



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:



www.siemens.com/lowvoltage/SiemensEcoTech

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



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A multitude of additional information ...

Information + ordering

All the important things at a glance

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.

Electrical Designer

With the Electrical Designer 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/electrical-designer

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
RCBOs5TY1 COM electronic
circuit protection
devices (ECPD)5SM6 arc fault detection units and 5SV6
AFDD/MCB and 5SV6 COM AFDD/MCB

4

Electrical accessories

Auxiliary switches
(AS)Fault signal con-
tacts (FC)Auxiliary switches and
fault signal contacts
(AS+FC)/(AS+FC) COM

Shunt trips (ST)

Undervoltage relea-
ses (UR)Remote control auxiliaries
(RCA)/(RCA) COM

Mechanical accessories



Locking devices



Handle couplers



Touch protection

Wall
enclosuresMolded-plastic
enclosures

Terminal covers

Busbars and accessories



Compact busbars



Standard busbars



Terminals



Touch protection



End caps

RCCB protective socket outlets

In molded-plastic
enclosureFor 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



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

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

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

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	–40 ... +75 °C
	Ambient temperature	–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



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	

RCBOs



5SU1 (up to 40 A)

5SV1

Types		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)

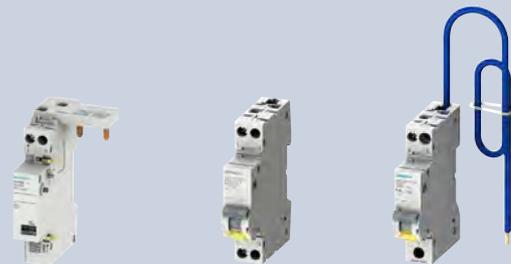
³⁾ Applies only to terminals on the infeed side

⁴⁾ Extension to four-yearly test interval under certain conditions, see SiePortal for details



5SU1 (up to 32 A)		5SU1 (125 A)		5SU1 (100 A, 125 A)		5TY1 COM
Instantaneous	Short-time delayed/ Super resistant	Instantaneous	Short-time delayed/ Super resistant	Short-time delayed/ Super resistant	Selective [S]	SIGRES/ Super resistant
-	-	■	■	-	-	-
■	■	■	■	-	-	-
-	-	-	-	■	■	-
-	-	-	-	■	■	-
-	-	-	-	-	-	■ 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 ⁴⁾
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)		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

Arc fault detection devices (AFDDs)



5SM6

5SV6

5SV6...KP..

Poles			5SM6	5SV6	5SV6...KP..
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	See page 4/57

5SV RCCBs



Type A, 1P+N

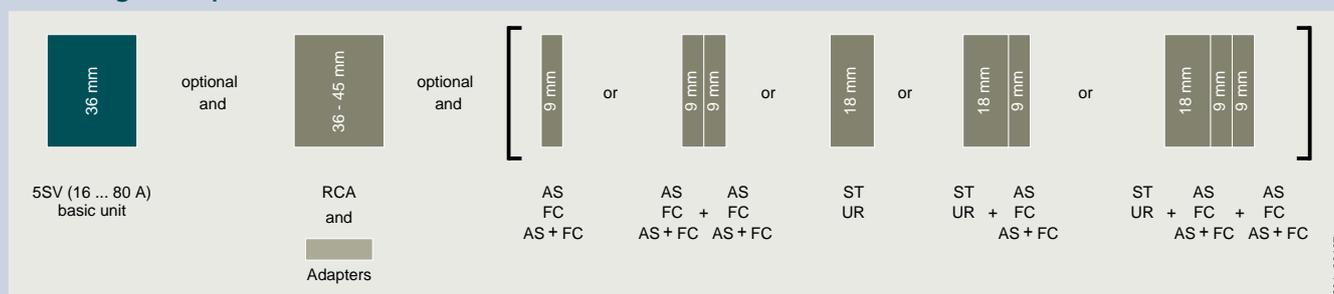
Rated voltage U_n N connection	Instantaneous			Instantaneous (only available in Belgium) ²⁾
	24 ... 125 V AC	230 V AC	230 V AC	230 V AC
Right			Left 	Right

$I_{\Delta n}$	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 4/64
FC	Fault signal contacts	See page 4/66
AS+FC	Auxiliary switches and fault signal contacts	See page 4/67
ST	Shunt trips	See page 4/70
UR	Undervoltage releases	See page 4/71
RCA	Remote control auxiliaries	See page 4/72

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-OXX01
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-OMC

Shunt trips (ST)		Article No.
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-OXX01
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-OMC
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-OMC
Adapters for remote control auxiliaries (RCA)		Article No.
2 MW		5ST3820-6

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
2 MW		5ST3820-6

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
2 MW		5ST3820-6

5SV RCCBs



Type A, 3P+N (4 MW)

Instantaneous

Rated voltage U_n
N connection

400 V AC

Right



Left



400 V AC/400 Hz

Right



500 V AC

Right

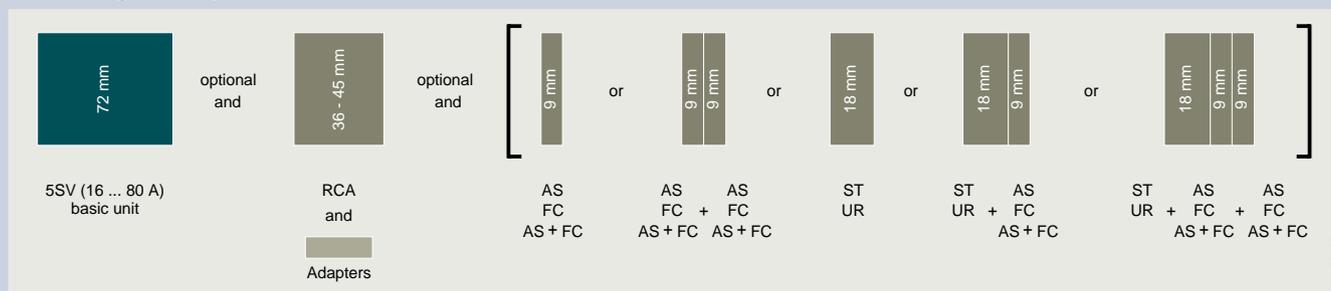


$I_{\Delta n}$	I_n	Thermal overload protection ¹⁾	Bulk packaging (18 units)				
Type A							
30 mA	25 A	–	–	5SV3342-6	5SV3342-6KL	5SV3342-6KK03	5SV3352-6
		–	■	5SV3342-6GV01	–	–	–
	40 A	–	–	5SV3344-6	5SV3344-6KL	5SV3344-6KK03	5SV3354-6
		–	■	5SV3344-6GV01	5SV3344-6GV02	–	–
	63 A	–	–	5SV3344-6LA	–	–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

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
FC Fault signal contacts
AS+FC Auxiliary switches and fault signal contacts

See page 4/64

See page 4/66

See page 4/67

ST Shunt trips
UR Undervoltage releases
RCA Remote control auxiliaries

See page 4/70

See page 4/71

See page 4/72

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.	Undervoltage releases (UR)			Article No.
1 NO + 1 NC	Standard		5ST3010	With integrated	230 V AC		5ST3040
	For low power		5ST3013	auxiliary switch	110 V DC		5ST3041
	For low power (with diode)		5ST3013-0XX01		24 V DC		5ST3042
2 NO	Standard		5ST3011	Without integrated	230 V AC		5ST3043
	For low power		5ST3014	auxiliary switch	110 V DC		5ST3044
2 NC	Standard		5ST3012		24 V DC		5ST3045
	For low power		5ST3015				
1 CO	Standard		5ST3016	Remote control auxiliaries (RCA)			Article No.
Fault signal contacts (FC)			Article No.	Power	12 ... 30 V AC, 12 ... 48 V DC		5ST3055
1 NO + 1 NC			5ST3020		177 ... 270 V AC		5ST3056
2 NO			5ST3021	Power with ARD	12 ... 30 V AC, 12 ... 48 V DC		5ST3057
2 NC			5ST3022		177 ... 270 V AC		5ST3058
Auxiliary switches and fault signal contacts (AS+FC)			Article No.	Power with extended	12 ... 30 V AC, 12 ... 48 V DC		5ST3070
1 CO (AS) + 1 CO (FC)			5ST3062	function	170 ... 277 V AC, 77 ... 286 V DC		5ST3071
5ST3 COM (AS+FC)			5ST3062-0MC	Communication-capable	100 ... 240 V AC		5ST3072-0MC
Shunt trips (ST)			Article No.	Communication-capable with RCD/IR test	100 ... 240 V AC		5ST3073-0MC
110 ... 415 V AC, 110 ... 220 V DC			5ST3030	Adapters for remote control auxiliaries (RCA)			Article No.
24 ... 48 V AC/DC			5ST3031	4 MW			5ST3820-7
12 V DC			5ST3031-0XX01				

