

SIEMENS

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Low-Voltage Power Distribution and Electrical Installation Technology

Miniature Circuit Breakers

Catalog
Extract
LV 10

Edition
10/2019

[siemens.com/lowvoltage](https://www.siemens.com/lowvoltage)

Making sure power makes its way

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

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

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

We are there when you need us

Your personal contact can be found at
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Catalog LV 10 · 10/2019

You will find the latest edition and all future editions in the Siemens Industry Online Support at
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Refer to the Industry Mall for current prices
www.siemens.com/industrymall

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

Technical data

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

All illustrations are not binding.

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Low-Voltage Power Distribution and Electrical Installation Technology

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A



Protecting electrical installations from damage

The number of electrical loads is constantly increasing, which places an ever greater load on the electrical installation.

In the event of an overload or short-circuit, miniature circuit breakers safely cut off the connected circuit and reliably protect electrical installations and equipment from damage.

Miniature circuit breakers from the SENTRON portfolio are also simple to mount and install. The devices have a uniform design and, with the appropriate accessories, can be expanded by many additional functions.

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

Miniature Circuit Breakers



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A multitude of additional information ...

Information + ordering

All the important things at a glance

Information to get you started

For information about miniature circuit breakers, please visit our website

www.siemens.com/mcb

www.siemens.com/protection-concept

Contact persons in your region

We are there when you need us

You can find your local contacts at

www.siemens.com/lowvoltage/contact

Your product in detail

The Siemens Industry Online Support portal provides comprehensive information

www.siemens.com/lowvoltage/product-support

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

The relevant tender specifications can be found at

www.siemens.com/lowvoltage/tenderspecifications

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

www.siemens.com/conversion-tool

Siemens YouTube channel

Our video range

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

Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Miniature circuit breakers sie.ag/2kTFX15

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.

www.siemens.com/product?Article_No.

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support portal provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Engineering data for CAD or CAE systems are available in the CAX Download Manager at

www.siemens.com/lowvoltage/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support at

www.siemens.com/lowvoltage/manuals

- Configuration manual Miniature circuit breakers (45302792)

The fast track to the experts

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

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

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/contact

You can find further information on services at

www.siemens.com/service-catalog

Training and tutorials

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- Protection concept (WT-LVBPC)

Technical overview of miniature circuit breakers



The fast way to get you to our online services

This page provides you with comprehensive information and links on miniature circuit breakers

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

Devices for all applications

3

Miniature circuit breakers for basic applications



Ideal for standard applications

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

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

Miniature circuit breakers for advanced applications



Ideal for industrial applications

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

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

Special features

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

Device protection switches for advanced applications



Ideal for devices in industry

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

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

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

System overview

Basic units and accessories

Miniature circuit breakers for basic applications



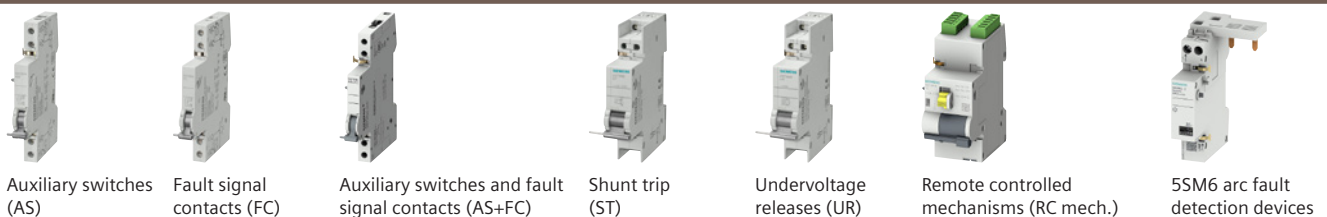
Miniature circuit breakers for advanced applications



