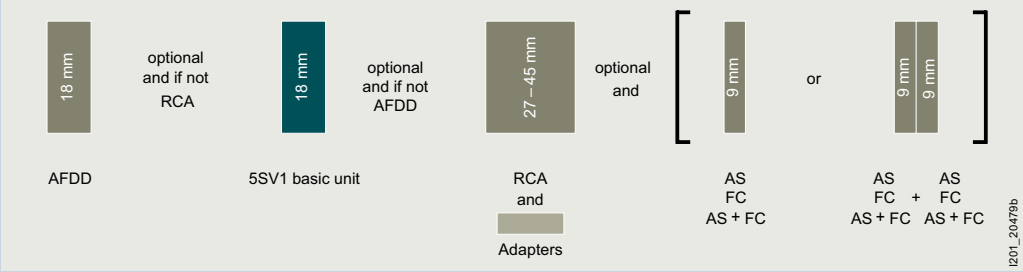
5SV1 RCBOs

Type A, 1P+N

	Instantaneous		Short-time delayed [G], Super resistant [K]
Rated voltage U_n	230 V AC		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	Characteristic C	Characteristic B	Characteristic C	Characteristic B	Characteristic C
Typ 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	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 units See page 4/56
AS Auxiliary switches See page 4/62
FC Fault signal contacts See page 4/64
AS+FC Auxiliary switches and fault signal contacts See page 4/65
RCA Remote control auxiliaries See page 4/70

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Type F and AC, 1P+N

			Instantaneous			Super resistant [K]	
		Rated voltage U_n	230 V AC			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	Characteristic C	Characteristic B	Characteristic 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	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 + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016

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

Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC)	5ST3062-0MC

Remote control auxiliaries (RCA)		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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC new
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC new

Adapters for remote control auxiliaries (RCA)	Article No.
1 MW	5ST3820-6

Arc fault detection units (AFDD)		Article No.
For 5SV1 basic units	I_n up to 16 A	5SM6011-2

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5TY1 COM electronic circuit protection devices (ECPD) with measuring and communication function

Siemens EcoTech

new

Type F [1)]

	Instantaneous
Rated voltage U_n	230 V AC
Mounting width	2 MW
Short-circuit breaking capacity	75 kA
Magnetic tripping operation (instantaneous tripping)	3 ... 3.6 × I_n
Thermal tripping (delayed tripping)	1.05 ... 1.13 × I_n
N connection	Right

$I_{\Delta n}$	I_n	
Type F		
30 mA	6 A	5TY1350-3MF06
	10 A	5TY1350-3MF10
	16 A	5TY1350-3MF16

[1)] RCBO function conforming to IEC/EN 61009-1 (IEC/EN 62423)

Monitoring functions with limit monitoring

- Switching state with trip monitoring: short-circuit, overload, arc fault, residual current, undervoltage, overvoltage
- Counters incl. limit monitoring for:
  - Operating hours
  - Operating hours with load current
  - Operating cycles electrical/mechanical
  - Tripping operations
  - Short circuits
- Limit values for:
  - Overcurrent alarm 1 and alarm 2
  - Undercurrent alarm 1 and alarm 2
  - Overvoltage alarm 1 and alarm 2
  - Undervoltage alarm 1 and alarm 2
  - Temperature

Measured values	Unit	Memory
Temperature	°C	1 hour in 1-minute intervals; 7 days in 15-minute intervals
Average temperature	°C	–
Current	A	Min. and max. values over 10 days; 1 hour in 10-second intervals; 7 days in 15-minute intervals
Average current	A	–
Maximum current	A	–
Voltage	V	Min. and max. values over 10 days
Line frequency	Hz	Min. and max. values over 10 days
Active power	W	Min. and max. values over 10 days
Apparent power	VA	Min. and max. values over 10 days
Reactive power	Var	–
Power factor		–
Active energy imported	Wh	–
Active energy exported	Wh	–
Reactive energy imported	Varh	–
Reactive energy exported	Varh	–

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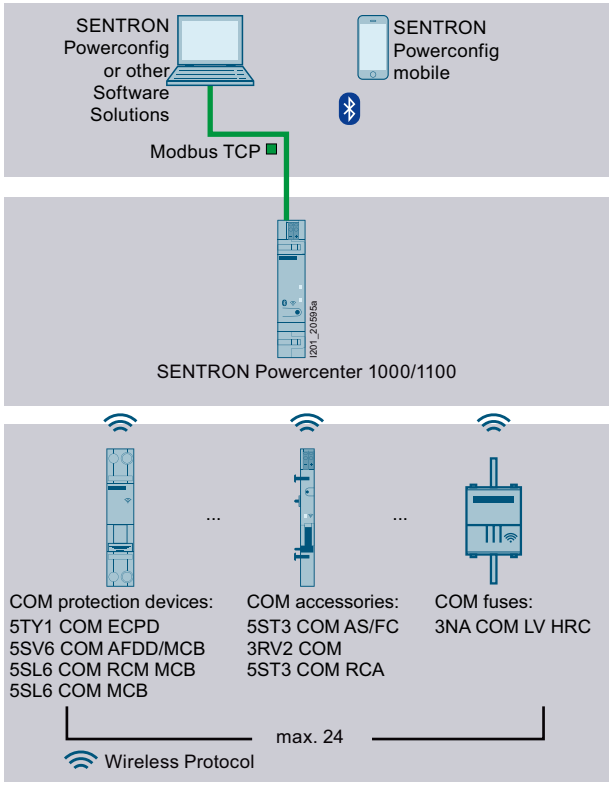
SENTRON Powercenter 1000/1100 data transceiver



- Wireless radio transmission of measured values and data to the SENTRON Powercenter 1000/1100 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100 data transceiver

SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
SENTRON Powercenter 1100	7KN1111-0MC00

See page 10/26

You will find further information at **www.siemens.com/lowvoltage/manuals**

Installation Manual – Circuit protection devices with communication and measuring function **(109791805)**

System Manual – Circuit protection devices with communication and measuring function **(109791806)**

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5SM6 arc fault detection units

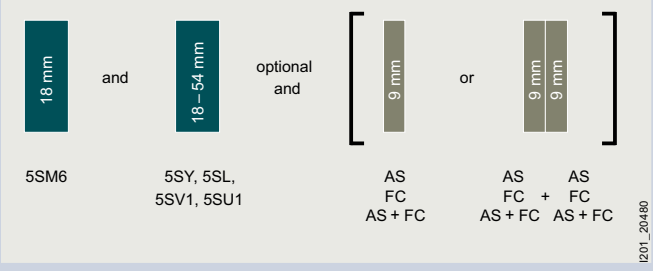
For combination with an MCB or RCBO

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, not compact)	5SU1 (2 MW, 3 MW)	Up to 16 A	5SM6021-2
			Up to 40 A	5SM6024-2

[1] Not suitable for use with 5SY5 or 5SY8

4

Mounting concept



AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65

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

Accessories

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO (AS) + 1 CO (FC)		5ST3062
5ST3 COM (AS+FC)		5ST3062-0MC

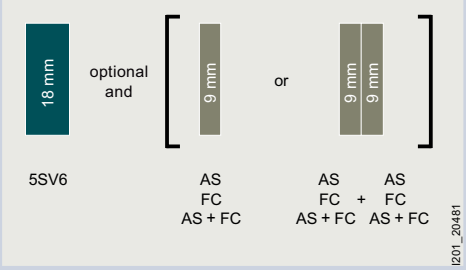
See suitable busbars, from page 4/76 onwards
See suitable terminals and end caps, from page 4/80 onwards

Quick selection guide, page 4/12

5SV6 AFDD/MCB

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

Mounting concept



AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65

Accessories

Auxiliary switches (AS)		**Article No.**
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO (AS) + 1 CO (FC)		5ST3062
5ST3 COM (AS+FC)		5ST3062-0MC

See suitable busbars, from page 4/76 onwards
See suitable terminals and end caps, from page 4/80 onwards

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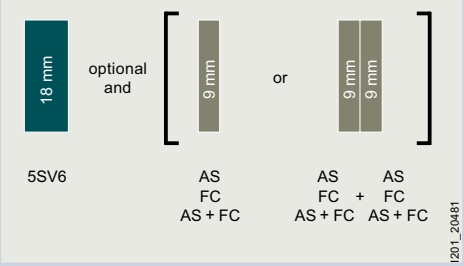
5SV6 COM AFDD/MCB with measuring and communication function