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
4 MW		5ST3820-7

5SV RCCBs

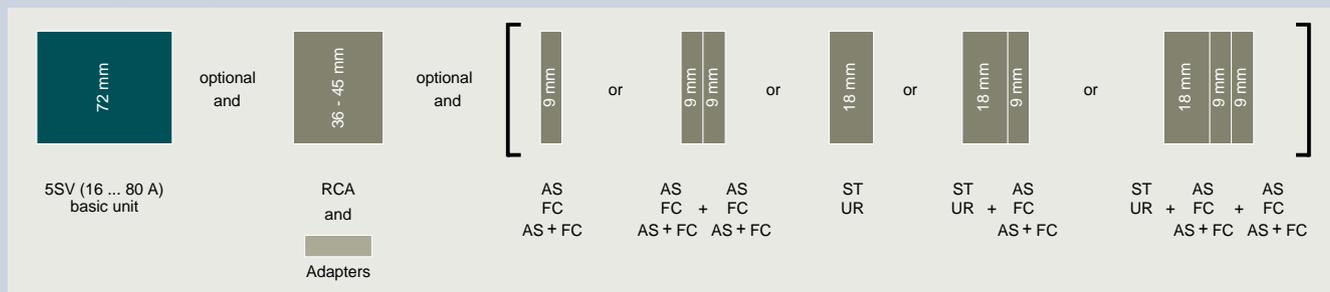
Siemens
EcoTech

Type AC, 3P+N (4 MW)



$I_{\Delta n}$	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	–
		–	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 4/64
FC	Fault signal contacts	See page 4/66
AS+FC	Auxiliary switches and fault signal contacts	See page 4/67
ST	Shunt trips	See page 4/70
UR	Undervoltage releases	See page 4/71
RCA	Remote control auxiliaries	See page 4/72

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
4 MW		5ST3820-7

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	–	–

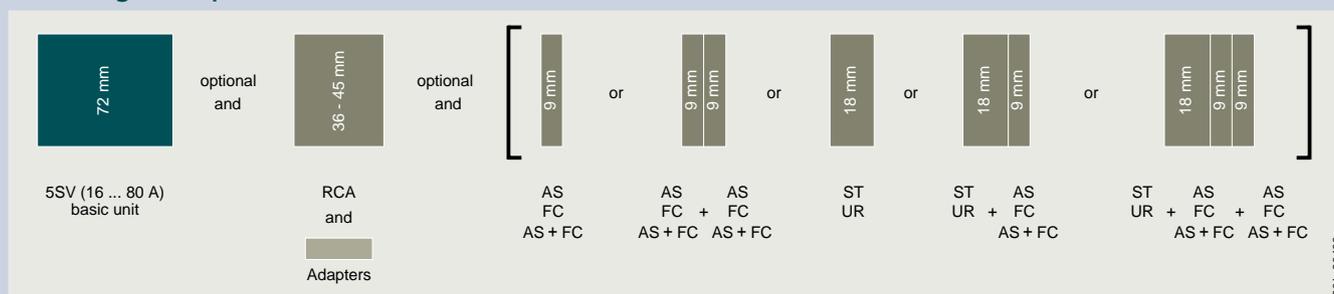
5SV3 RCCBs (SIQUENCE)

Type B, 1P+N (4 MW)

Rated voltage U_n N connection	SIGRES, super resistant [K]	SIGRES, super resistant [K], 6 mA DC
	230 V AC	230 V AC
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 4/64
FC	Fault signal contacts	See page 4/66
AS+FC	Auxiliary switches and fault signal contacts	See page 4/67
ST	Shunt trips	See page 4/70
UR	Undervoltage releases	See page 4/71
RCA	Remote control auxiliaries	See page 4/72

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
4 MW		5ST3820-7

Accessories

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal 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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
4 MW		5ST3820-7

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

5SM2 RC units

Type A, F and AC, 2-pole

For 5SY miniature circuit breakers¹⁾

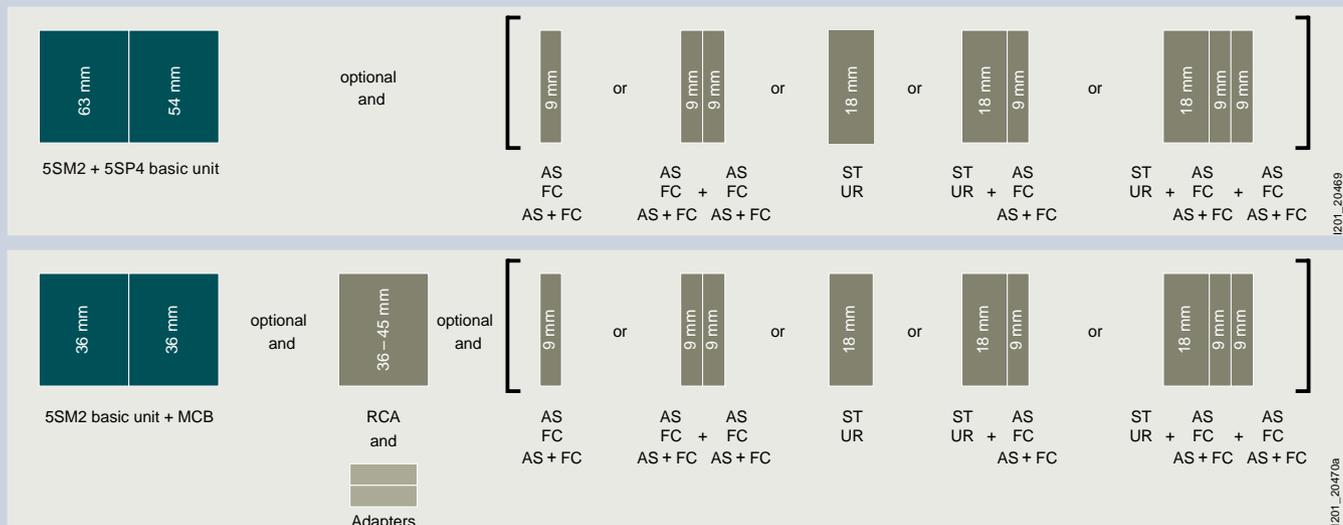
Rated voltage U_n	230 V AC		
Version	Instantaneous	Super resistant [K]	Selective [S]
Mounting width	2 MW	2 MW	2 MW



$I_{\Delta n}$	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	–
100 mA	80 ... 100 A	–	–	–
	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	–	–

¹⁾ Not suitable for use with 5SY5 and type A + type F not suitable for use with 5SY8

Mounting concept



MCB Miniature circuit breaker [See page 3/1](#)
 AS Auxiliary switches [See page 4/64](#)
 FC Fault signal contacts [See page 4/66](#)

AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)
 ST Shunt trips [See page 4/70](#)

UR Undervoltage releases [See page 4/71](#)
 RCA Remote control auxiliaries [See page 4/72](#)

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)			Undervoltage releases (UR)		
		Article No.			Article No.
1 NO + 1 NC	Standard	5ST3010	With integrated auxiliary switch	230 V AC	5ST3040
	For low power	5ST3013		110 V DC	5ST3041
	For low power (with diode)	5ST3013-0XX01		24 V DC	5ST3042
2 NO	Standard	5ST3011	Without integrated auxiliary switch	230 V AC	5ST3043
	For low power	5ST3014		110 V DC	5ST3044
2 NC	Standard	5ST3012		24 V DC	5ST3045
	For low power	5ST3015			
1 CO	Standard	5ST3016			
Fault signal contacts (FC)			Remote control auxiliaries (RCA)		
		Article No.			Article No.
1 NO + 1 NC		5ST3020	Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
		5ST3021		177 ... 270 V AC	5ST3056
		5ST3022	Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
2 NO		5ST3021		177 ... 270 V AC	5ST3058
		5ST3022	Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
2 NC		5ST3022	Communication-capable	100 ... 240 V AC	5ST3072-0MC
		5ST3022	Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
		5ST3022			
Auxiliary switches and fault signal contacts (AS+FC)			Adapters for remote control auxiliaries (RCA)		
		Article No.			Article No.
1 CO (AS) + 1 CO (FC)		5ST3062	5SM2 with 5SY (2P)		5ST3820-3 + 5ST3820-1
5ST3 COM (AS+FC)		5ST3062-0MC	5SM2 with 5SL (2P)		5ST3820-3 + 5ST3820-6
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			

5SM2 RC units

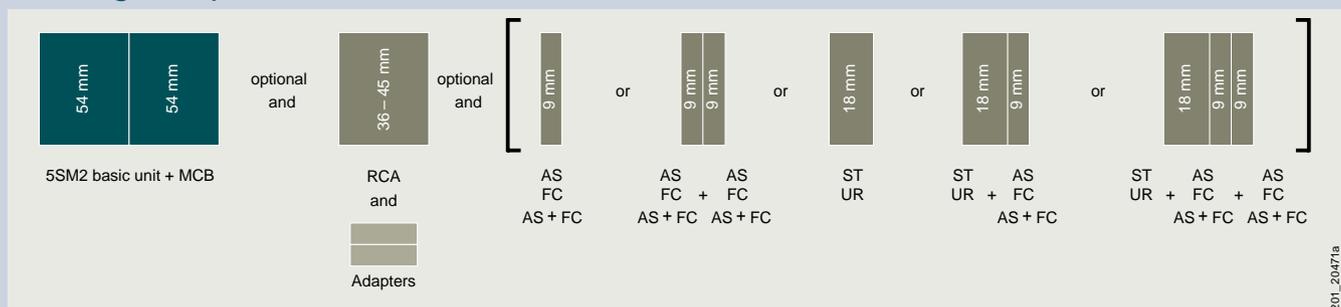
Type A and AC, 3-pole

Rated voltage U_n Version Mounting width	For 5SY miniature circuit breakers ¹⁾			For 5SL4 miniature circuit breakers	
	Instantaneous	Super resistant [K]	Selective [S]	Instantaneous	Selective [S]
400 V AC					
3 MW					