Device protection switches for advanced applications



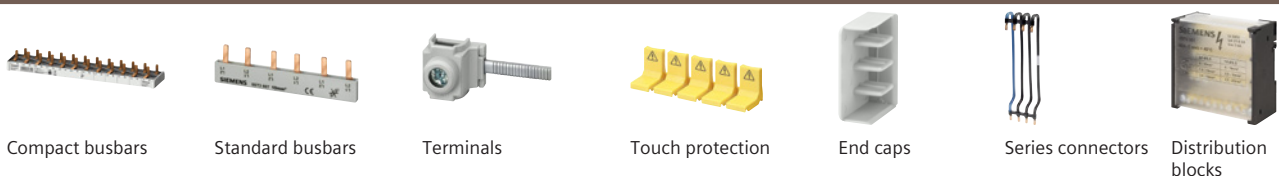
Electromechanical accessories



Mechanical accessories



Busbars and accessories



Miniature circuit breakers

For basic applications for buildings and infrastructure



5SL3



5SL6

Standards			IEC / EN 60898-1	IEC / EN 60898-1
Standards			IEC / EN 60898-1	IEC / EN 60898-1
Basic data				
Breaking capacity I_{cn} for AC (230/400 V) acc. to IEC/EN 60898-1 AC	kA		4.5	6
Rated current	A		0.3 ... 63	0.3 ... 63
Number of poles			1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N
Tripping characteristic			B C	B C
Approvals				
General product approvals			VDE, CEBC, TSE	VDE, CEBC, TSE
Marine classifications			–	–
Operational voltage				
Max. AC, acc. to EN 60898-1/-2, EN 60947-2	V		250/440	250/440
Max. DC per pole, acc. to EN 60898-1/-2, EN 60947-2	V		60	60
Max. AC, acc. to UL 1077, CSA C22.2 No.235	V		–	–
Rated voltage AC, acc. to UL 489	V		–	–
Rated impulse withstand voltage U_{imp}	kV		4	4
Rated frequency f_n	Hz		50/60	50/60
Connection				
Dual-chamber terminal			–	–
Conductor cross-section 1 wire	Solid/stranded	mm ²	0.75 ... 35	0.75 ... 35
	Finely stranded with end sleeve	mm ²	0.75 ... 25	0.75 ... 25
	Finely stranded without end sleeve	mm ²	1 ... 35	1 ... 35
Conductor cross-section 2 wires (same cross-section and same conductor type)	Solid/stranded	mm ²	0.75 ... 10	0.75 ... 10
	Finely stranded with end sleeve	mm ²	0.75 ... 4	0.75 ... 4
	Finely stranded without end sleeve	mm ²	1 ... 4	1 ... 4
Conductor cross-section 1-wire + busbar (pin thickness 1.5 mm)	Solid/stranded	mm ²	10 ... 25	10 ... 25
	Finely stranded with non-insulated end sleeve	mm ²	6 ... 25	6 ... 25
	Finely stranded with insulated end sleeve	mm ²	6 ... 16	6 ... 16
Ambient conditions				
Ambient temperature	°C		–25 ... +45 ¹⁾	–25 ... +45 ¹⁾
Storage temperature	°C		–40 ... +75 ³⁾	–40 ... +75 ³⁾
Shock acc. to IEC 60068-2-27 150 m/s ² at 11 ms half-sine			–	–
Resistance to vibrations acc. to IEC 60068-2-6 50 m/s ² at 25 ... 150 Hz and 60 m/s ² at 35 Hz (4 s)			–	–
Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering)			–	–
Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles)			–	–
Pollution degree for overvoltage category			2/III	2/III
More information				
Catalog LV 10			See page 3/12	See page 3/14

¹⁾ Periodically +55 °C, max. 95% humidity

²⁾ Max. 95% humidity

³⁾ 95% humidity up to 55 °C

**SSL4****5SJ6...-KS****SSL30****SSL60****5SP3**

IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	DIN VDE 0641-21
10	6	4.5	6	–
0.3 ... 63	10 ... 20	2 ... 40	2 ... 40	16 ... 100
1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 1P+N	1P+N	1P+N	1P 2P 3P 4P
B C D	B C	C	B C	E
VDE, CEBC, IMQ	VDE	VDE, IMQ, NF, CCC	VDE, IMQ, NF, CCC	VDE
–	–	–	DNV-GL	–
250/440	250/440	250	250	–
60	60	72	72	–
–	–	–	–	–
–	–	–	–	–
4	4	4	4	4
50/60	50/60	50/60	50/60	50/60
–	Plug-in terminal on outgoing side	–	–	–
0.75 ... 35	1.5 ... 4 (top) 0.75 ... 25 (bottom)	0.75 ... 16	0.75 ... 16	2.5 ... 50 (bottom)
0.75 ... 25	1.5 ... 2.5 (top) 0.75 ... 25 (bottom)	0.75 ... 10	0.75 ... 10	2.5 ... 50 (bottom)
1 ... 35	1.5 ... 4	–	–	2.5 ... 16 (top)
0.75 ... 10	–	–	–	–
0.75 ... 4	–	–	–	–
1 ... 4	–	–	–	–
10 ... 25	–	–	–	–
6 ... 25	–	–	–	–
6 ... 16	–	–	–	–
–25 ... +55 ²⁾	–25 ... +45 ¹⁾	–25 ... +45 ¹⁾	–25 ... +45 ¹⁾	–25 ... +55
–40 ... +75 ³⁾	–40 ... +75 ³⁾	–40 ... +75	–40 ... +75	–40 ... +70
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
–	–	–	–	–
2/III	2/III	2/III	2/III	3/IV
See page 3/16	See page 3/18	See page 3/20	See page 3/22	See page 3/24

Miniature circuit breakers

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



5SY6



5SY4

Standards

Standards

IEC/EN 60898-1
IEC/EN 60947-2
UL 1077IEC/EN 60898-1
IEC/EN 60947-2
UL 1077

Basic data

Breaking capacity I_{cn} for AC (230/400 V) acc. to IEC/EN 60898-1 AC	kA	6	10
Rated breaking capacity I_{cu} acc. to IEC/EN 60947-2 at U_e 230 V at U_e 400 V (1P, 1P+N) (2P, 3P, 4P, 3P+N)	I_n 0.3 ... 2 A I_n 3 ... 6 A I_n 8 ... 10 A I_n 13 ... 32 A I_n 40 A I_n 50 ... 63 A I_n 80 ... 125 A	kA 30 30 30 30 15 15 15 15 10 10 10 10 – –	35 35 35 35 20 20 20 20 15 15 15 15 10 10
Rated current	A	0.3 ... 63	0.3 ... 80
Number of poles		1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N
Tripping characteristic		B C	A B C D

Approvals

General product approvals

VDE, IMQ, CCC,
VDE, IMQ, CCC,


Marine classifications

DNV-GL, LR, BV, RINA, ABS

DNV-GL, LR, BV, RINA, ABS

Operational voltage

Max. AC	Acc. to EN 60898-1/-2, EN 60947-2	V	250/440	250/440
	Acc. to UL 1077, CSA C22.2 No.235	V	277/480	277/480
Max. DC per pole	Acc. to EN 60898-1/-2, EN 60947-2	V	72 ¹⁾	72 ¹⁾
Rated voltage AC	Acc. to UL 489	V	–	–
Rated impulse withstand voltage U_{imp}		kV	4	4
Rated frequency f_n		Hz	50/60	50/60

Connection

Dual-chamber terminal			■	■
Conductor cross-section	Solid/stranded	mm ²	0.75 ... 35	0.75 ... 35
1 wire	Finely stranded, with end sleeve	mm ²	0.75 ... 25	0.75 ... 25
	Conductors (Cu 60/75 °C $I_n \leq 40$ A; 60 °C $I_n > 40$ A)		AWG 18 ... 4	AWG 18 ... 4