Mounting width	1 MW

Rated current I_n	Characteristic B	Characteristic C
6 A	5SV6016-6MC06	5SV6016-7MC06
10 A	5SV6016-6MC10	5SV6016-7MC10
13 A	5SV6016-6MC13	5SV6016-7MC13
16 A	5SV6016-6MC16	5SV6016-7MC16
20 A	5SV6016-6MC20	5SV6016-7MC20
25 A	5SV6016-6MC25	5SV6016-7MC25
32 A	5SV6016-6MC32	5SV6016-7MC32

Note:
Please note the country-specific radio licenses of the products at
www.siemens.com/lowvoltage/certificates (109801197)

Mounting concept



AS	Auxiliary switches	See page 4/62
FC	Fault signal contacts	See page 4/64
AS+FC	Auxiliary switches and fault signal contacts	See page 4/65

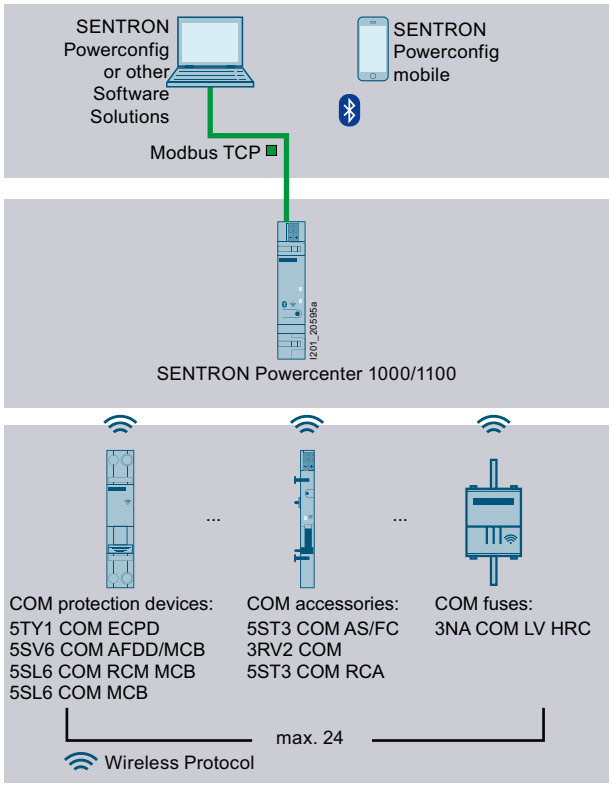
Accessories

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		**Article No.**
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		**Article No.**
1 CO (AS) + 1 CO (FC)		5ST3062
5ST3 COM (AS+FC)		5ST3062-0MC
Data transceiver (essential accessory)		**Article No.**
SENTRON Powercenter 1000		7KN1110-0MC00

See suitable busbars, from page 4/76 onwards
See suitable terminals and end caps, from page 4/80 onwards

Quick selection guide, page 4/12

SENTRON Powercenter 1000/1100 data transceiver



- Wireless radio transmission of measured values and data to the SENTRON Powercenter 1000/1100 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100 data transceiver

SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
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See page 10/26

You will find further information at **www.siemens.com/lowvoltage/manuals**

Installation Manual – Circuit protection devices with communication and measuring function **(109791805)**

System Manual – Circuit protection devices with communication and measuring function **(109791806)**

Monitoring functions with limit monitoring

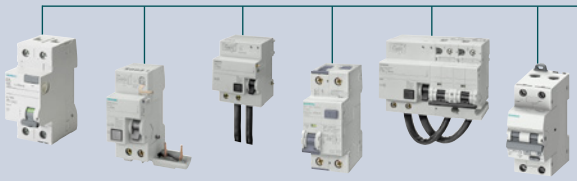
- Switching state with trip monitoring: short-circuit, overload, arc fault
- Counters incl. limit monitoring for:
  - Operating hours
  - Operating hours with load current
  - Operating cycles (ON/OFF)
  - Tripping operations
  - Short circuits
- Limit values for:
  - Overcurrent alarm 1 and alarm 2
  - Undercurrent alarm 1 and alarm 2
  - Overvoltage alarm 1 and alarm 2
  - Undervoltage alarm 1 and alarm 2
  - Lower voltage threshold for AFDD tripping
  - Temperature

Measured values	Unit	Memory
Temperature	°C	1 hour in 1-minute intervals; 7 days in 15-minute intervals
Average temperature	°C	–
Current	A	Min. and max. values over 10 days; 1 hour in 10-second intervals; 7 days in 15-minute intervals
Average current	A	–
Maximum current	A	–
Voltage	V	Min. and max. values over 10 days
Line frequency	Hz	Min. and max. values over 10 days
Active power	W	Min. and max. values over 10 days
Apparent power	VA	Min. and max. values over 10 days
Reactive power	Var	–
Power factor		–
Active energy imported	Wh	7 days in 15-minute intervals; 30 days in 1-day intervals
Active energy exported	Wh	–
Reactive energy imported	Varh	–
Reactive energy exported	Varh	–

Quick selection guide, page 4/12

Overview of the modular system

Residual current protective devices



				5SV (16 ... 80 A)	5SM2 + MCB	5SM2 + 5SP4	5SU1	5SU1 (125 A)	5SU1... FP/FR
5SM6 arc fault detection units			**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 + 1 NC	Standard	5ST3010	■	■	■	■	■	–
		For low power	5ST3013	■	■	■	■	■	–
		For low power (with diode)	5ST3013-0XX01	■	■	■	■	■	–
	2 NO	Standard	5ST3011	■	■	■	■	■	–
		For low power	5ST3014	■	■	■	■	■	–
	2 NC	Standard	5ST3012	■	■	■	■	■	–
		For low power	5ST3015	■	■	■	■	■	–
	1 CO	Standard	5ST3016	■	■	■	■	■	–
			5ST1010-0FP	–	–	–	–	–	■
Fault signal contacts (FC)			**Article No.**						
	1 NO + 1 NC		5ST3020	■	■	■	■	■	–
	2 NO		5ST3021	■	■	■	■	■	–
	2 NC		5ST3022	■	■	■	■	■	–
Auxiliary switches and fault signal contacts (AS+FC)			**Article No.**						
	1 CO (AS) + 1 CO (FC)	Standard	5ST3062	■	■	■	■	■	–
	5ST3 COM (AS+FC)	With measuring and communication function	5ST3062-0MC	■	■	■	■	■	–
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 control auxiliaries (RCA)			**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	■	■	–	■	–	–
		170 ... 277 V AC, 77 ... 286 V DC	5ST3071	■	–	–	■	–	–
	Communication-capable new	100 ... 240 V AC	5ST3072-0MC	■	■	–	■	–	–
	Communication-capable with RCD/IR test new	100 ... 240 V AC	5ST3073-0MC	■	■	–	■	–	–
Standard busbars			**Article No.**						
	Cannot be cut		5ST36..	■	■	■	■	■	■
	Can be cut		5ST37..	■	■	■	■	■	■
Compact busbars			**Article No.**						
	Cannot be cut		5ST36..	■	–	–	–	–	–
	Can be cut		5ST37..	■	–	–	–	–	–