$I_{\Delta n}$	I_n	For 5SY miniature circuit breakers ¹⁾		For 5SL4 miniature circuit breakers		
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	–	–	–	–
	0.3 ... 40 A	5SM2632-6	–	–	5SM2633-6	–
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 breaker [See page 3/1](#)
AS Auxiliary switches [See page 4/64](#)
FC Fault signal contacts [See page 4/66](#)
AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)

ST Shunt trips [See page 4/70](#)
UR Undervoltage releases [See page 4/71](#)
RCA Remote control auxiliaries [See page 4/72](#)

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
5SM2 with 5SY (2P)		5ST3820-3 + 5ST3820-1
5SM2 with 5SL (2P)		5ST3820-3 + 5ST3820-6

5SM2 RC units

Type A and AC, 4-pole

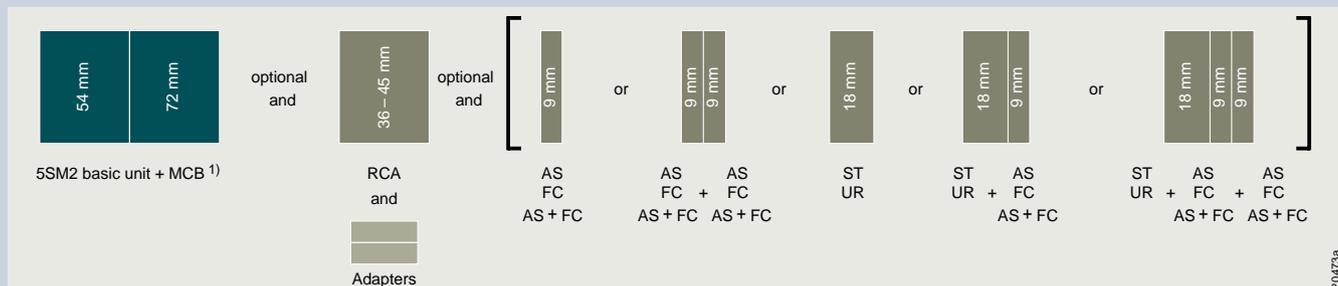
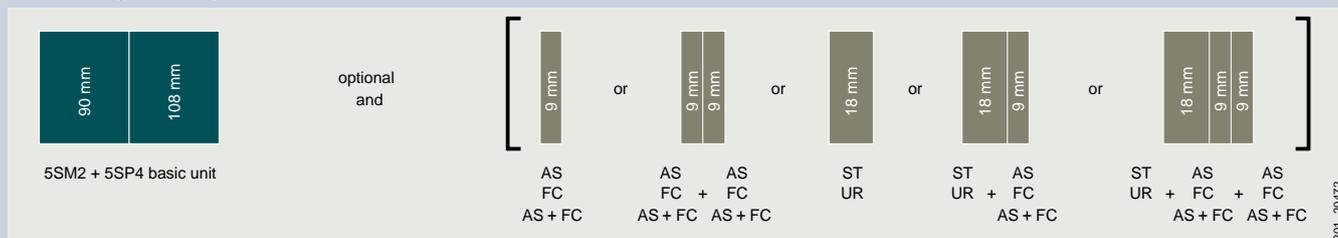
Rated voltage U_n	For 5SY miniature circuit breakers ¹⁾			
	Version	Super resistant [K]	Selective [S]	SIGRES, instantaneous
400 V AC	Instantaneous	3 MW	3 MW	3 MW
Mounting width	3 MW	3 MW	3 MW	3 MW



$I_{\Delta n}$	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	–	–	–
	80 ... 100 A	–	–	–	–
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	–
	80 ... 100 A	–	–	–	–
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	–	–	–
	80 ... 100 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 breaker [See page 3/1](#)
- AS Auxiliary switches [See page 4/64](#)
- FC Fault signal contacts [See page 4/66](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)
- ST Shunt trips [See page 4/70](#)
- UR Undervoltage releases [See page 4/71](#)
- RCA Remote control auxiliaries [See page 4/72](#)

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	–
–	–	–	–
–	–	–	–

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
5SM2 with 5SY (2P)		5ST3820-3 + 5ST3820-1
5SM2 with 5SL (2P)		5ST3820-3 + 5ST3820-6

5SU1 RCBOs

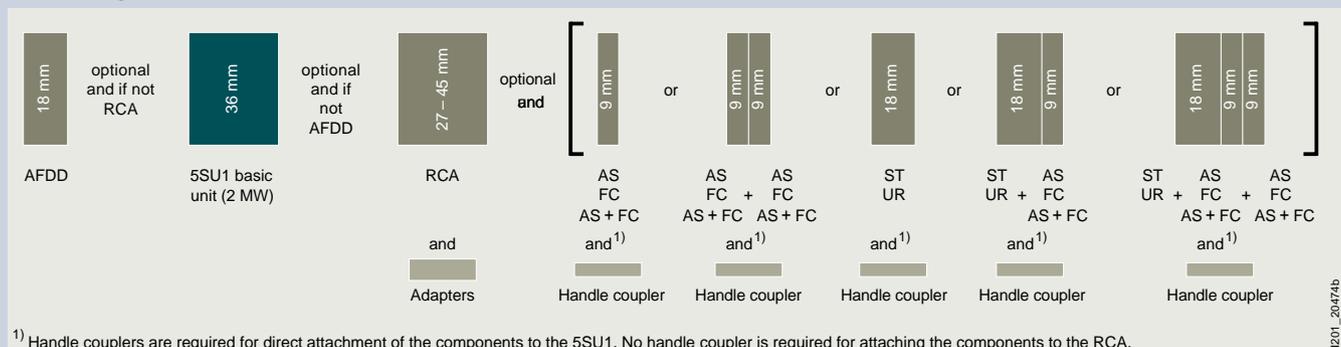
Type A, 1P+N

	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



$I_{\Delta n}$	I_n	Bulk packaging (36 units)	Characteristic C		Characteristic B		
			C	C	B	C	
Type A							
10 mA	6 A	–	–	–	–	–	
	10 A	–	–	–	–	–	
	13 A	–	–	–	–	–	
	16 A	–	–	–	–	–	
30 mA	6 A	– ■	5SU1353-7KK06	5SU1353-7KL06	5SU1356-6KK06 5SU1356-6GV06	5SU1356-7KK06 5SU1356-7GV06	
	8 A	–	5SU1353-7KK08	–	–	5SU1356-7KK08	
	10 A	– ■	5SU1353-7KK10	5SU1353-7KL10	5SU1356-6KK10 5SU1356-6GV10	5SU1356-7KK10 5SU1356-7GV10	
	13 A	–	5SU1353-7KK13	–	5SU1356-6KK13	5SU1356-7KK13	
	16 A	– ■	5SU1353-7KK16	5SU1353-7KL16	5SU1356-6KK16 5SU1356-6GV16	5SU1356-7KK16 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



AFDD	Arc fault detection unit	See page 4/56
AS	Auxiliary switches	See page 4/64
FC	Fault signal contacts	See page 4/66
AS+FC	Auxiliary switches and fault signal contacts	See page 4/67

ST	Shunt trips	See page 4/70
UR	Undervoltage releases	See page 4/71
RCA	Remote control auxiliaries	See page 4/72

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
	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
Power	177 ... 270 V AC	5ST3056
	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
Power with ARD	177 ... 270 V AC	5ST3058
	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
Power with extended function	170 ... 277 V AC, 77 ... 286 V DC	5ST3071
Communication-capable	100 ... 240 V AC	5ST3072-0MC
	100 ... 240 V AC	5ST3073-0MC
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
Adapters for remote control auxiliaries (RCA)		Article No.
2 MW		5ST3820-5

5SU1 RCBOs

Type F, 1P+N

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

Super resistant [K]