Ambient conditions

Ambient temperature	°C	–25 ... +55 ⁴⁾	–40 ... +70 ³⁾
Storage temperature	°C	–40 ... +75 ³⁾	–40 ... +75 ³⁾
Shock acc. to IEC 60068-2-27 150 m/s ² at 11 ms half-sine		■	■
Resistance to vibrations acc. to IEC 60068-2-6 50 m/s ² at 25 ... 150 Hz and 60 m/s ² at 35 Hz (4 s)		■	■
Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering)		–	■
Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles)		–	■
Pollution degree for overvoltage category		3/III	3/III ²⁾

More information

Catalog LV 10

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See page 3/28

¹⁾ Exempt: C/D 0.3 A ... 0.5 A

²⁾ 5SY54... 4-pole, degree of pollution 2 for overvoltage category II

³⁾ 95% humidity up to 55 °C

⁴⁾ Max. 95% humidity

**5SP4****5SY5****5SY7****5SY8****5SJ4..HG..**IEC/EN 60898-1
UL 1077IEC/EN 60898-2
UL 1077IEC/EN 60898-1
IEC/EN 60947-2
UL 1077IEC/EN 60947-2
UL 1077IEC/EN 60947-2
UL 489

10

10

15

25

–

– | –

– | –

50 | 50

70 | 70

10

– | –

– | –

40 | 40

50 | 50

10

– | –

– | –

30 | 30

40 | 40

10

– | –

– | –

25 | 25

30 | 30

10

– | –

– | –

20 | 20

25 | 25

10

– | –

– | –

15 | 15

20 | 20

10

10 | 10

– | –

– | –

– | –

–

80 ... 125

0.3 ... 63

0.3 ... 63

0.3 ... 63

0.3 ... 63

1P | 2P | 3P | 4P

1P | 2P | 4P

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

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

1P | 2P | 3P

B | C | D

B | C

B | C | D

C | D

B | C | D

VDE, CCC,

LRVDE, CCC,

ABSVDE, IMQ, CCC,

DNV-GL, LR, BV, RINA, ABS
ABSVDE, CCC,

–

250/440

250/440

250/440

250/440

250/440

277/480

–

277/480

277/480

–

72

250

72¹⁾72¹⁾

60

–

–

–

–

277/480

4

4

4

4

4

50/60

50/60

50/60

50/60

50/60

–

■

■

■

■

10 ... 50

0.75 ... 35

0.75 ... 35

0.75 ... 35

–

10 ... 35

0.75 ... 25

0.75 ... 25

0.75 ... 25

–

AWG 3 ... 1

AWG 18 ... 4

AWG 18 ... 4

AWG 18 ... 4

–

–25 ... +55⁴⁾–40 ... +70³⁾–40 ... +70³⁾–25 ... +55⁴⁾–25 ... +55⁴⁾–40 ... +75³⁾–40 ... +75³⁾–40 ... +75³⁾–40 ... +75³⁾–40 ... +75³⁾

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3/III

3/III

3/III

3/III

3/III

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Device protection switches

For advanced applications for industry and machine manufacturing



5SY17

3

Standards

Standards	IEC 60934 UL 1077
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Basic data

Breaking capacity I_{cn}	for AC (230/400 V) acc. to IEC/EN 60898-1 AC	kA	3
Rated current		A	0.5 ... 16
Number of poles			1P+AS
DC tripping	Magnetic Thermal		F1 (2.5 ... $4 \times I_n$) F2 (4 ... $7 \times I_n$) 1.05 × holding current 1.35 × tripping current TC3 1.35 × I_n
	Electronic		–
Service life	Actuations		6000

Approvals

General product approvals	CCC, 
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Operational voltage

Max. AC	Acc. to EN 60898-1/-2, EN 60947-2	V	250
	Acc. to UL 1077, CSA C22.2 No.235	V	277
Max. DC per pole		V	72
Rated impulse withstand voltage U_{imp}		kV	4
Rated frequency f_n		Hz	50/60

Connection

Dual-chamber terminal			–
Conductor cross-section 1 wire	Solid/stranded	mm ²	0.75 ... 16
	Finely stranded with end sleeve	mm ²	0.75 ... 10
	Finely stranded with insulated end sleeve	mm ²	0.75 ... 10
	Finely stranded without end sleeve	mm ²	0.75 ... 16
	Conductor cross-section AWG		–
2-wire (same cross-section)	Solid/stranded	mm ²	0.75 ... 4
	Finely stranded with end sleeve	mm ²	0.75 ... 2.5
	Finely stranded with insulated end sleeve	mm ²	0.75 ... 1.5
	Finely stranded without end sleeve	mm ²	0.75 ... 4

Ambient conditions

Ambient temperature	°C	–25 ... +60
Storage temperature	°C	–40 ... +70
Shock acc. to IEC 60068-2-27 150 m/s ² at 11 ms half-sine		–
Resistance to vibrations acc. to IEC 60068-2-6 50 m/s ² at 25 ... 150 Hz and 60 m/s ² at 35 Hz (4 s)		–
Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering)		–
Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles)		–
Pollution degree for overvoltage category	Acc. to IEC	2/III

More information

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¹⁾ Max. 95% humidity



5SK9

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

—

1 ... 8

1P+AS

—

—

Overload $1.2 \times I_n / 1s$ | Short-circuit $2 \times I_n / <10 ms$

—

c **AL** **US**

—

—

30

0.5

—

—

0.2 ... 4

0.2 ... 2.5

0.2 ... 2.5

—

AWG 24 ... 12

—

—

—

—

–25 ... +60¹⁾

–40 ... +70

—

—

—

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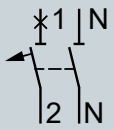
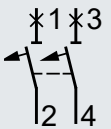
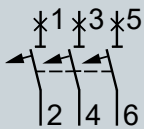
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[See page 3/41](#)