From page 4/14

■ Suitable for all versions □ Suitable for some versions

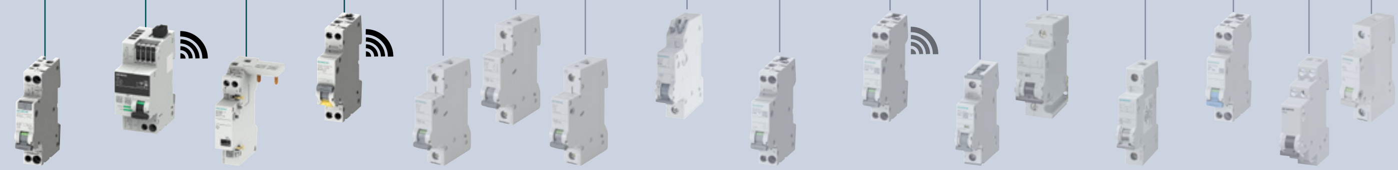
System overview, page 4/4

Arc fault detection devices

Miniature circuit breakers

Circuit breakers for equipment

Switching devices



5SV1	5TY1 COM	5SM6	5SV6/ 5SV6 COM	5SL3	5SL6	5SL4	5SJ6...-.KS	5SL30	5SL60/ 5SL6 COM	5SY	5SP4/ 5SP5	5SJ4..HG..	5SY17	5TE8	5TL
–	–	–	–	–	–	□	–	–	–	□	–	–	–	–	–
■	–	–	–	–	–	–	–	–	□	–	–	–	–	–	–
–	–	–	–	–	–	□	–	–	–	□	–	–	–	–	–
■	–	–	–	–	–	–	–	–	□	–	–	–	–	–	–
■	–	□	■	■	■	■	–	■	■	■	■	...-0HG	■	■	■
■	–	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	–	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	–	□	■	■	■	■	–	■	■	■	■	...-0HG	■	■	■
■	–	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	–	□	■	■	■	■	–	■	■	■	■	...-0HG	■	■	■
■	–	□	■	■	■	■	–	■	■	■	■	–	■	■	■
■	–	□	■	■	■	■	–	■	■	■	■	–	■	■	■
–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
■	–	□	■	■	■	■	–	■	■	■	■	...-0HG	■	–	–
■	–	□	■	■	■	■	–	■	■	■	■	...-0HG	■	–	–
■	–	□	■	■	■	■	–	■	■	■	■	...-0HG	■	–	–
■	–	□	■	■	■	■	–	■	■	■	■	–	■	–	–
■	–	□	■	■	■	■	–	■	■	■	■	–	■	–	–
–	–	□	–	–	–	■	–	–	–	■	■	...-0HG	–	–	–
–	–	□	–	–	–	■	–	–	–	■	■	...-0HG	–	–	–
–	–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
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–	–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
–	–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
–	–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
–	–	□	–	–	–	■	–	–	–	■	■	–	–	–	–
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■	■	□	■	■	■	■	■	■	■	■	■	■	■	□	■
■	■	□	■	■	■	■	■	■	■	■	■	■	■	□	■
■	■	■	■	□	□	□	–	■	■	–	–	–	■	–	–
■	■	■	■	□	□	□	–	■	■	–	–	–	–	–	–
From page 4/14		From page 4/56		From page 3/12									From page 3/46	From page 5/6	

System overview, page 4/4

Electrical accessories

Auxiliary switches (AS)

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

For combining with basic units						Contacts	Version	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Circuit breakers for equipment	RCCBs	RCBOs	Arc fault detection devices	ON/OFF switches				
Auxiliary switches (AS)									
–	–	5SM3 (3P+N, 100/125 A)	–	–	–	1 NO + 1 NC	Standard	0.5 MW	5SW3330
5SL, 5SY, 5SP4, 5SP5	5SY17	5SV (16 ... 80 A)	5SU1 [1], 5SV1	5SV6	5TL1, 5TE8	1 NO + 1 NC	Standard	0.5 MW	5ST3010
							For low power	0.5 MW	5ST3013
							For low power (with diode)	0.5 MW	5ST3013-0XX01
						2 NO	Standard	0.5 MW	5ST3011
							For low power	0.5 MW	5ST3014
						2 NC	Standard	0.5 MW	5ST3012
							For low power	0.5 MW	5ST3015
						1 CO	Standard	0.5 MW	5ST3016
–	–	–	5SU1... FP/FR	–	–	1 CO	Standard	0.5 MW	5ST1010-0FP
Auxiliary switches (AS) with TEST button									
5SL, 5SY, 5SP4, 5SP5	5SY17	5SV (16 ... 80 A)	5SU1 [1], 5SV1	5SV6	5TL1, 5TE8	1 NO + 1 NC	Standard	0.5 MW	5ST3010-2
							For low power	0.5 MW	5ST3013-2
						2 NO	Standard	0.5 MW	5ST3011-2
							For low power	0.5 MW	5ST3014-2
						2 NC	Standard	0.5 MW	5ST3012-2
							For low power	0.5 MW	5ST3015-2

[1] 5ST3805-1 handle coupler required

Quick selection guide, page 4/51

Further technical specifications

		5ST3010, 5ST3011, 5ST3012, 5ST3016	5ST3010-2, 5ST3011-2, 5ST3012-2	5ST3013, 5ST3014, 5ST3015, 5ST3013-0XX01[1]	5ST3013-2, 5ST3014-2, 5ST3015-2	5SW3330	5ST1010-0FP
Standards							
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1				IEC/EN 62019	
	UL, CSA	UL 1077, CSA C22.2 No. 235	–	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	50 mA, 24 V	5 mA, 24 V DC
Maximum contact load		–		100 mA, 30 V DC	50 mA, 30 V DC	–	
Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-12	–				5/–	6 A/–
	230 V AC, AC-13	6 A/6 A		–			
	400 V AC, AC-13	2 A/2 A		–			
	230 V AC, AC-14	6 A/6 A		–			
	400 V AC, AC-14	2 A/2 A		–			
	24 V DC, DC-13	6 A/3 A		–			
	30 V DC, DC-14	–		0.1 A		–	
	60 V DC, DC-13	3 A/1.5 A		–			
	110 V DC, DC-13	1 A/0.75 A		–			
	220 V DC, DC-12	–				0.5/–	1 A/–
	220 V DC, DC-13	1 A/0.5 A		–			
Contact load acc. to UL	120 V AC	–					
	125 V AC	3 A	–				
	240 V AC	4 A	–				
	277 V AC	–					
	480 V AC	–					
	60 V DC	–					
	125 V DC	1.1 A	–				
	250 V DC	0.55 A	–				
Service life, on average, with rated load	Actuations	20000				–	8000
Safety							
Short-circuit protection		Miniature circuit breakers 5SY... 6 A or gG 6 A fuse				B6 or C6 or gL/gG 6 A fuse	
Connections							
Conductor cross-sections		0.5 ... 2.5 mm² (AWG 22 ... 14)				0.75 ... 2.5 mm²	
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)				–	0.6 Nm
Ambient conditions							
Permissible ambient temperature		–40 ... +70 °C					–25 ... +60 °C
Permissible storage temperature		–40 ... +75 °C					–40 ... +70 °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	150 m/s²					–
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²					–

[1] No approvals

Quick selection guide, page 4/51

Electrical accessories

Fault signal contacts (FC)

- Signals automatic tripping of the circuit protection 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 mounted circuit protection device is tripped manually
- Version with TEST and RESET buttons enables the testing of control circuits without operation of the circuit protection device
- Red RESET button in the operating handle indicates automatic tripping of the mounted circuit protection device

For combining with basic units					Contacts	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Circuit breakers for equipment	RCCBs	RCBOs	Arc fault detection devices			
Fault signal contacts (FC)							
5SL, 5SY, 5SP4, 5SP5	5SY17	5SV (16 ... 80 A)	5SU1 [1], 5SV1	5SV6	1 NO + 1 NC	0.5 MW	5ST3020
					2 NO	0.5 MW	5ST3021
					2 NC	0.5 MW	5ST3022
Fault signal contacts (FC) with TEST and RESET buttons							
5SL, 5SY, 5SP4, 5SP5	5SY17	5SV (16 ... 80 A)	5SU1 [1], 5SV1	5SV6	1 NO + 1 NC	0.5 MW	5ST3020-2
					2 NO	0.5 MW	5ST3021-2
					2 NC	0.5 MW	5ST3022-2

[1] 5ST3805-1 handle coupler required

Further technical specifications

		5ST3020, 5ST3021, 5ST3022	5ST3020-2, 5ST3021-2, 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 acc. to IEC/EN 62019/IEC/EN 60947-5-1	230 V AC, AC-13	6 A/6 A	
	400 V AC, AC-13	6 A/6 A	
	230 V AC, AC-14	2 A/2 A	
	400 V AC, AC-14	2 A/2 A	
	24 V DC, DC-13	6 A/3 A	
	60 V DC, DC-13	3 A/1.5 A	
	110 V DC, DC-13	1 A/0.75 A	
	220 V DC, DC-13	1 A/0.5 A	
Contact load acc. to UL	120 V AC	–	
	125 V AC	3 A	–
	240 V AC	4 A	–
	277 V AC	–	
	480 V AC	1.5 A	–
	60 V DC	–	
	125 V DC	1.1 A	–
	250 V DC	0.55 A	–
Service life, on average, with rated load	Actuations	20000	
Safety			
Short-circuit protection		Miniature circuit breaker or gG 6 A fuse	
Connections			
Conductor cross-sections		0.5 ... 2.5 mm² (AWG 22 ... 14)	
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)	
Ambient conditions			
Permissible ambient temperature		–25 ... +55 °C	
Permissible storage temperature		–40 ... +75 °C	
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles	
Mounting position		Any	
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	150 m/s²	
Resistance to vibration at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²	

Quick selection guide, page 4/51

Auxiliary switches and fault signal contacts (AS+FC)