230 V AC

2 MW

10 kA

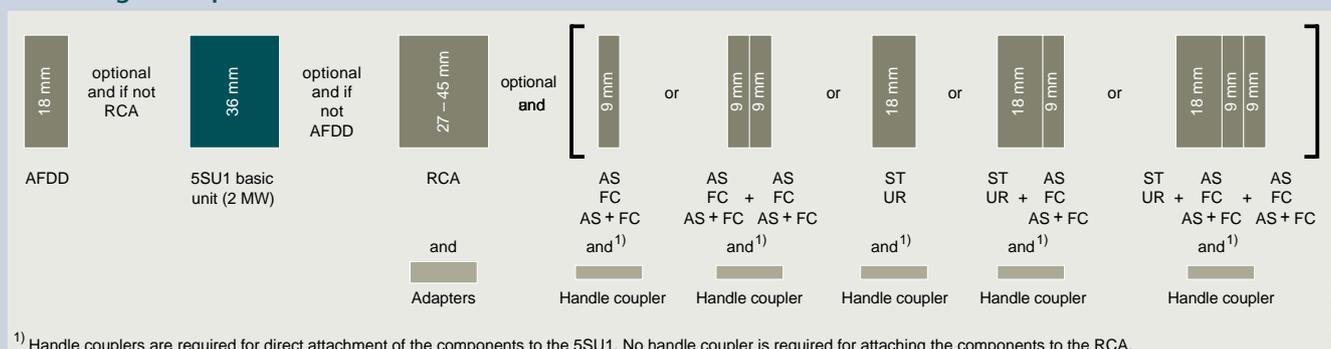
Right



4

$I_{\Delta n}$	I_n	Characteristic	
		B	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



AFDD Arc fault detection unit

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ST Shunt trips

[See page 4/70](#)

AS Auxiliary switches

[See page 4/64](#)

UR Undervoltage releases

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FC Fault signal contacts

[See page 4/66](#)

RCA Remote control auxiliaries

[See page 4/72](#)AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)

Accessories

Auxiliary switches (AS)		Article No.	Undervoltage releases (UR)		Article No.
1 NO + 1 NC	Standard	5ST3010	With integrated	230 V AC	5ST3040
	For low power	5ST3013	auxiliary switch	110 V DC	5ST3041
	For low power (with diode)	5ST3013-0XX01		24 V DC	5ST3042
2 NO	Standard	5ST3011	Without integrated	230 V AC	5ST3043
	For low power	5ST3014	auxiliary switch	110 V DC	5ST3044
2 NC	Standard	5ST3012		24 V DC	5ST3045
	For low power	5ST3015			
1 CO	Standard	5ST3016			
Fault signal contacts (FC)		Article No.	Handle couplers for AS, FC, AS+FC, ST and UR		Article No.
1 NO + 1 NC		5ST3020	1 set = 5 units		5ST3805-1
2 NO		5ST3021	Remote control auxiliaries (RCA)		Article No.
2 NC		5ST3022	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
			Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
			Adapters for remote control auxiliaries (RCA)		Article No.
			2 MW		5ST3820-5

5SU1 RCBOs

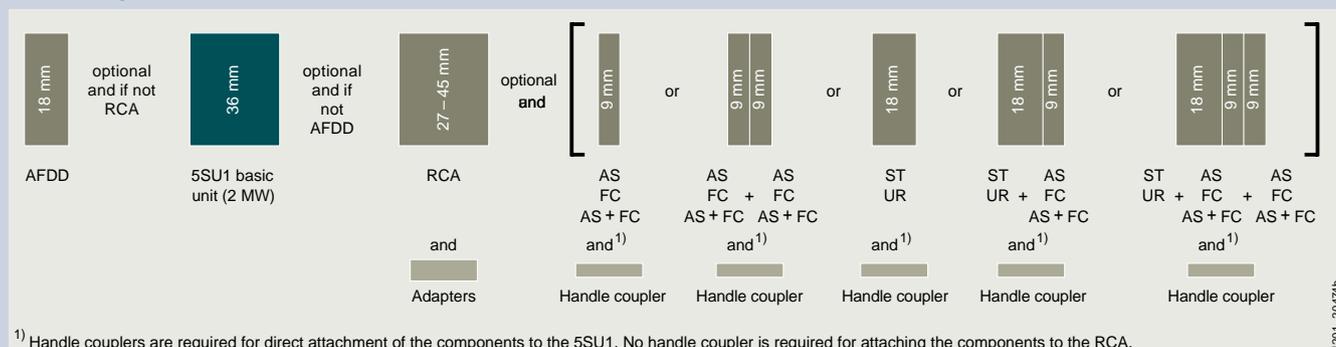
Type AC, 1P+N

	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		Characteristic B		
			C	C	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



AFDD Arc fault detection unit
AS Auxiliary switches
FC Fault signal contacts
AS+FC Auxiliary switches and fault signal contacts

See page 4/56
See page 4/64
See page 4/66
See page 4/67

ST Shunt trips
UR Undervoltage releases
RCA Remote control auxiliaries

See page 4/70
See page 4/71
See page 4/72

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.	Undervoltage releases (UR)		Article No.
1 NO + 1 NC	Standard	5ST3010	With integrated	230 V AC	5ST3040
	For low power	5ST3013	auxiliary switch	110 V DC	5ST3041
	For low power (with diode)	5ST3013-0XX01		24 V DC	5ST3042
2 NO	Standard	5ST3011	Without integrated	230 V AC	5ST3043
	For low power	5ST3014	auxiliary switch	110 V DC	5ST3044
2 NC	Standard	5ST3012		24 V DC	5ST3045
	For low power	5ST3015			
1 CO	Standard	5ST3016	Handle couplers for AS, FC, AS+FC, ST and UR		Article No.
Fault signal contacts (FC)			1 set = 5 units		5ST3805-1
1 NO + 1 NC		5ST3020	Remote control auxiliaries (RCA)		Article No.
2 NO		5ST3021	Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
2 NC		5ST3022		177 ... 270 V AC	5ST3054
Auxiliary switches and fault signal contacts (AS+FC)			Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
1 CO (AS) + 1 CO (FC)		5ST3062		177 ... 270 V AC	5ST3056
5ST3 COM (AS+FC)		5ST3062-0MC	Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
Shunt trips (ST)				177 ... 270 V AC	5ST3058
110 ... 415 V AC, 110 ... 220 V DC		5ST3030	Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
24 ... 48 V AC/DC		5ST3031		170 ... 277 V AC, 77 ... 286 V DC	5ST3071
12 V DC		5ST3031-0XX01	Communication-capable	100 ... 240 V AC	5ST3072-0MC
Arc fault detection units (AFDD)			Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
For 5SU1 basic units	I_n up to 16 A	5SM6021-2	Adapters for remote control auxiliaries (RCA)		Article No.
	I_n up to 40 A	5SM6024-2	2 MW		5ST3820-5

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

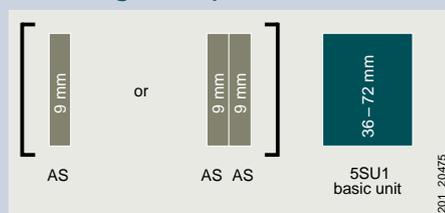


10 kA



$I_{\Delta n}$	I_n	Characteristic		Characteristic	
		B	C	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 4/64](#)

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

4

Accessories

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

5SU1 RCBOs

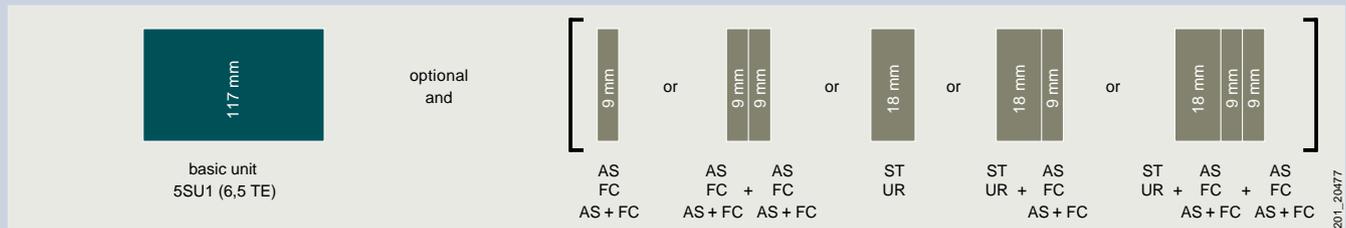
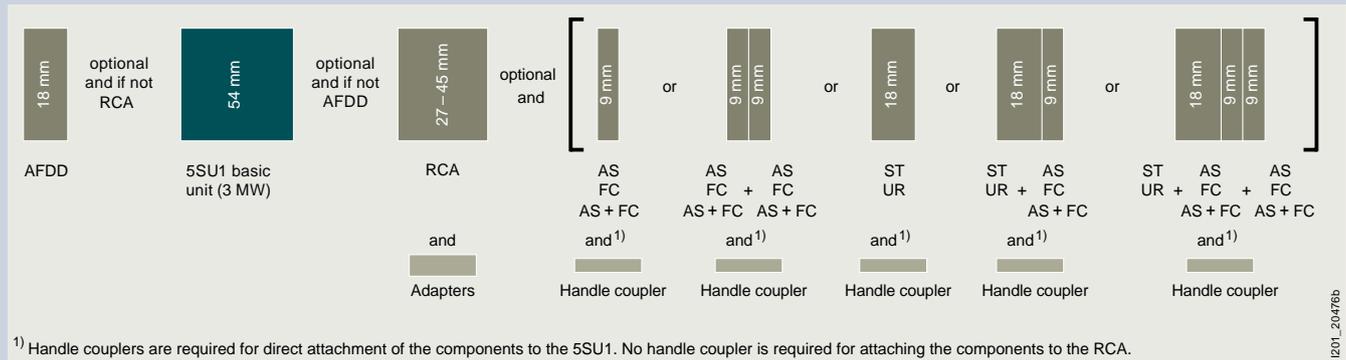
Type A and AC, 2-pole