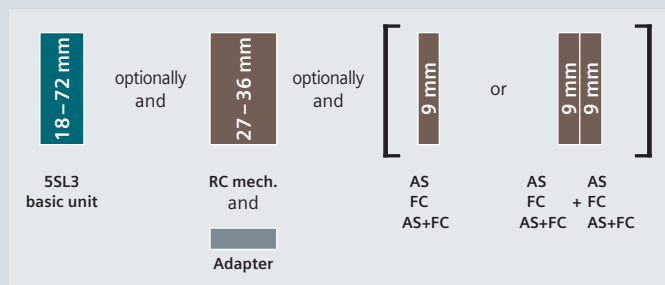
5SL3 miniature circuit breakers

4.5 kA

3

	1P 230/400 V AC	1P+N 230 V AC	2P 400 V AC	3P 400 V AC				
Mounting width	1 MW 	2 MW 	2 MW 	3 MW 				
Rated current I _n	Characteristic		Characteristic		Characteristic		Characteristic	
	B	C	B	C	B	C	B	C
0.3 A	–	5SL3114-7	–	5SL3514-7	–	5SL3214-7	–	–
0.5 A	–	5SL3105-7	–	5SL3505-7	–	5SL3205-7	–	–
1 A	–	5SL3101-7	–	5SL3501-7	–	5SL3201-7	–	5SL3301-7
1.6 A	–	5SL3115-7	–	5SL3515-7	–	5SL3215-7	–	–
2 A	–	5SL3102-7	–	5SL3502-7	–	5SL3202-7	–	5SL3302-7
3 A	–	5SL3103-7	–	5SL3503-7	–	5SL3203-7	–	5SL3303-7
4 A	–	5SL3104-7	–	5SL3504-7	–	5SL3204-7	–	5SL3304-7
6 A	5SL3106-6	5SL3106-7	5SL3506-6	5SL3506-7	5SL3206-6	5SL3206-7	5SL3306-6	5SL3306-7
8 A	–	5SL3108-7	–	5SL3508-7	–	5SL3208-7	–	–
10 A	5SL3110-6	5SL3110-7	5SL3510-6	5SL3510-7	5SL3210-6	5SL3210-7	5SL3310-6	5SL3310-7
13 A	5SL3113-6	5SL3113-7	5SL3513-6	5SL3513-7	5SL3213-6	5SL3213-7	–	–
16 A	5SL3116-6	5SL3116-7	5SL3516-6	5SL3516-7	5SL3216-6	5SL3216-7	5SL3316-6	5SL3316-7
20 A	5SL3120-6	5SL3120-7	5SL3520-6	5SL3520-7	5SL3220-6	5SL3220-7	5SL3320-6	5SL3320-7
25 A	5SL3125-6	5SL3125-7	5SL3525-6	5SL3525-7	5SL3225-6	5SL3225-7	5SL3325-6	5SL3325-7
32 A	5SL3132-6	5SL3132-7	5SL3532-6	5SL3532-7	5SL3232-6	5SL3232-7	5SL3332-6	5SL3332-7
40 A	5SL3140-6	5SL3140-7	5SL3540-6	5SL3540-7	5SL3240-6	5SL3240-7	5SL3340-6	5SL3340-7
50 A	5SL3150-6	5SL3150-7	5SL3550-6	5SL3550-7	5SL3250-6	5SL3250-7	5SL3350-6	5SL3350-7
63 A	5SL3163-6	5SL3163-7	5SL3563-6	5SL3563-7	5SL3263-6	5SL3263-7	5SL3363-6	5SL3363-7

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 RC mech. Remote controlled mechanisms

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3P+N 400 V AC 4 MW		4P 400 V AC 4 MW	
Characteristic		Characteristic	
B	C	B	C
–	–	–	–
–	–	–	–
–	5SL3601-7	–	5SL3401-7
–	–	–	–
–	5SL3602-7	–	5SL3402-7
–	5SL3603-7	–	5SL3403-7
–	5SL3604-7	–	5SL3404-7
5SL3606-6	5SL3606-7	–	5SL3406-7
–	5SL3608-7	–	–
5SL3610-6	5SL3610-7	–	5SL3410-7
5SL3613-6	5SL3613-7	–	5SL3413-7
5SL3616-6	5SL3616-7	–	5SL3416-7
5SL3620-6	5SL3620-7	–	5SL3420-7
5SL3625-6	5SL3625-7	–	5SL3425-7
5SL3632-6	5SL3632-7	–	5SL3432-7
5SL3640-6	5SL3640-7	–	5SL3440-7
5SL3650-6	5SL3650-7	–	5SL3450-7
5SL3663-6	5SL3663-7	–	5SL3463-7

Accessories

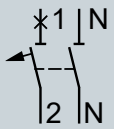
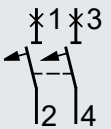
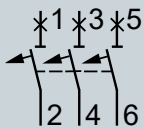
Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020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