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

For combining with basic units					Contacts	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Circuit breakers for equipment	RCCBs	RCBOs	Arc fault detection devices			
Auxiliary switches and fault signal contacts (AS+FC)							
5SL, 5SY, 5SP4, 5SP5	5SY17	5SV (16 ... 80 A)	5SU1 [1], 5SV1	5SV6	1 CO (AS) + 1 CO (FC)	0.5 MW	5ST3062

[1] 5ST3805-1 handle coupler 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/ IEC/EN 60947-5-1	230 V AC, AC-13	6 A/6 A
	400 V AC, AC-14	2 A/2 A
Contact load according to IEC/EN 62019/ 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
Contact load acc. to UL	125 V AC	2 A
	240 V AC	1.5 A
	480 V AC	0.75 A
	125 V DC	0.5 A
	250 V DC	0.3 A
Service life, on average, with rated load	Actuations	20000
Safety		
Short-circuit protection		Miniature circuit breaker or gG 6 A fuse
Connections		
Conductor cross-sections		0.5 ... 2.5 mm^2 (AWG 22 ... 14)
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)
Ambient conditions		
Permissible ambient temperature		–25 ... +55 °C
Permissible storage temperature		–40 ... +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	150 m/s^2
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s^2

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Electrical accessories

5ST3 COM auxiliary switches and fault signal contacts (AS+FC) with measuring and communication function

- Reports the switching state of the mounted standard circuit protection device (ON, tripped, manual OFF, tripped with locked handle)
- Measures the temperature of the device and counts operating cycles, trips and operating hours
- Communication via radio to SENTRON Powercenter 1000 data transceiver
- Plug-in terminals for 24 V DC power supply incl. daisy chain function
- Low space requirements of 0.5 MW (9 mm)

For combining with basic units						Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Circuit breakers for equipment	RCCBs	RCBOs	Arc fault detection devices	Communication		
5ST3 COM auxiliary switches and fault signal contacts (AS+FC) with measuring and communication function							
5SL, 5SY, 5SP4, 5SP5	5SY17	5SV (16 ... 80 A)	5SU1 [1], 5SV1	5SV6	Radio link to SENTRON Powercenter 1000	0.5 MW	5ST3062-0MC

[1] 5ST3805-1 handle coupler required

Note:
Please note the country-specific radio licenses of the products at
www.siemens.com/lowvoltage/certificates (109801197)

Further technical specifications

		5ST3062-0MC
Standards		
Standards	IEC/EN; UL, CSA	60669-2-5
	RED	2014/53/EU
Power supply		
Power supply		24 V DC ±20%, SELV
Conductor cross-sections		0.2 ... 1.5 mm²
Connection type		Plug-in terminal
Safety		
Degree of pollution for overvoltage category		2/II
Degree of protection		IP40, with front cover
Ambient conditions		
Permissible ambient temperature		–25 ... +60 °C
Permissible storage temperature		–40 ... +85 °C
Humidity		93% at 40 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock		150 m/s²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²
Service life/endurance		10000
Communication		
Interface	SENTRON Powercenter 1000	Radio link
Temperature		Measuring accuracy of 2 °C with limit monitoring incl. storage (1 hour in 1-minute intervals and 7 days in 15-minute intervals)
Operating cycles counters		Mechanical operation with limit monitoring
Trip counter		Trip of the mounted circuit protection device with limit monitoring
Operating hours counter		Operating hours with limit monitoring

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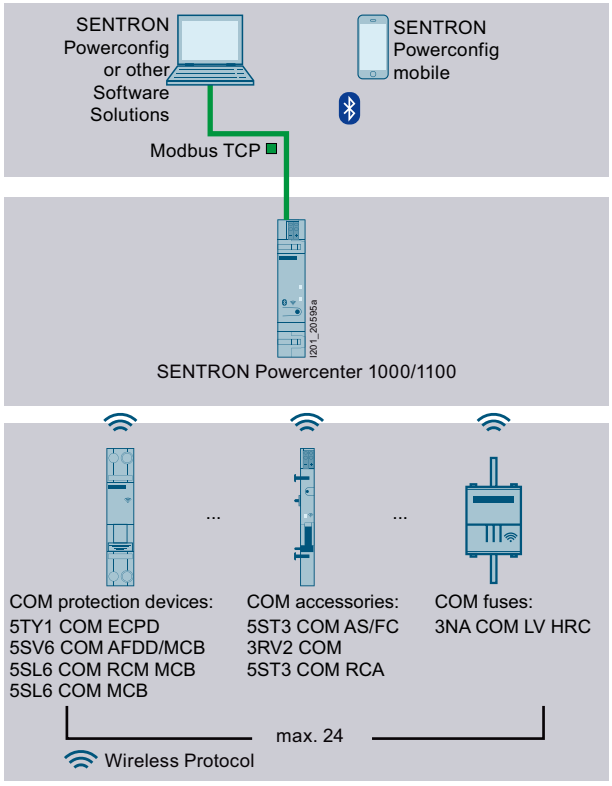
SENTRON Powercenter 1000/1100 data transceiver



- Wireless radio transmission of measured values and data to the SENTRON Powercenter 1000/1100 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100 data transceiver

SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
SENTRON Powercenter 1100	7KN1111-0MC00

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You will find further information at **www.siemens.com/lowvoltage/manuals**

Installation Manual – Circuit protection devices with communication and measuring function **(109791805)**

System Manual – Circuit protection devices with communication and measuring function **(109791806)**

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Electrical accessories

Shunt trips (ST)

- For remote-controlled tripping of the mounted device

For combining with basic units Miniature circuit breakers	RCCBs	RCBOs	Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Shunt trips (ST)					
5SL4, 5SY, 5SP4, 5SP5	5SV (16 ... 80 A)	5SU1 [1]	110 ... 415 V AC, 110 ... 220 V DC	1 MW	5ST3030
			24 ... 48 V AC/DC	1 MW	5ST3031
			12 V DC	1 MW	5ST3031-0XX01

[1] 5ST3805-1 handle coupler required

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

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Undervoltage releases (UR)

- Are integrated (e.g. in EMERGENCY-OFF loops), thus ensuring that the MCB trips in the event of an emergency. EMERGENCY-OFF is a function provided to disconnect the electricity supply to all or some parts of the installation in case of emergency, when there is a risk of electric shock or any other hazard caused by electrical power
- In addition, an undervoltage release also trips if the voltage is interrupted or too low, or prevents the MCB from closing
- Suitable for use with all devices that can be mounted for implementing EMERGENCY-OFF circuits
- In conjunction with 5SV residual current operated circuit breakers (RCCBs), not suitable for implementing EMERGENCY-STOP circuits

For combining with basic units Miniature circuit breakers	RCCBs	RCBOs	Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
With integrated auxiliary switch					
5SL4, 5SY, 5SP4, 5SP5	5SV (16 ... 80 A)	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, 5SP5	5SV (16 ... 80 A)	5SU1 [1]	230 V AC	1 MW	5ST3043
			110 V DC	1 MW	5ST3044
			24 V DC	1 MW	5ST3045

[1] 5ST3805-1 handle coupler 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 breaker 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)
Ambient conditions		
Permissible ambient temperature		–25 ... +55 °C
Permissible storage temperature		–40 ... +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	150 m/s²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²

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Electrical accessories

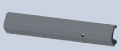
5ST3 remote control auxiliaries (RCA)

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

Type	Display	Ambient temperature	Vibration and shock requirements	Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Basic	–	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	1.5 MW	5ST3053
				177 ... 270 V AC	2 MW	5ST3054
Power	LED	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3055
				177 ... 270 V AC	2 MW	5ST3056
Power with ARD	LED	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3057
				177 ... 270 V AC	2 MW	5ST3058
Power with extended function	LED	–40 °C ... +70 °C	Acc. to IEC/EN 61373/ IEC/EN 50155 "1B"	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3070
				170 ... 277 V AC, 77 ... 286 V DC	2 MW	5ST3071
With IR test before ARD new	LED	–40 °C ... +70 °C	–	100 ... 240 V AC	2.5 MW	5ST3074

Further technical specifications	5ST3053	5ST3054	5ST3055	5ST3056	5ST3057	5ST3058	5ST3070	5ST3071	5ST3074 new
Standards									
Standards	IEC/EN 63024 (VDE 0640-21)								
Supply									
Rated frequency f_n	50 ... 60 Hz								
Rated power dissipation on standby	≤ 1 VA								≦ 1.5 VA
Contacts									
Service life, on average, with rated load Actuations	10000								
Number of remote switching operations per minute	2								4
Number of automatic reclose attempts	–				3		–		3
Cable length in the control circuit	≤ 1500 m							≤ 1500 m (DC)/ ≤ 200 m (AC)	≤ 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)								
Ambient conditions									
Permissible storage temperature	–40 ... +55 °C						–40 ... +70 °C		
Degree of protection	IP20								
Degree of pollution for overvoltage category	3/II								