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



$I_{\Delta n}$	I_n	Characteristic		Characteristic
		B	C	B
Type A				
30 mA	6 A	5SU1324-6KX06	5SU1324-7KX06	5SU1324-6FA06
	10 A	5SU1324-6KX10	5SU1324-7KX10	5SU1324-6FA10
	13 A	5SU1324-6KX13	5SU1324-7KX13	5SU1324-6FA13
	16 A	5SU1324-6KX16	5SU1324-7KX16	5SU1324-6FA16
	20 A	5SU1324-6KX20	5SU1324-7KX20	5SU1324-6FA20
	25 A	5SU1324-6KX25	5SU1324-7KX25	5SU1324-6FA25
	32 A	5SU1324-6KX32	5SU1324-7KX32	5SU1324-6FA32
	40 A	5SU1324-6KX40	5SU1324-7KX40	5SU1324-6FA40
	125 A	–	–	–
	300 mA	125 A	–	–
Type AC				
30 mA	125 A	–	–	–
300 mA	125 A	–	–	–

Mounting concept



- AFDD Arc fault detection units [See page 4/56](#)
- AS Auxiliary switches [See page 4/64](#)
- FC Fault signal contacts [See page 4/66](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)
- ST Shunt trips [See page 4/70](#)
- UR Undervoltage releases [See page 4/71](#)
- RCA Remote control auxiliaries [See page 4/72](#)

			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
	100 ... 240 V AC	5ST3073-0MC
Communication-capable with RCD/IR test		
Adapters for remote control auxiliaries (RCA)		Article No.
2 MW		5ST3820-5

5SU1 RCBOs

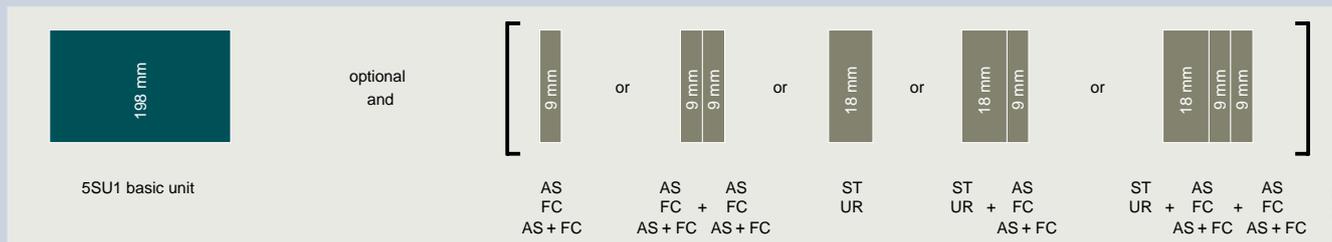
Type A and AC, 4-pole

	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
FC Fault signal contacts

[See page 4/64](#)
[See page 4/66](#)
[See page 4/67](#)

AS+FC Auxiliary switches and fault signal contacts

ST Shunt trips
UR Undervoltage releases

[See page 4/70](#)
[See page 4/71](#)

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		
		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.	Auxiliary switches and fault signal contacts (AS+FC)		Article No.
1 NO + 1 NC	Standard	5ST3010	1 CO (AS) + 1 CO (FC)		5ST3062
	For low power	5ST3013	5ST3 COM (AS+FC)		5ST3062-0MC
	For low power (with diode)	5ST3013-0XX01			
2 NO	Standard	5ST3011	Shunt trips (ST)		Article No.
	For low power	5ST3014	110 ... 415 V AC, 110 ... 220 V DC		5ST3030
2 NC	Standard	5ST3012	24 ... 48 V AC/DC		5ST3031
	For low power	5ST3015	12 V DC		5ST3031-0XX01
1 CO	Standard	5ST3016	Undervoltage releases (UR)		Article No.
Fault signal contacts (FC)			With integrated auxiliary switch	230 V AC	5ST3040
1 NO + 1 NC		5ST3020		110 V DC	5ST3041
2 NO		5ST3021		24 V DC	5ST3042
2 NC		5ST3022	Without integrated auxiliary switch	230 V AC	5ST3043
				110 V DC	5ST3044
				24 V DC	5ST3045

5SV1 RCBOs



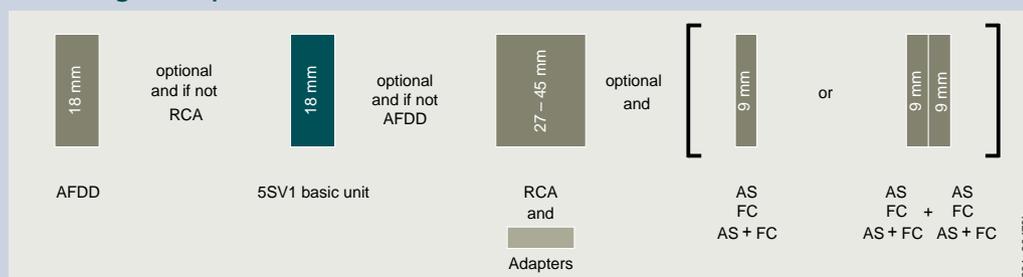
Type A, 1P+N

	Instantaneous	Short-time delayed [G], Super resistant [K]
Rated voltage U_n	230 V AC	230 V AC
Mounting width	1 MW	1 MW
Short-circuit breaking capacity	4.5 kA	6 kA
N connection	Right	Right



$I_{\Delta n}$	I_n	Bulk packaging (12 units)	Characteristic		Characteristic		Characteristic	
			B	C	B	C	B	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 4/64](#)
 FC Fault signal contacts [See page 4/66](#)

AS+FC Auxiliary switches and fault signal contacts
 RCA Remote control auxiliaries

[See page 4/67](#)
[See page 4/72](#)

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			Characteristic	
			C	B	C	B	C
Type F							
30 mA	6 A	–	–	–	–	5SV1316-3KK06	5SV1316-4KK06
	10 A	–	–	–	–	5SV1316-3KK10	5SV1316-4KK10
	13 A	–	–	–	–	5SV1316-3KK13	5SV1316-4KK13
	16 A	–	–	–	–	5SV1316-3KK16	5SV1316-4KK16
Type AC							
30 mA	2 A	–	5SV1313-1KK02	–	5SV1316-1KK02	–	–
	4 A	–	5SV1313-1KK04	–	5SV1316-1KK04	–	–
	6 A	–	5SV1313-1KK06	5SV1316-0KK06	5SV1316-1KK06	–	–
	10 A	–	5SV1313-1KK10	5SV1316-0KK10	5SV1316-1KK10	–	–
		■	5SV1313-1GV10	–	5SV1316-1GV10	–	–
	13 A	–	5SV1313-1KK13	5SV1316-0KK13	5SV1316-1KK13	–	–
	16 A	–	5SV1313-1KK16	5SV1316-0KK16	5SV1316-1KK16	–	–
		■	5SV1313-1GV16	–	5SV1316-1GV16	–	–
300 mA	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	–	–

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

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
Communication-capable with RCD/IR test	100 ... 240 V AC	5ST3073-0MC
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

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



Type F ¹⁾

	SIGRES, super resistant [K]
Rated voltage U_n	230 V AC
Mounting width	2 MW
Short-circuit breaking capacity	75 kA
Magnetic tripping operation (instantaneous tripping)	3 ... $3.6 \times I_n$
Thermal tripping (delayed tripping)	1.05 ... $1.13 \times I_n$
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)

Note:

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

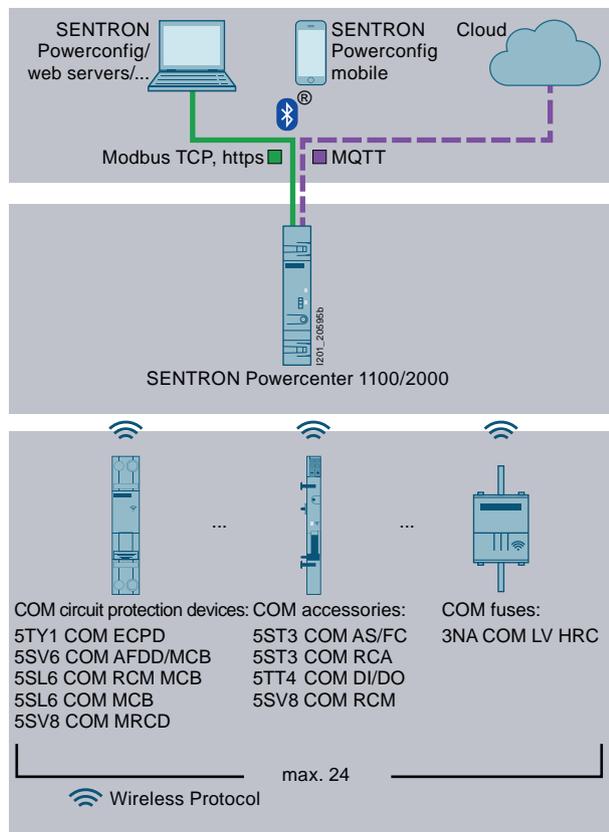
Accessories

Data transceiver (essential accessory)	Article No.
SENTRON Powercenter 1100	7KN1111-0MC00
SENTRON Powercenter 2000	7KN1211-0MC00