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

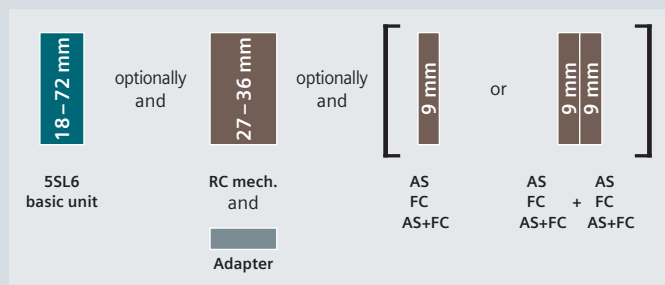
5SL6 miniature circuit breakers

6 kA

3

Mounting width	1P 230/400 V AC	1P+N 230 V AC	2P 400 V AC	3P 400 V AC				
	1 MW 	2 MW 	2 MW 	3 MW 				
Rated current I _n	Characteristic		Characteristic		Characteristic		Characteristic	
	B	C	B	C	B	C	B	C
0.3 A	–	5SL6114-7	–	5SL6514-7	–	5SL6214-7	–	5SL6314-7
0.5 A	–	5SL6105-7	–	5SL6505-7	–	5SL6205-7	–	5SL6305-7
1 A	–	5SL6101-7	–	5SL6501-7	–	5SL6201-7	–	5SL6301-7
1.6 A	–	5SL6115-7	–	5SL6515-7	–	5SL6215-7	–	5SL6315-7
2 A	5SL6102-6	5SL6102-7	–	5SL6502-7	–	5SL6202-7	–	5SL6302-7
3 A	–	5SL6103-7	–	5SL6503-7	–	5SL6203-7	–	5SL6303-7
4 A	5SL6104-6	5SL6104-7	–	5SL6504-7	–	5SL6204-7	–	5SL6304-7
6 A	5SL6106-6	5SL6106-7	5SL6506-6	5SL6506-7	5SL6206-6	5SL6206-7	5SL6306-6	5SL6306-7
8 A	–	5SL6108-7	–	5SL6508-7	–	5SL6208-7	–	5SL6308-7
10 A	5SL6110-6	5SL6110-7	5SL6510-6	5SL6510-7	5SL6210-6	5SL6210-7	5SL6310-6	5SL6310-7
13 A	5SL6113-6	5SL6113-7	5SL6513-6	5SL6513-7	5SL6213-6	5SL6213-7	5SL6313-6	5SL6313-7
16 A	5SL6116-6	5SL6116-7	5SL6516-6	5SL6516-7	5SL6216-6	5SL6216-7	5SL6316-6	5SL6316-7
20 A	5SL6120-6	5SL6120-7	5SL6520-6	5SL6520-7	5SL6220-6	5SL6220-7	5SL6320-6	5SL6320-7
25 A	5SL6125-6	5SL6125-7	5SL6525-6	5SL6525-7	5SL6225-6	5SL6225-7	5SL6325-6	5SL6325-7
32 A	5SL6132-6	5SL6132-7	5SL6532-6	5SL6532-7	5SL6232-6	5SL6232-7	5SL6332-6	5SL6332-7
40 A	5SL6140-6	5SL6140-7	5SL6540-6	5SL6540-7	5SL6240-6	5SL6240-7	5SL6340-6	5SL6340-7
50 A	5SL6150-6	5SL6150-7	5SL6550-6	5SL6550-7	5SL6250-6	5SL6250-7	5SL6350-6	5SL6350-7
63 A	5SL6163-6	5SL6163-7	5SL6563-6	5SL6563-7	5SL6263-6	5SL6263-7	5SL6363-6	5SL6363-7

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 RC mech. Remote controlled mechanisms

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3P+N 400 V AC 4 MW		4P 400 V AC 4 MW	
Characteristic		Characteristic	
B	C	B	C
–	5SL6614-7	–	5SL6414-7
–	5SL6605-7	–	5SL6405-7
–	5SL6601-7	–	5SL6401-7
–	5SL6615-7	–	5SL6415-7
–	5SL6602-7	–	5SL6402-7
–	5SL6603-7	–	5SL6403-7
–	5SL6604-7	–	5SL6404-7
5SL6606-6	5SL6606-7	5SL6406-6	5SL6406-7
–	5SL6608-7	–	5SL6408-7
5SL6610-6	5SL6610-7	5SL6410-6	5SL6410-7
5SL6613-6	5SL6613-7	5SL6413-6	5SL6413-7
5SL6616-6	5SL6616-7	5SL6416-6	5SL6416-7
5SL6620-6	5SL6620-7	5SL6420-6	5SL6420-7
5SL6625-6	5SL6625-7	5SL6425-6	5SL6425-7
5SL6632-6	5SL6632-7	5SL6432-6	5SL6432-7
5SL6640-6	5SL6640-7	5SL6440-6	5SL6440-7
5SL6650-6	5SL6650-7	5SL6450-6	5SL6450-7
5SL6663-6	5SL6663-7	5SL6463-6	5SL6463-7

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

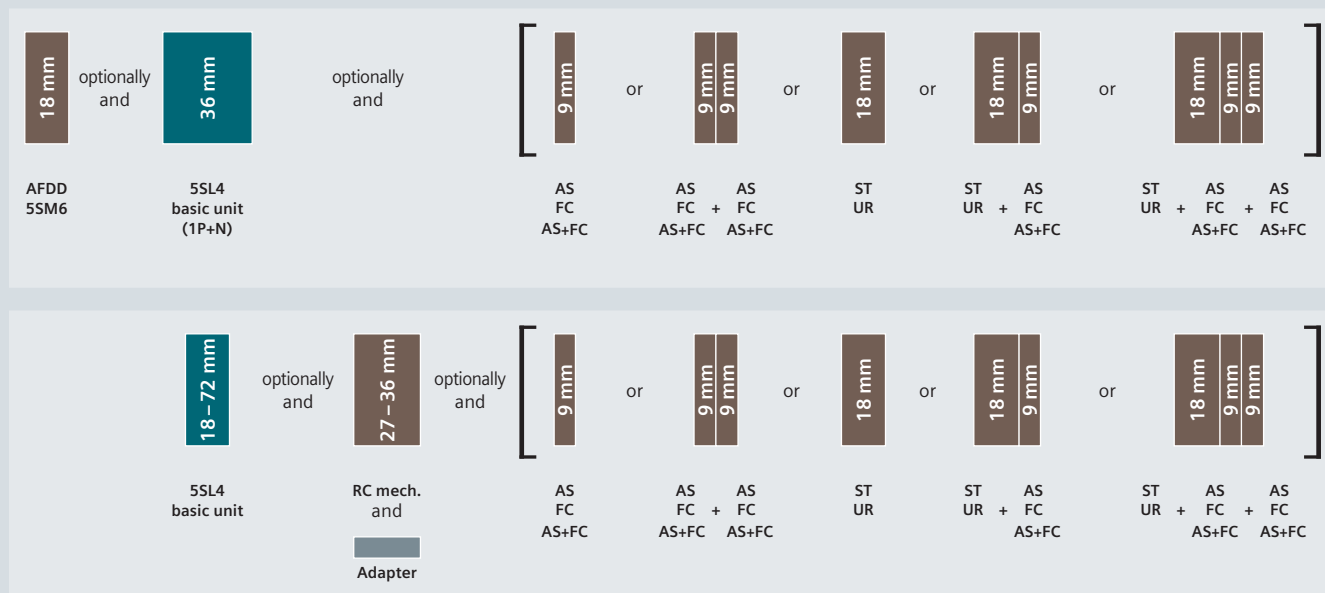
Auxiliary switches and fault signal contacts (AS+FC)		Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
Remote controlled mechanisms (RC mech.)		
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ...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