Suitable adapters for combination with basic units



Basic units	Mounting width							Article No.
	1 MW	2 MW	3 MW	4 MW	2-pole	3-pole	4-pole	
5SU1	–	■	■	–	–	–	–	5ST3820-5
5SV1	■	–	–	–	–	–	–	5ST3820-6
5SV (16 ... 80 A)	–	■	–	■	–	–	–	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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5ST3 COM remote control auxiliaries (RCA) with communication function new

- For locations that are spread out over a wide area or not permanently attended
- Permit access to the installation even if it is remote or in a location that is hard to access
- Remote control via wired contact or communications interface to Powercenter 1000
- Permit fast reconnection after a fault
- With integrated and adjustable reclosing function (ARD)
- Versions with automatic and adjustable RCD/IR test function

Type	Display	Ambient temperature	Vibration and shock requirements	Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Communication-capable	LED	–40 °C ... +70 °C	Acc. to IEC/EN 61373	100 ... 240 V AC	2 MW	5ST3072-0MC
Communication-capable with RCD/IR test	LED	–40 °C ... +70 °C	Acc. to IEC/EN 61373	100 ... 240 V AC	2.5 MW	5ST3073-0MC

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Further technical specifications

		5ST3072-0MC, 5ST3073-0MC
Standards		
Standards		IEC/EN 63024
General product approvals		RED2014/53/EU
Basic data		
Rated frequency f_n		50/60 Hz
Service life, on average, with rated load	Actuations	10000
Number of ARD attempts		3 (+3 adjustable)
Contacts		
Conductor cross-sections		0.5 ... 1.5 mm²
Type of connection		Screw terminals
Ambient conditions		
Permissible storage temperature		–40 ... +70 °C
Communication function		
Interface	SENTRON Powercenter 1000	Wireless
Metering values		Circuit breaker status, temperature, operating cycles, trip counter, operating hours
Switching command		Wired, via communication
Configuration	5ST3072-0MC	Alarms, origin, switching command, ARD times
	5ST3073-0MC	Alarms, origin, switching command, ARD times, test function
Test function		
RCD test		Measurement, tripping current, tripping time
IR measurement	Acc. to IEC/EN 63024	Measurement, insulation resistance
Manual test start		Wired, via communication
Automatic test start		Adjustable time and repeat interval

Suitable adapters for combination with basic units

Basic units	Mounting width							Article No.
	1 MW	2 MW	3 MW	4 MW	2-pole	3-pole	4-pole	
5SU1	–	■	■	–	–	–	–	5ST3820-5
5SV1	■	–	–	–	–	–	–	5ST3820-6
5SV (16 ... 80 A)	–	■	–	■	–	–	–	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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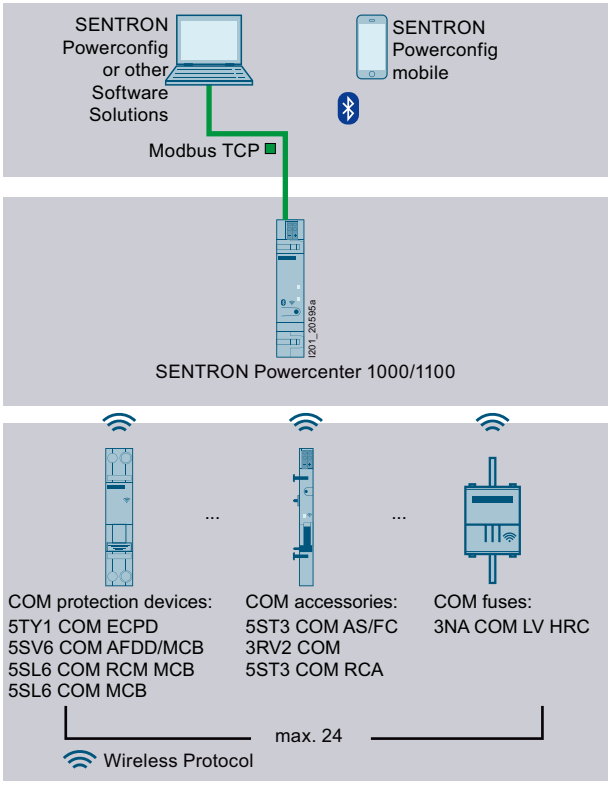
Electrical accessories

5ST3 COM remote control auxiliaries (RCA) with communication function new

SENTRON Powercenter 1000/1100 data transceiver



- Wireless radio transmission of measured values and data to the SENTRON Powercenter 1000/1100 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100 data transceiver

SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
SENTRON Powercenter 1100	7KN1111-0MC00

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You will find further information at www.siemens.com/lowvoltage/manuals

Installation Manual – Circuit protection devices with communication and measuring function (109791805)

System Manual – Circuit protection devices with communication and measuring function (109791806)

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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 (16 ... 80 A) RCCBs, 5SV1 RCBOs, 5SV6 AFDD/MCB, 5TY1 COM electronic circuit protection devices (ECPD)	5ST3806
For 5SU1 RCBOs	5ST3801-1

Locking device

- For 5SV (16 ... 80 A) RCCBs, 5SV1 RCBOs, 5SV6 AFDD/MCB

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

Padlock

- For 5ST3801-1 and 5ST3806 handle locking devices and 5ST3054 ... 58, 5ST3070 remote control auxiliaries, 5TY1 COM electronic circuit protection devices (ECPD)

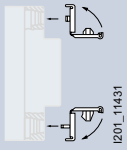
	Article No.
	5ST3802

Device labels

- For adhesive attachment
- For modular installation devices, e.g. 5SY, 5SL, 5TL1

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

Covers for connection terminals



- For 5SV3 (16 ... 80 A) and 5SV4 (16 ... 80 A) 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, degree of protection IP40
- 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, degree of protection IP40
- 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
- Degree of protection IP54

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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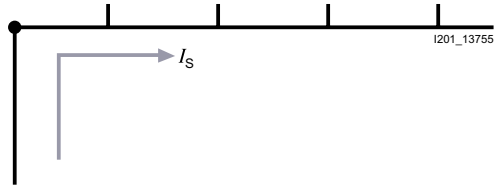
Standard busbars

General information

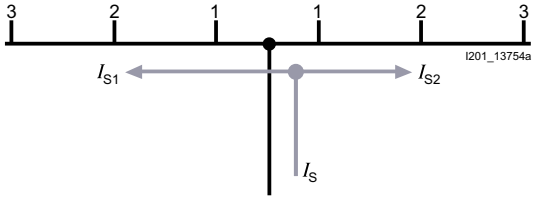
Infeed

At the start or end of the busbar



Maximum busbar current I_s/phase
- Cross-section 10 mm²: 63 A
- Cross-section 16 mm²: 80 A

Along the busbar or midpoint infeed



Maximum busbar current I_s/phase
- Cross-section 10 mm²: 100 A
- Cross-section 16 mm²: 130 A