See suitable busbars, from page 4/78 onwards



SENTRON Powercenter 1100/2000 data transceiver



- Wireless radio transmission of measured values to the SENTRON Powercenter 1000/1100/2000 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100/2000 data transceiver



SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
SENTRON Powercenter 1100	7KN1111-0MC00
SENTRON Powercenter 2000	7KN1210-0MC00

See page 10/28

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, 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
Temperature	°C
Average temperature	°C
Current	A
Average current	A
Maximum current	A
Voltage	V
Line frequency	Hz
Active power	W
Apparent power	VA
Reactive power	Var
Power factor	
Active energy imported	Wh
Active energy exported	Wh
Reactive energy imported	Varh
Reactive energy exported	Varh
Residual current to 1 kHz	mA
Residual current base frequency	mA

5SM6 arc fault detection units

For combination with an MCB or RCBO

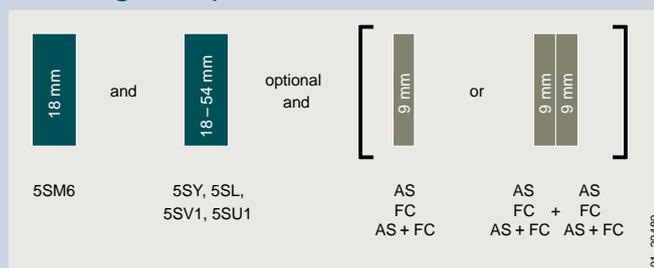


For combination with basic units			Rated current I_n	
Width of basic unit	Miniature circuit breakers	RCBO		
1 MW	5SL60 (no KL types)	5SV1	Up to 16 A	5SM6011-2
			Up to 40 A	5SM6014-2
2 MW	5SY ¹⁾ , 5SL4 (only 1+N devices, not compact)	5SU1 (2 MW, 3 MW)	Up to 16 A	5SM6021-2
			Up to 40 A	5SM6024-2

¹⁾ Not suitable for use with 5SY5 or 5SY8

4

Mounting concept



AS Auxiliary switches

[See page 4/64](#)

FC Fault signal contacts

[See page 4/66](#)

AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)

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

1201_20480

Accessories

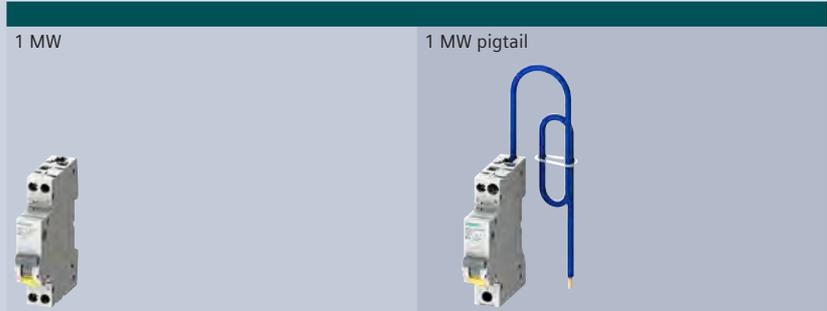
Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020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

See suitable busbars, from page 4/78 onwards

See suitable terminals and end caps, from page 4/82 onwards

5SV6 AFDD/MCB

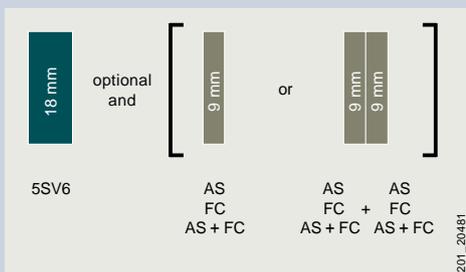
Mounting width



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

4

Mounting concept



- AS Auxiliary switches [See page 4/64](#)
- FC Fault signal contacts [See page 4/66](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)

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 4/78 onwards
See suitable terminals and end caps, from page 4/82 onwards

5SV6 COM AFDD/MCB with measuring and communication function

Mounting width 1 MW

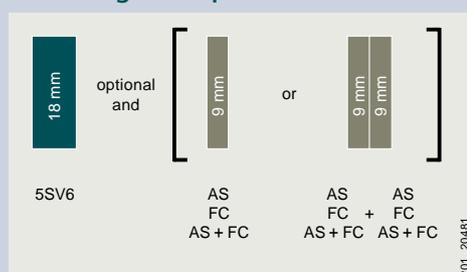


Rated current I_n	Characteristic	
	B	C
6 A	5SV6016-6MC06	5SV6016-7MC06
10 A	5SV6016-6MC10	5SV6016-7MC10
13 A	5SV6016-6MC13	5SV6016-7MC13
16 A	5SV6016-6MC16	5SV6016-7MC16
20 A	5SV6016-6MC20	5SV6016-7MC20
25 A	5SV6016-6MC25	5SV6016-7MC25
32 A	5SV6016-6MC32	5SV6016-7MC32

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 4/64](#)
 FC Fault signal contacts [See page 4/66](#)
 AS+FC Auxiliary switches and fault signal contacts [See page 4/67](#)

Accessories

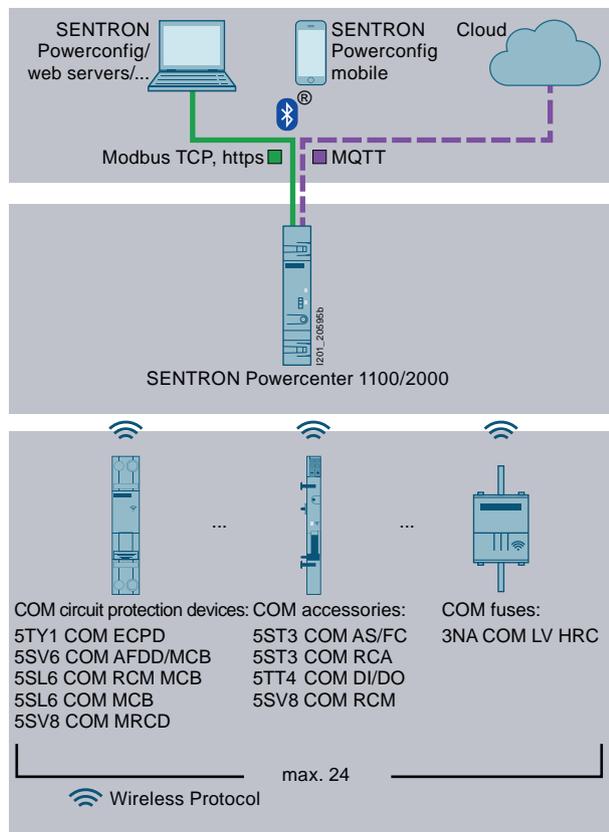
Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020
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
SENTRON Powercenter 1100		7KN1111-0MC00

See suitable busbars, from page 4/78 onwards

See suitable terminals and end caps, from page 4/82 onwards



SENTRON Powercenter 1100/2000 data transceiver



- Wireless radio transmission of measured values to the SENTRON Powercenter 1000/1100/2000 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100/2000 data transceiver



SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
SENTRON Powercenter 1100	7KN1111-0MC00
SENTRON Powercenter 2000	7KN1210-0MC00

See page 10/28

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
Temperature	°C
Average temperature	°C
Current	A
Average current	A
Maximum current	A
Voltage	V
Line frequency	Hz
Active power	W
Apparent power	VA
Reactive power	Var
Power factor	
Active energy imported	Wh
Active energy exported	Wh
Reactive energy imported	Varh
Reactive energy exported	Varh

Overview of the modular system

Residual current protective devices



				5SV (16 ... 80 A)	5SM2 + MCB	5SM2 + 5SP4	5SU1	5SU1 (125 A)	5SU1... FP/FR	5SV1
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	■	■	■	■	■	–	–

■ Suitable for all versions

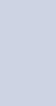
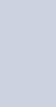
□ Suitable for some versions

From page 4/14

Overview of the modular system

Residual current protective devices



				5SV (16 ... 80 A)	5SM2 + MCB	5SM2 + 5SP4	5SU1	5SU1 (125 A)	5SU1... FP/FR	5SV1
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-OMC	■	■	–	■	–	–	■
		100 ... 240 V AC	5ST3073-OMC	■	■	–	■	–	–	■
Standard busbars				Article No.						
	Cannot be cut		5ST36..	■	■	■	■	■	■	■
	Can be cut		5ST37..	■	■	■	■	■	■	■
Compact busbars				Article No.						
	Cannot be cut		5ST36..	■	–	–	–	–	–	■
	Can be cut		5ST37..	■	–	–	–	–	–	■