5SL4 miniature circuit breakers

10 kA

Mounting width	1P 230/400 V AC			1P+N 230 V AC			2P 400 V AC		
	1 MW			2 MW			2 MW		
Rated current I_n	Characteristic			Characteristic			Characteristic		
	B	C	D	B	C	D	B	C	D
0.3 A	–	5SL4114-7	5SL4114-8	–	5SL4514-7	5SL4514-8	–	5SL4214-7	5SL4214-8
0.5 A	–	5SL4105-7	5SL4105-8	–	5SL4505-7	5SL4505-8	–	5SL4205-7	5SL4205-8
1 A	5SL4101-6	5SL4101-7	5SL4101-8	5SL4501-6	5SL4501-7	5SL4501-8	5SL4201-6	5SL4201-7	5SL4201-8
1.6 A	–	5SL4115-7	5SL4115-8	–	5SL4515-7	5SL4515-8	–	5SL4215-7	5SL4215-8
2 A	5SL4102-6	5SL4102-7	5SL4102-8	5SL4502-6	5SL4502-7	5SL4502-8	5SL4202-6	5SL4202-7	5SL4202-8
3 A	5SL4103-6	5SL4103-7	5SL4103-8	5SL4503-6	5SL4503-7	5SL4503-8	5SL4203-6	5SL4203-7	5SL4203-8
4 A	5SL4104-6	5SL4104-7	5SL4104-8	5SL4504-6	5SL4504-7	5SL4504-8	5SL4204-6	5SL4204-7	5SL4204-8
6 A	5SL4106-6	5SL4106-7	5SL4106-8	5SL4506-6	5SL4506-7	5SL4506-8	5SL4206-6	5SL4206-7	5SL4206-8
8 A	5SL4108-6	5SL4108-7	5SL4108-8	5SL4508-6	5SL4508-7	5SL4508-8	5SL4208-6	5SL4208-7	5SL4208-8
10 A	5SL4110-6	5SL4110-7	5SL4110-8	5SL4510-6	5SL4510-7	5SL4510-8	5SL4210-6	5SL4210-7	5SL4210-8
13 A	5SL4113-6	5SL4113-7	5SL4113-8	5SL4513-6	5SL4513-7	5SL4513-8	5SL4213-6	5SL4213-7	5SL4213-8
16 A	5SL4116-6	5SL4116-7	5SL4116-8	5SL4516-6	5SL4516-7	5SL4516-8	5SL4216-6	5SL4216-7	5SL4216-8
20 A	5SL4120-6	5SL4120-7	5SL4120-8	5SL4520-6	5SL4520-7	5SL4520-8	5SL4220-6	5SL4220-7	5SL4220-8
25 A	5SL4125-6	5SL4125-7	5SL4125-8	5SL4525-6	5SL4525-7	5SL4525-8	5SL4225-6	5SL4225-7	5SL4225-8
32 A	5SL4132-6	5SL4132-7	5SL4132-8	5SL4532-6	5SL4532-7	5SL4532-8	5SL4232-6	5SL4232-7	5SL4232-8
40 A	5SL4140-6	5SL4140-7	5SL4140-8	5SL4540-6	5SL4540-7	5SL4540-8	5SL4240-6	5SL4240-7	5SL4240-8
50 A	5SL4150-6	5SL4150-7	5SL4150-8	5SL4550-6	5SL4550-7	5SL4550-8	5SL4250-6	5SL4250-7	5SL4250-8
63 A	5SL4163-6	5SL4163-7	5SL4163-8	5SL4563-6	5SL4563-7	5SL4563-8	5SL4263-6	5SL4263-7	5SL4263-8

Mounting concept



AFDD Arc fault detection devices [See page 3/50](#)
 AS Auxiliary switches [See page 3/44](#)
 FC Fault signal contacts [See page 3/45](#)

AS+FC Auxiliary switches and fault signal contacts [See page 3/46](#)
 ST Shunt trip [See page 3/47](#)

UR Undervoltage releases [See page 3/48](#)
 RC mech. Remote controlled mechanisms [See page 3/49](#)