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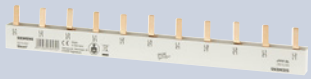
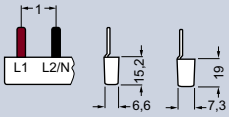
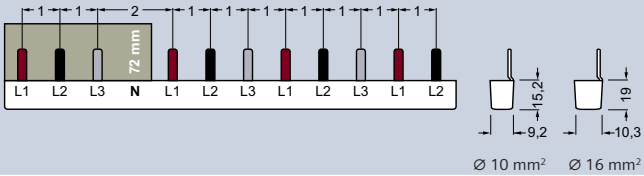
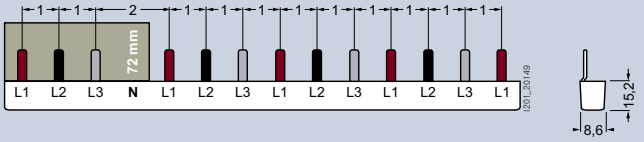
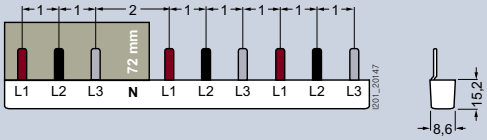
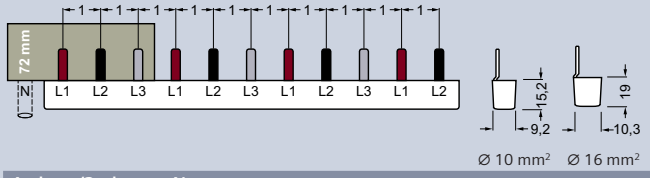
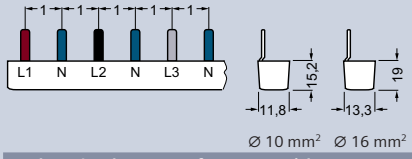
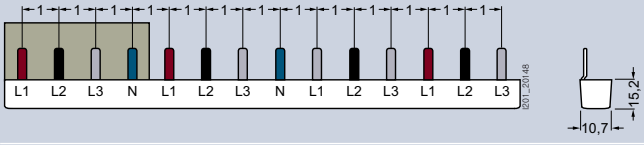
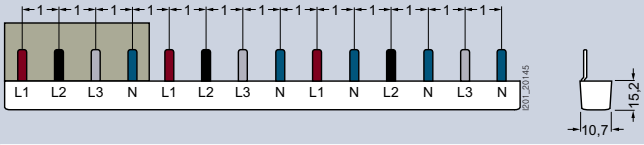
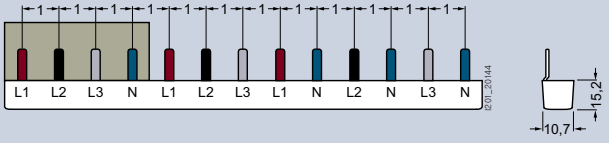


Fixed lengths, cannot be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section 10 mm²	16 mm²
2-phase/1-phase + N				Article No.	Article No.
 Ø 10 mm² Ø 16 mm²	For 6 × 2 MW devices (2P)	12 MW	210 mm	5ST3608	5ST3638
3-phase, for MCBs with RCCB				Article No.	Article No.
 Ø 10 mm² Ø 16 mm²	For 8 MCBs 1P with 1 RCCB 3P+N, N right	12 MW	210 mm	5ST3624	5ST3654
	For 10 MCBs 1P with 1 RCCB 3P+N or for 1 RCCB 3P+N, 1 MCB 3P and 7 MCBs 1P	14 MW	249 mm	5ST3624-4	–
	For 6 MCBs 1P with 1 RCCB 3P+N or for 1 RCCB 3P+N, 1 MCB 3P and 3 MCBs 1P	10 MW	176 mm	5ST3624-1	–
 Ø 10 mm² Ø 16 mm²	For 8 MCBs 1P with 1 RCCB 3P+N, N left	11 MW	192 mm	5ST3667	5ST3668
4-phase/3-phase + N				Article No.	Article No.
 Ø 10 mm² Ø 16 mm²	For 6 × 2MW devices (1P+N)	12 MW	215 mm	5ST3623	5ST3653
4-phase/3-phase + N, for MCBs with RCCB				Article No.	Article No.
	For 1 RCCB 3P+N, 1 MCB 3P+N and 6 MCBs 1P	14 MW	248 mm	5ST3724-4	–
	For 1 RCCB 3P+N, 1 MCB 3P+N and 3 MCBs 1P+N	14 MW	248 mm	5ST3725-4	–
	For 1 RCCB 3P+N, 1 MCB 3P and 3 MCBs 1P+N	13 MW	230 mm	5ST3725-3	–
	For 1 RCCB 3P+N and 5 MCBs 1P+N	14 MW	248 mm	5ST3625-4	–

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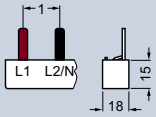
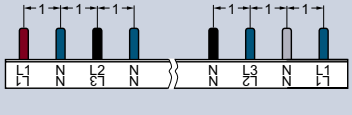
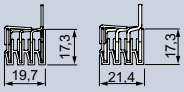
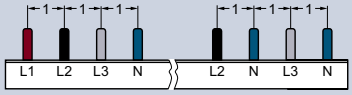
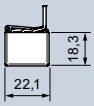
Standard busbars

Can be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section 10 mm²	16 mm²
2-phase/1-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
4-phase/3-phase + N, for MCBs with RCCB					Article No.	Article No.
  Ø 10 mm² Ø 16 mm²	For RCBOs or MCBs 1P+N	56 MW	1000 mm	–	5ST3770-2	5ST3770-3
 	For 6 MCBs 1P+N with 1 RCCB 3P+N, N right	16 MW	292 mm	■	5ST3770-4	5ST3770-5

Accessories for busbars 5ST36 and 5ST37

End caps for 5ST37

Version	Article No.
For 2- and 3-phase busbars	5ST3750
For 4-phase busbars	5ST3718

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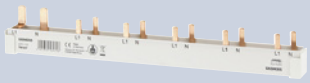
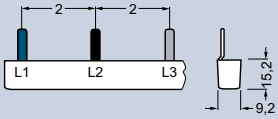


5ST36 and 5ST37

Fixed lengths, cannot be cut, for devices with add-on 5SM6 arc fault detection units and 5TY1 COM electronic circuit protection devices (ECPD)

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Color	Conductor cross-section 10 mm²
3-phase						**Article No.**
	For 5SM601. and 5TY1 COM	12 MW	210 mm	–	Gray	5ST3615-1

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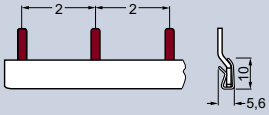
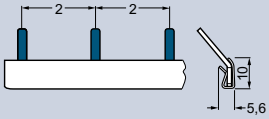
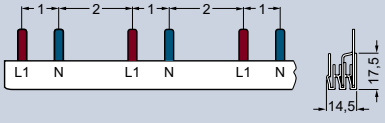
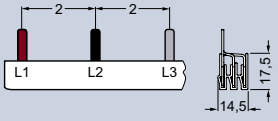
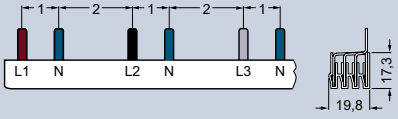
Can be cut, for devices with add-on 5SM6 arc fault detection units and 5TY1 COM electronic circuit protection devices (ECPD)

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Color	Conductor cross-section 10 mm²
1-phase, straight						**Article No.**
	For 5SM601. and 5TY1 COM	56 MW	1000 mm	–	Gray	5ST3764-1
					Blue	5ST3765-2
1-phase, angled 45°						**Article No.**
	For 5SM601. and 5TY1 COM	56 MW	1000 mm	–	Blue	5ST3765-1
2-phase/1-phase + N						**Article No.**
	For 5SM602. (1P+N)	56 MW	1000 mm	–	Gray	5ST3735-1
3-phase						**Article No.**
	For 5SM601. and 5TY1 COM	60 MW	1050 mm	–	Gray	5ST3740-1
4-phase/3-phase + N						**Article No.**
	For 5SM602.	52 MW	950 mm	–	Gray	5ST3746-1

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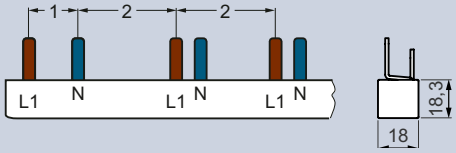
Standard busbars

5ST36 and 5ST37

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

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Color	Conductor cross-section 16 mm²
2-phase/1-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 6 ... 25 mm²	Short	5ST3768
	Short, IP20	5ST3771-2
	Long	5ST3771-1
End caps		**Article No.**
For 1-phase busbars	Gray	5ST3766
	Blue	5ST3767
For 2 and 3-phase busbars		5ST3750
For 4-phase busbars		5ST3718
Touch protection		**Article No.**
For free connections, yellow (RAL 1004) 5 × 1 pin		5ST3655

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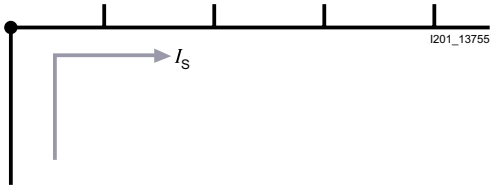
Compact busbars

General information

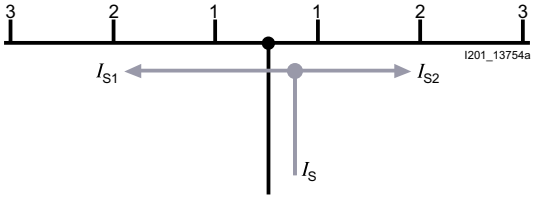
Infeed

At the start or end of the busbar



Maximum busbar current I_S/phase
- Cross-section 10 mm²: 63 A
- Cross-section 16 mm²: 80 A