■ Suitable for all versions

□ Suitable for some versions

From page 4/14

Arc fault detection devices

Circuit breakers for equipment

Miniature circuit breakers

Switching devices

5TY1 COM	5SM6	5SV6/ 5SV6 COM	5SL3	5SL6	5SL4	5SJ6...-KS	5SL30	5SL58 new	5SL60/ 5SL6 COM	5SY	5SP4/ 5SP5	5SJ4..HG..	5SY17	5TE8	5TL
-	-	-	-	■	■	-	-	-	■	■	-	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	-	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	■	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	■	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	■	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	■	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	■	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	■	-	■	-	■
-	-	-	-	■	■	-	-	-	■	■	■	-	■	-	■
■	□	■	■	■	■	■	■	■	■	■	■	■	■	□	■
■	□	■	■	■	■	■	■	■	■	■	■	■	■	□	■
■	■	■	□	□	□	-	■	■	■	-	-	-	■	-	-
■	■	■	□	□	□	-	■	■	■	-	-	-	-	-	-
From page 4/14	From page 4/56		From page 3/12										From page 3/48	From page 5/6	

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

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-OFP
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/–
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 mm ² (AWG 22 ... 14)			0.75 ... 2.5 mm ²		
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/s ²			–		
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²			–		

¹⁾ No approvals

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

Standards		5ST3020, 5ST3021, 5ST3022	5ST3020-2, 5ST3021-2, 5ST3022-2
Standards			
Standards	IEC/EN UL, CSA	IEC/EN 62019, IEC/EN 60947-5-1 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 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 vibration at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²	



Auxiliary switches and fault signal contacts (AS+FC)

- Combines the function of both switches in a width of only 0.5 MW (9 mm)
- Signals the contact position of the mounted 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

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Further technical specifications

5ST3062

Standards		
Standards	IEC/EN UL, CSA	IEC/EN 62019, IEC/EN 60947-5-1 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

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)

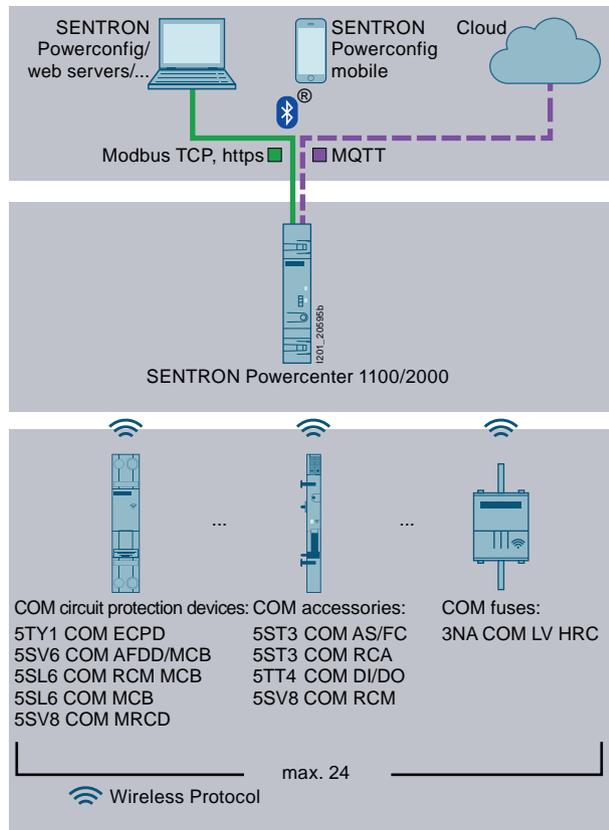
Further technical specifications

5ST3062-0MC

Standards		
Standards	IEC/EN; UL, CSA RED	60669-2-5 2014/53/EU
Power supply		
Power supply		24 V DC ±20%, SELV
Conductor cross-sections		0.2 ... 1.5 mm ²
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/s ²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²
Service life/endurance		10000
Communication		
Interface	SETRON 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



SENTRON Powercenter 1100/2000 data transceiver



- Wireless radio transmission of measured values to the SENTRON Powercenter 1000/1100/2000 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100/2000 data transceiver



SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
SENTRON Powercenter 1100	7KN1111-0MC00
SENTRON Powercenter 2000	7KN1210-0MC00

See page 10/28

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)



Electrical accessories



Shunt trips (ST)

- For remote-controlled tripping of the mounted device

For combining with basic units			Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	RCCBs	RCBOs			
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 mm ² (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/s ²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6		50 m/s ²



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			Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	RCCBs	RCBOs			
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 mm ² (AWG 22 ... 14)	
Terminals	Max. tightening torque	0.8 Nm (6.8 lb-in)
Ambient conditions		
Permissible ambient temperature	−25 ... +55 °C	
Permissible storage temperature	−40 ... +75 °C	
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position	Any	
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	150 m/s ²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²

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	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	
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 mm ² (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



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

- 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

4

Further technical specifications

5ST3072-0MC, 5ST3073-0MC

Standards		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 mm ²	
Type of connection		Screw terminals	
Ambient conditions			
Permissible storage temperature		-40 ... +70 °C	
Communication function			
Interface		SENTRON Powercenter 1000	
Metering values		Wireless 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



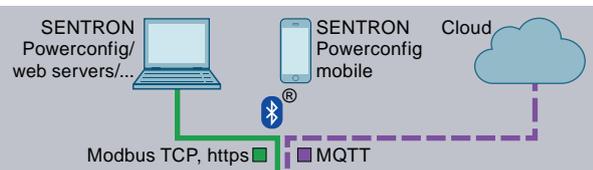
Basic units	Mounting width							Article No.
	1 MW	2 MW	3 MW	4 MW	2-pole	3-pole	4-pole	
5SU1	-	■	■	-	-	-	-	5ST3820-5
5SV1	■	-	-	-	-	-	-	5ST3820-6
5SV (16 ... 80 A)	-	■	-	■	-	-	-	5ST3820-6
5SM2 with 5SY	-	-	-	-	■	-	-	5ST3820-3 + 5ST3820-1
	-	-	-	-	-	■	■	5ST3820-3 + 5ST3820-2
5SM2 with 5SL	-	-	-	-	■	-	-	5ST3820-3 + 5ST3820-6
	-	-	-	-	-	■	■	5ST3820-3 + 5ST3820-7

Electrical accessories

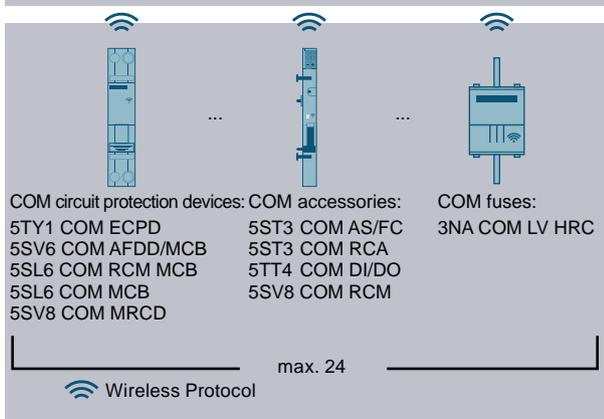
5ST3 COM remote control auxiliaries (RCA) with communication function



SENTRON Powercenter 1100/2000 data transceiver



SENTRON Powercenter 1100/2000



- Wireless radio transmission of measured values to the SENTRON Powercenter 1000/1100/2000 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the SENTRON Powercenter 1000/1100/2000 data transceiver



SENTRON Powercenter	Article No.
SENTRON Powercenter 1000	7KN1110-0MC00
SENTRON Powercenter 1100	7KN1111-0MC00
SENTRON Powercenter 2000	7KN1210-0MC00

See page 10/28

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

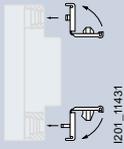
Installation Manual – Circuit protection devices with communication and measuring function ([109791805](#))



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



Mechanical accessories

Handle couplers for additional components	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> For 5SV (16 ... 80 A) RCCBs, 5SV1 RCBOs, 5SV6 AFDD/MCB, 5TY1 COM electronic circuit protection devices (ECPD)
	Comprising Article No.
	5ST3806 handle locking device and 5ST3802 padlock 5ST3807
Padlock	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> 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