3P 400 V AC 3 MW			3P+N 400 V AC 4 MW			4P 400 V AC 4 MW		
Characteristic			Characteristic			Characteristic		
B	C	D	B	C	D	B	C	D
–	5SL4314-7	5SL4314-8	–	5SL4614-7	5SL4614-8	–	5SL4414-7	5SL4414-8
–	5SL4305-7	5SL4305-8	–	5SL4605-7	5SL4605-8	–	5SL4405-7	5SL4405-8
5SL4301-6	5SL4301-7	5SL4301-8	5SL4601-6	5SL4601-7	5SL4601-8	5SL4401-6	5SL4401-7	5SL4401-8
–	5SL4315-7	5SL4315-8	–	5SL4615-7	5SL4615-8	–	5SL4415-7	5SL4415-8
5SL4302-6	5SL4302-7	5SL4302-8	5SL4602-6	5SL4602-7	5SL4602-8	5SL4402-6	5SL4402-7	5SL4402-8
5SL4303-6	5SL4303-7	5SL4303-8	5SL4603-6	5SL4603-7	5SL4603-8	5SL4403-6	5SL4403-7	5SL4403-8
5SL4304-6	5SL4304-7	5SL4304-8	5SL4604-6	5SL4604-7	5SL4604-8	5SL4404-6	5SL4404-7	5SL4404-8
5SL4306-6	5SL4306-7	5SL4306-8	5SL4606-6	5SL4606-7	5SL4606-8	5SL4406-6	5SL4406-7	5SL4406-8
5SL4308-6	5SL4308-7	5SL4308-8	5SL4608-6	5SL4608-7	5SL4608-8	5SL4408-6	5SL4408-7	5SL4408-8
5SL4310-6	5SL4310-7	5SL4310-8	5SL4610-6	5SL4610-7	5SL4610-8	5SL4410-6	5SL4410-7	5SL4410-8
5SL4313-6	5SL4313-7	5SL4313-8	5SL4613-6	5SL4613-7	5SL4613-8	5SL4413-6	5SL4413-7	5SL4413-8
5SL4316-6	5SL4316-7	5SL4316-8	5SL4616-6	5SL4616-7	5SL4616-8	5SL4416-6	5SL4416-7	5SL4416-8
5SL4320-6	5SL4320-7	5SL4320-8	5SL4620-6	5SL4620-7	5SL4620-8	5SL4420-6	5SL4420-7	5SL4420-8
5SL4325-6	5SL4325-7	5SL4325-8	5SL4625-6	5SL4625-7	5SL4625-8	5SL4425-6	5SL4425-7	5SL4425-8
5SL4332-6	5SL4332-7	5SL4332-8	5SL4632-6	5SL4632-7	5SL4632-8	5SL4432-6	5SL4432-7	5SL4432-8
5SL4340-6	5SL4340-7	5SL4340-8	5SL4640-6	5SL4640-7	5SL4640-8	5SL4440-6	5SL4440-7	5SL4440-8
5SL4350-6	5SL4350-7	5SL4350-8	5SL4650-6	5SL4650-7	5SL4650-8	5SL4450-6	5SL4450-7	5SL4450-8
5SL4363-6	5SL4363-7	5SL4363-8	5SL4663-6	5SL4663-7	5SL4663-8	5SL4463-6	5SL4463-7	5SL4463-8

Accessories

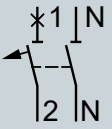
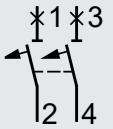
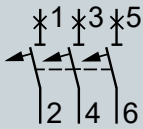
Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020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

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1–2 MW		5ST3820-6
3–4 MW		5ST3820-7
Arc fault detection devices (AFDD)		Article No.
For basic units 1P+N (2 MW), not in combination with RC mech.	I _n up to 16 A	5SM6021-2
	I _n up to 40 A	5SM6024-2

5SJ6...-KS miniature circuit breakers

6 kA – plug-in terminal on outgoing side



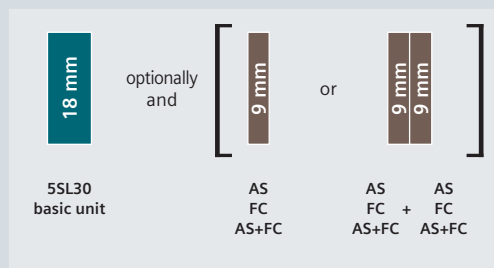
	1P 230/400 V AC	1P+N 230/400 V AC	2P 230/400 V AC	3P 230/400 V AC
Mounting width	1 MW 	2 MW 	2 MW 	3 MW 
3	Rated current I_n		Rated current I_n	
	Characteristic B	Characteristic C	Characteristic B	Characteristic C
	10 A	5SJ6110-6KS 5SJ6110-7KS	5SJ6510-6KS 5SJ6510-7KS	5SJ6210-6KS 5SJ6210-7KS
	13 A	5SJ6113-6KS 5SJ6113-7KS	5SJ6513-6KS 5SJ6513-7KS	5SJ6213-6KS 5SJ6213-7KS
	16 A	5SJ6116-6KS 5SJ6116-7KS	5SJ6516-6KS 5SJ6516-7KS	5SJ6216-6KS 5SJ6216-7KS
	20 A	5SJ6120-6KS 5SJ6120-7KS	5SJ6520-6KS 5SJ6520-7KS	5SJ6220-6KS 5SJ6220-7KS
	Rated current I_n		Rated current I_n	
	Characteristic B	Characteristic C	Characteristic B	Characteristic C
	10 A	5SJ6310-6KS 5SJ6310-7KS	5SJ6610-6KS 5SJ6610-7KS	5SJ6810-6KS 5SJ6810-7KS
	13 A	5SJ6313-6KS 5SJ6313-7KS	5SJ6613-6KS 5SJ6613-7KS	5SJ6813-6KS 5SJ6813-7KS
	16 A	5SJ6316-6KS 5SJ6316-7KS	5SJ6616-6KS 5SJ6616-7KS	5SJ6816-6KS 5SJ6816-7KS
	20 A	5SJ6320-6KS 5SJ6320-7KS	5SJ6620-6KS 5SJ6620-7KS	5SJ6820-6KS 5SJ6820-7KS