Along the busbar or midpoint infeed



Maximum busbar current I_S/phase
- Cross-section 10 mm²: 100 A
- Cross-section 16 mm²: 130 A

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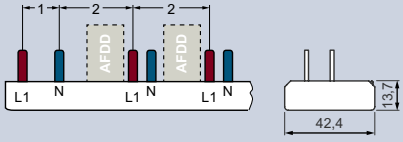
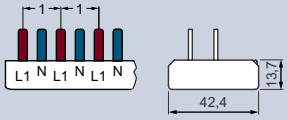
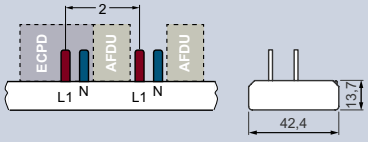
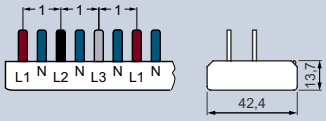
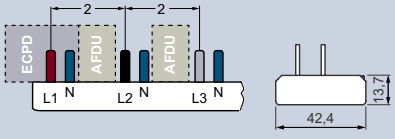
Compact busbars

5ST36, fixed lengths, cannot be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section 10 mm²
2-phase/1-phase + N, for infeed via RCCB					**Article No.**
	For 1 × RCCB 1P+N and 5 × compact devices equipped with 5SM6 arc fault detection unit	12 MW	216 mm	■	5ST3685-0
2-phase/1-phase + N					**Article No.**
	For compact devices	6 MW	113 mm	■	5ST3674-6
		9 MW	166 mm	■	5ST3674-7
		12 MW	218 mm	■	5ST3674-0
	For 6 × compact devices equipped with 5SM6 arc fault detection unit and 5TY1 COM electronic circuit protection devices (ECPD)	12 MW	200 mm	■	5ST3676-0
4-phase/3-phase + N					**Article No.**
	For compact devices	6 MW	113 mm	■	5ST3673-6
		9 MW	166 mm	■	5ST3673-7
		12 MW	218 mm	■	5ST3673-0
		14 MW	254 mm	■	5ST3673-4
	For 6 × compact devices equipped with 5SM6 arc fault detection unit and 5TY1 COM electronic circuit protection devices (ECPD)	11 MW	200 mm	■	5ST3675-0

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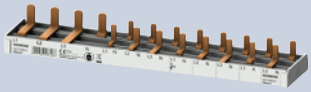
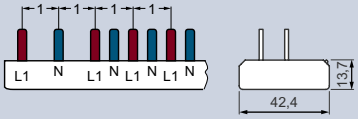
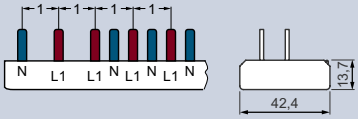
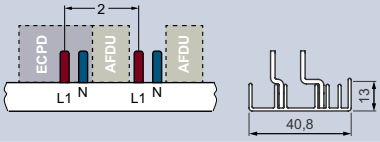
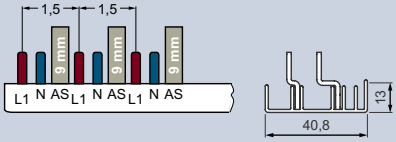
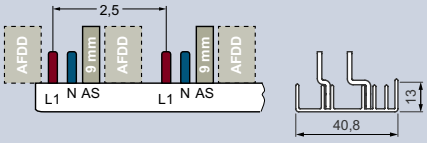
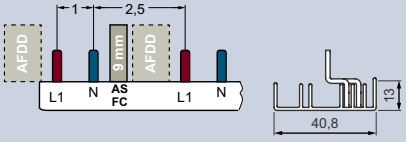


5ST37, can be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section 10 mm²
2-phase/1-phase + N, for infeed via RCCB					**Article No.**
	For 1 × RCCB 1P+N and 10 × compact devices	12 MW	215 mm	■	5ST3784-0
	For 1 × RCCB 1P+N (RCCB N left only) and 10 × compact devices	12 MW	215 mm	■	5ST3784-0KL
2-phase/1-phase + N					**Article No.**
	For compact devices	60 MW	1060 mm	–	5ST3774-0
	For compact devices equipped with 5SM6 arc fault detection unit and 5TY1 COM electronic circuit protection devices (ECPD)	59 MW	1042 mm	–	5ST3776-0
	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	–	5ST3778-0
	For compact devices equipped with 5SM6 arc fault detection unit and auxiliary switch	58.5 MW	1036 mm	–	5ST3780-0
	For 2 MW units (MCBs or RCBOs) with mounted 5SM6 arc fault detection unit and auxiliary switch	54 MW	956 mm	–	5ST3786-0

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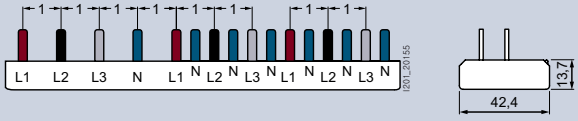
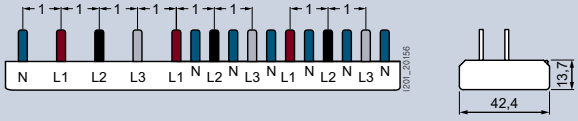
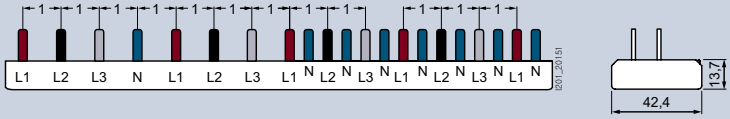
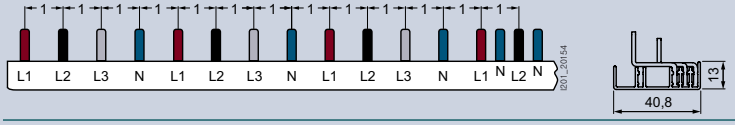
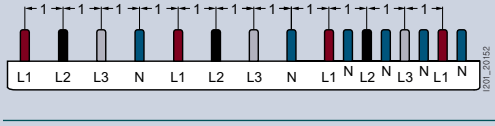
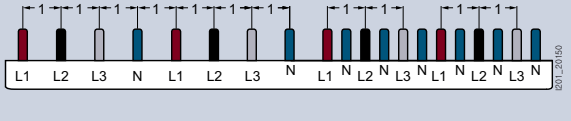
Compact busbars

5ST37, can be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section 10 mm²
4-phase/3-phase + N, for infeed via RCCB					Article No.
	For 1 × RCCB 3P+N and 6 × compact devices	10 MW	181 mm	■	5ST3783-1
	For 1 × RCCB 3P+N and 8 × compact devices	12 MW	216 mm	■	5ST3783-0
	For 1 × RCCB 3P+N and 10 × compact devices	14 MW	251 mm	■	5ST3783-4
	For 1 × RCCB 3P+N (RCCB N left only) and 6 × compact devices	10 MW	181 mm	■	5ST3783-1KL
	For 1 × RCCB 3P+N (RCCB N left only) and 8 × compact devices	12 MW	216 mm	■	5ST3783-0KL
	For 1 × RCCB 3P+N, 1 × MCB 3P and 7 × compact devices	14 MW	253 mm	■	5ST3785-4
	For 1 × RCCB 3P+N, 2 × MCBs 3P+N and 12 × compact devices	24 MW	430 mm	■	5ST3790-1
	For 1 × RCCB 3P+N, 2 × MCBs 3P+N and 45 × compact devices	57 MW	1009 mm	–	5ST3790-2
	For 1 × RCCB 3P+N, 1 × MCB 3P+N and 4 × compact devices	12 MW	217 mm	■	5ST3795-0
	For 1 × RCCB 3P+N, 1 × MCB 3P+N and 6 × compact devices	14 MW	253 mm	■	5ST3795-4

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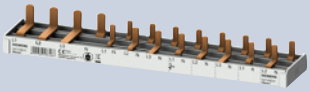
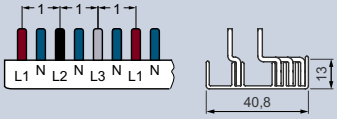
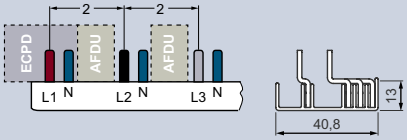
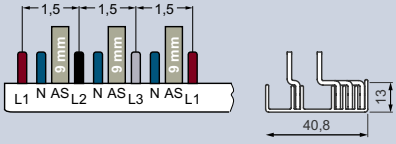


Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section 10 mm²
4-phase/3-phase + N					**Article No.**
	For compact devices	60 MW	1060 mm	–	5ST3773-0
	For compact devices equipped with 5SM6 arc fault detection unit and 5TY1 COM electronic circuit protection devices (ECPD)	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 2- and 4-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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Appendix

A

Conditions of sale and delivery

1. General Provisions

By using this catalog you can purchase hard- and software products as well as services (together hereinafter referred to as "products") described therein from Siemens Aktiengesellschaft subject to the following Terms and Conditions of Sale and Delivery (hereinafter referred to as "T&C"). Note, for products purchased from any Siemens entity having a registered office outside of Germany, the respective terms and conditions of sale and delivery of the respective Siemens entity apply exclusively. The following T&C apply exclusively for orders placed with Siemens Aktiengesellschaft, Germany.