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

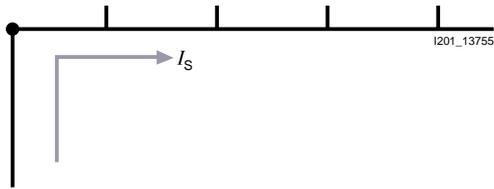
Standard busbars

General information



Infeed

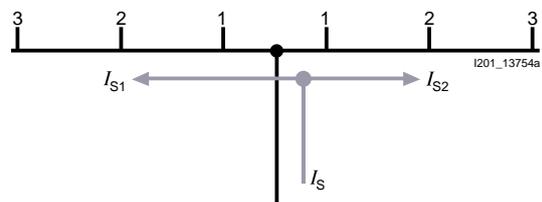
At the start or end of the busbar



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



Fixed lengths, cannot be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section 10 mm ²	16 mm ²
2-phase/1-phase + N <p>Ø 10 mm² Ø 16 mm²</p>	For 6 × 2 MW devices (2P)	12 MW	210 mm	Article No. 5ST3608	Article No. 5ST3638
3-phase, for MCBs with RCCB <p>Ø 10 mm²</p>	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	Article No. 5ST3624-1	Article No. -
<p>Ø 10 mm² Ø 16 mm²</p>	For 8 MCBs 1P with 1 RCCB 3P+N, N right	12 MW	210 mm	Article No. 5ST3624	Article No. 5ST3654
<p>Ø 10 mm² Ø 16 mm²</p>	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	Article No. 5ST3624-4	Article No. -
<p>Ø 10 mm² Ø 16 mm²</p>	For 6 MCBs 1P with 1 RCCB 3P+N, N left	9 MW	157.5 mm	Article No. 5ST3614	Article No. 5ST3644
<p>Ø 10 mm² Ø 16 mm²</p>	For 8 MCBs 1P with 1 RCCB 3P+N, N left	11 MW	192 mm	Article No. 5ST3667	Article No. 5ST3668
4-phase/3-phase + N <p>Ø 10 mm² Ø 16 mm²</p>	For 6 × 2 MW devices (1P+N)	12 MW	215 mm	Article No. 5ST3623	Article No. 5ST3653
4-phase/3-phase + N, for MCBs with RCCB <p>Ø 10 mm² Ø 16 mm²</p>	For 1 RCCB 3P+N and 5 MCBs 1P+N (2 MW)	14 MW	248 mm	Article No. 5ST3625-4	Article No. -

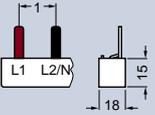
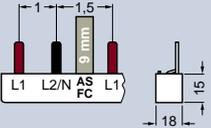
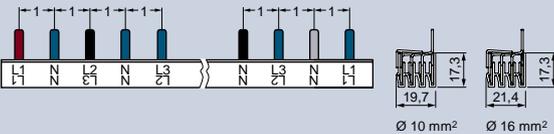
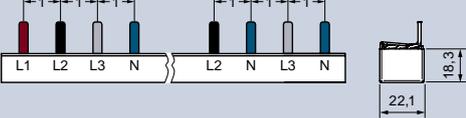
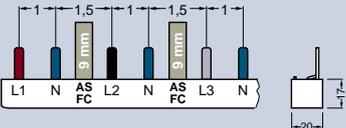
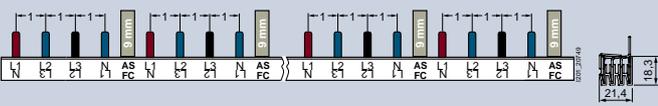
Accessories

Terminals for 5ST36 and 5ST37		Article No.
For conductors 6 ... 25 mm ²	Cable entry on the left	5ST3768-4
	Cable entry in the center	5ST3768-3
	Cable entry on the right	5ST3768-5
For conductors 6 ... 50 mm ²	Cable entry on the left	5ST3760-4
	Cable entry in the center	5ST3760-3
	Cable entry on the right	5ST3760-5

Terminals for infeed at side		Article No.
For conductors 6 ... 25 mm ²	Short	5ST3768
	Short, IP20	5ST3771-2
Touch protection		Article No.
For free connections, yellow (RAL 1004) 5 × 1 pin		5ST3655

Standard busbars

Can be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section	
					10 mm ²	16 mm ²
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
2-phase/1-phase + N, for MCBs with mounted AS or FC					Article No.	Article No.
	For 2 MW devices (2P/1P+N)	12 MW	214 mm	■	5ST3736	5ST3706
		56 MW	1016 mm	–	5ST3737	5ST3707
4-phase/3-phase + N, for MCBs with RCCB					Article No.	Article No.
	For RCCBs or MCBs 1P+N	56 MW	1000 mm	–	5ST3770-2	5ST3770-3
		Ø 10 mm ²	Ø 16 mm ²			
	For 6 MCBs 1P+N with 1 RCCB 3P+N, N right	16 MW	292 mm	■	5ST3770-4	5ST3770-5
4-phase/3-phase + N, for RCCB/MCBs with mounted AS or FC					Article No.	Article No.
	For MCBs 1P+N	56 MW	1016 mm	–	5ST3746-2	–
	For MCBs 3P+N	40 MW	1000 mm	–		5ST3725

Accessories

Terminals for infeed at side	Article No.
For conductors 6 ... 25 mm ²	Short 5ST3768
	Short, IP20 5ST3771-2
	Long 5ST3771-1
End caps	Article No.
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



For devices with add-on 5SM6 arc fault detection units and 5TY1 COM electronic circuit protection devices (ECPD)

Fixed lengths, cannot be cut

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Color	Conductor cross-section 10 mm ²
3-phase						Article No.
	For 5SM601. and 5TY1 COM	12 MW	210 mm	–	Gray	5ST3615-1

Accessories

Terminals for infeed at side	Article No.	Touch protection	Article No.
For conductors 6 ... 25 mm ²	Short Short, IP20 Long	For free connections, yellow (RAL 1004) 5 × 1 pin	5ST3768 5ST3771-2 5ST3771-1
			5ST3655

Standard busbars

For devices with add-on 5SM6 arc fault detection units and 5TY1 COM electronic circuit protection devices (ECPD)



Can be cut

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

Accessories

Terminals for infeed at side		Article No.
For conductors 6 ... 25 mm ²	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

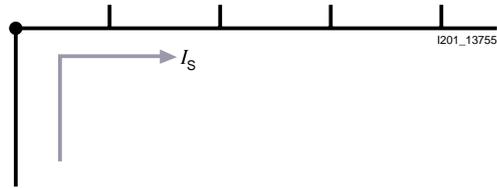
Compact busbars

General information



Infeed

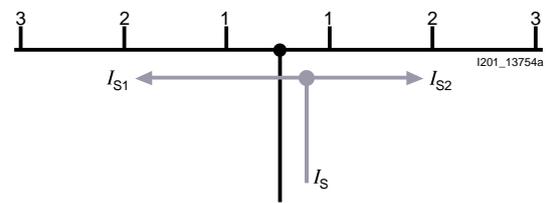
At the start or end of the busbar



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

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 mm ²	Article No.
	For 1 × RCCB 1P+N and 5 × compact devices equipped with 5SM6 arc fault detection unit	12 MW	216 mm	■		5ST3685-0
	For compact devices	6 MW 9 MW 12 MW	113 mm 166 mm 218 mm	■ ■ ■		5ST3674-6 5ST3674-7 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
	For compact devices	6 MW 9 MW 12 MW 14 MW	113 mm 166 mm 218 mm 254 mm	■ ■ ■ ■		5ST3673-6 5ST3673-7 5ST3673-0 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

Accessories

Terminals for infeed at side	Article No.	Touch protection	Article No.
For conductors 6 ... 25 mm ² Short, IP20	5ST3771-2	For free connections, yellow (RAL 1004)	5ST3655
		For pins L1, N	5ST3655-0HG
		For pins L2, L3	5ST3655-0HG



5ST37, can be cut



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section	
					10 mm ²	16 mm ²
2-phase/1-phase + N, for infeed via RCCB						
	For 1 × RCCB 1P+N and 10 × compact devices	12 MW	215 mm	■	Article No. 5ST3784-0	Article No. –
	For 1 × RCCB 1P+N (RCCB N left only) and 10 × compact devices	12 MW	215 mm	■	Article No. 5ST3784-OKL	Article No. –
2-phase/1-phase + N					Article No.	Article No.
	For compact devices	60 MW	1060 mm	–	Article No. 5ST3774-0	Article No. –
	For compact devices equipped with 5SM6 arc fault detection unit and 5TY1 COM electronic circuit protection devices (ECPD)	59 MW	1042 mm	–	Article No. 5ST3776-0	Article No. –
	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	–	Article No. 5ST3778-0	Article No. –
	For compact devices equipped with 5SM6 arc fault detection unit and auxiliary switch	58.5 MW	1036 mm	–	Article No. 5ST3780-0	Article No. –
	For 2 MW units (MCBs or RCBOs) with mounted 5SM6 arc fault detection unit and auxiliary switch	54 MW	956 mm	–	Article No. 5ST3786-0	Article No. –
	For RCCB 2P N-right and 5 AFDD (5SM601.) + compact device	12 MW	214 mm	■	Article No. –	Article No. 5ST3772

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 mm ²	Article No.
4-phase/3-phase + N, for infeed via RCCB						
	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 5 × compact devices	14 MW	253 mm	■	5ST3785-0	
	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	



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps included	Conductor cross-section 10 mm ²	Article No.
<p>4-phase/3-phase + N</p>	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

4

Accessories

Terminals for infeed at side		Article No.	Touch protection	Article No.
For conductors 6 ... 25 mm ²	Short, IP20	5ST3771-2	For free connections, yellow (RAL 1004)	For pins L1, N 5ST3655
End caps for 5ST3		Article No.		For pins L2, L3 5ST3655-0HG
For 2 and 4-phase compact busbars	Gray	5ST3788-0		