1.1 For customers with a seat or registered office in European Union

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

- for products, which include specific terms and conditions in the text of the product description, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the "General Conditions for Software Products for Infrastructure & Industry Business (German law)"[1)] and/or
- for consulting services the "Allgemeine Geschäftsbedingungen für Beratungsleistungen für Infrastructure & Industry Geschäft (Deutsches Recht)"[1)] (available only in German) and/or
- for other services, the "Supplementary Terms and Conditions for Services for Infrastructure & Industry Business (German Law) ("BL")"[1)] and/or
- for other products the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)].
  In case such products should contain Open Source Software, the conditions of which shall prevail over the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1)], the Product will be given a note as to which special conditions apply to this open source software. This shall apply mutatis mutandis for notices referring to other third-party software components.

1.2 For customers with a seat or registered office outside European Union

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

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the "Standard Terms and Conditions for Consulting Services for Infrastructure & Industry Business (Swiss Law)"[1)] and/or
- for other services the "International Terms & Conditions for Services"[1)] supplemented by "Software Licensing Conditions"[1)] and/or
- for other products the "International Terms & Conditions for Products"[1)] supplemented by "Software Licensing Conditions"[1)]

1.3 For customers with master or framework agreement

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

2. Additional Terms and Conditions

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

Illustrations are not binding.

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

[1)] The text of the Terms and Conditions of Siemens AG can be downloaded at https://mall.industry.siemens.com/legal/ww/en/terms_of_trade_en.pdf

3. Export Control and Sanctions Compliance

3.1 General

Customer shall comply with all applicable sanctions, embargoes and (re-)export control laws and regulations, and, in any event, with those of the European Union, the United States of America and any locally applicable jurisdiction (collectively "Export Regulations").

3.2 Checks for Products

Prior to any transaction by customer concerning products (including hardware, documentation and technology) delivered by Siemens, or products (including maintenance and technical support) performed by Siemens with a third party, customer shall check and certify by appropriate measures that

- (i) the customer's use, transfer, or distribution of such products, the brokering of contracts or the provision of other economic resources in connection with products will not be in violation of any Export Regulations, also taking into account any prohibitions to circumvent these (e.g., by undue diversion)
- (ii) the products are not intended or provided for prohibited or unauthorized non-civilian purposes (e.g. armaments, nuclear technology, weapons, or any other usage in the field of defense and military);
- (iii) customer has screened all direct and indirect parties involved in the receipt, use, transfer, or distribution of the products against all applicable restricted party lists of the Export Regulations concerning trading with entities, persons and organizations listed therein and
- (iv) products within the scope of items-related restrictions, as specified in the respective annexes to the Export Regulations, will not, unless permitted by the Export Regulations, be
  (a) exported, directly or indirectly (e.g., via Eurasian Economic Union (EAEU) countries), to Russia or Belarus, or
  (b) resold to any third party business partner that does not take a prior commitment not to export such products to Russia or Belarus.

3.3 Non-Acceptable Use of Software and Cloud Services

Customer shall not, unless permitted by the Export Regulations or respective governmental licenses or approvals,

- (i) download, install, access or use the products from or in any location prohibited by or subject to comprehensive sanctions or subject or to license requirements according to the Export Regulations;
- (ii) grant access to, transfer, (re-)export (including any "deemed (re-)exports"), or otherwise make available the products to any entity, person, or organization identified on a restricted party list of the Export Regulations;
- (iii) use the products for any purpose prohibited by the Export Regulations (e.g. use in connection with armaments, nuclear technology or weapons);
- (iv) upload to a products platform any customer content unless it is non-controlled (e.g. in the EU: AL = N; in the U.S.: ECCN = N or EAR99);
- (v) facilitate any of the afore mentioned activities by any user. Customer shall provide all users with all information necessary to ensure compliance with the Export Regulations.

3.4 Semiconductor Development

Customer will not, without advance written authorization from Siemens, use offerings for the development or production of integrated circuits at any semiconductor fabrication facility located in China meeting the criteria specified in the U.S. Export Administration Regulations, 15 C.F.R. 744.23.

3.5 Information

Upon request by Siemens, customer shall promptly provide Siemens with all information pertaining to users, the intended use and the location of use or the final destination (in the case of hardware, documentation and technology) of the products. Customer will notify Siemens prior to customer disclosing any information to Siemens that is defense-related or requires controlled or special data handling pursuant to applicable government regulations, and will use the disclosure tools and methods specified by Siemens.

3.6 Reservation

Siemens shall not be obligated to fulfill this agreement if such fulfillment is prevented by any impediments arising out of national or international foreign trade or customs requirements or any embargoes or other sanctions. Customer acknowledges that Siemens may be obliged under the Export Regulations to limit or suspend access by customer and/or users to products.

4. Miscellaneous

Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
Tender specifications	www.siemens.com/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
Image database	www.siemens.com/lowvoltage/picturedb
CAx download manager	www.siemens.com/cax
Newsletter system	www.siemens.com/lowvoltage/newsletter
Siemens YouTube channel	www.youtube.com/Siemens
Catalog LV 10	www.siemens.com/lv10
Catalog LV 13	www.siemens.com/lv13
Catalog LV 18	www.siemens.com/lv18
Brochures/catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions/manuals	www.siemens.com/lowvoltage/manuals
SiePortal	www.siemens.com/sieportal
SiePortal (knowledge base)	www.siemens.com/lowvoltage/product-support
SiePortal (product catalog)	www.siemens.com/lowvoltage/product-catalog
Online Support App	www.siemens.com/support-app
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Direct forwarding to SiePortal	www.siemens.com/product_catalog_SIEP?Article No.
Training	www.siemens.com/sitrain-lowvoltage
Local contacts	www.siemens.com/lowvoltage/contact www.siemens.com/lowvoltage/components/contact www.siemens.com/lowvoltage/systems/contact www.siemens.com/lowvoltage/software/contact
Technical Support	www.siemens.com/support-request
Information on services	www.siemens.com/service-offers
Control panels for the North American market	www.siemens.com/northamerican-standards
Integrated Control Panels	www.siemens.com/controlpanel
Smart Control Panel Design	www.siemens.com/controlpanel/cpd
Energy savings and amortization	www.automation.siemens.com/sinasave
SIMATIC Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip
TIA Selection Tool	www.siemens.com/tst
Electrical Product Finder	www.siemens.com/electrical-product-finder
Sustainability	www.siemens.com/sustainability
Siemens EcoTech	www.siemens.com/SiemensEcoTech www.siemens.com/lowvoltage/SiemensEcoTech
SENTRON product phase-out	www.siemens.com/info-sentron

Catalogs and further information

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

PDF (E86060-K8280-A101-B9-7600)

ET D1
Switches and Socket Outlets
DELTA

PDF (SIEP-C10409-00-7600)

LV 13
3WA Air Circuit Breakers
SENTRON

PDF (E86060-K8280-B101-A4-7600)

SiePortal
Information and Ordering Platform on the Internet:

sieportal.siemens.com

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

PDF (E86060-K8280-E347-B2-7600)

SITRAIN
Digital Industry Academy

www.siemens.com/sitrain

IC 10
Industrial Controls
SIRIUS

PDF (E86060-K1010-A101-B7-7600)

Siemens TIA Selection Tool
for the selection, configuration and ordering of TIA products and devices

www.siemens.com/tst

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

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

Cybersecurity information

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

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

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

For additional information on industrial cybersecurity measures that may be implemented, please visit **www.siemens.com/cybersecurity-industry.**

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

To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under **www.siemens.com/cert.**

Get more information

www.siemens.com/lowvoltage

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