5SL30 miniature circuit breakers

1P+N 4.5 kA compact miniature circuit breakers

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

Mounting concept



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

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[See page 3/45](#)
[See page 3/46](#)



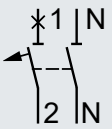
Accessories

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

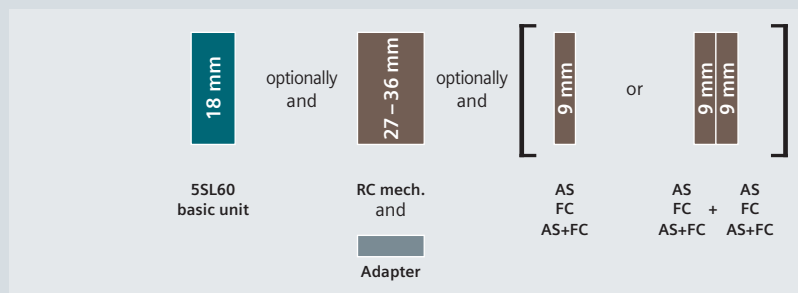
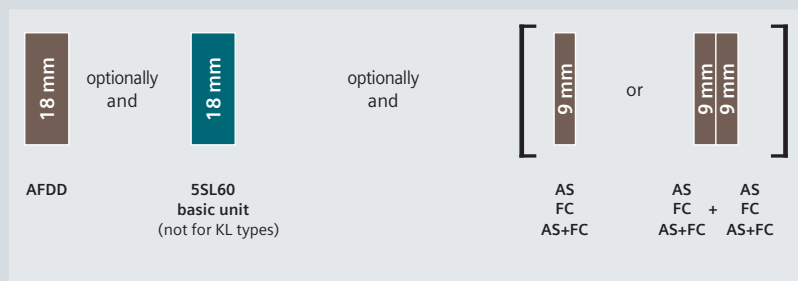
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		Article No.
1 CO (AS) + 1 CO (FC)		5ST3062

5SL60 miniature circuit breakers

1P+N 6 kA compact miniature circuit breakers

	1P+N (N pole right) 230 V AC	1P+N (N pole left) 230 V AC	
Mounting width	1 MW 	1 MW 	
Rated current I _n	Characteristic B	Characteristic C	
		Characteristic C	
2 A	–	5SL6002-7	5SL6002-7KL
4 A	–	5SL6004-7	5SL6004-7KL
6 A	5SL6006-6	5SL6006-7	5SL6006-7KL
8 A	–	5SL6008-7	5SL6008-7KL
10 A	5SL6010-6	5SL6010-7	5SL6010-7KL
13 A	5SL6013-6	5SL6013-7	5SL6013-7KL
16 A	5SL6016-6	5SL6016-7	5SL6016-7KL
20 A	5SL6020-6	5SL6020-7	5SL6020-7KL
25 A	5SL6025-6	5SL6025-7	5SL6025-7KL
32 A	5SL6032-6	5SL6032-7	5SL6032-7KL
40 A	5SL6040-6	5SL6040-7	5SL6040-7KL

Mounting concept



AFDD Arc fault detection devices
 AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 RC mech. Remote controlled mechanisms

[See page 3/50](#)
[See page 3/44](#)
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Accessories

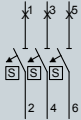
Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020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

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

5SP3 selective main miniature circuit breakers (SHU)

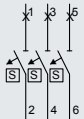
25 kA, mounting on a 40 mm busbar



Mounting width	1P 230/400 V AC				3 × 1P 230/400 V AC
	1.5 MW				4.5 MW
					
Rated current I _n	Characteristic E				Characteristic E
	L1	L2	L3	L1 + L2 + L3	
16 A	5SP3716-2KK01	5SP3716-2KK02	5SP3716-2KK03	5SP3716-2	5SP3816-2
20 A	5SP3720-2KK01	5SP3720-2KK02	5SP3720-2KK03	5SP3720-2	5SP3820-2
25 A	5SP3725-2KK01	5SP3725-2KK02	5SP3725-2KK03	5SP3725-2	5SP3825-2
35 A	5SP3735-2KK01	5SP3735-2KK02	5SP3735-2KK03	5SP3735-2	5SP3835-2
40 A	5SP3740-2KK01	5SP3740-2KK02	5SP3740-2KK03	5SP3740-2	5SP3840-2
50 A	5SP3750-2KK01	5SP3750-2KK02	5SP3750-2KK03	5SP3750-2	5SP3850-2
63 A	5SP3763-2KK01	5SP3763-2KK02	5SP3763-2KK03	5SP3763-2	5SP3863-2

25 kA, mounting on a 40 mm busbar



Mounting width	3 × 1P 230/400 V AC	
	4.5 MW	
		
Rated current I _n	Characteristic E	
80 A	5SP3780-1	
100 A	5SP3791-1	

Specific accessories

Busbar adapters



- For fitting 5SP37...-1 SHU circuit breakers
- Plug-on

Busbar spacing

40 mm

Article No.

5ST1328

Breaker blocking covers



Purpose

To prevent manual switching OFF

Article No.

5ST1318

Operating protective covers (spare part)



- Multiple locking options against accidental and intentional operation
 - With padlock
 - With Phillips screwdriver
 - With special wrench (Antilux)
 - These can be installed by the operator or the power utility
- 3 units included with the main miniature circuit breaker (SHU) 5SP37...-1

Version

Transparent

Article No.

5ST1323

Terminal covers



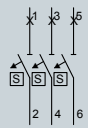
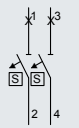
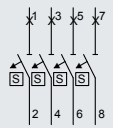
- Terminal covers in compliance with cladding dimensions acc. to DIN 43880
- 2 units required per device

Article No.

5ST1316



25 kA, mounting on a mounting rail

	1P 230/400 V AC	3× 1P 230/400 V AC	2P 230/400 V AC	3P 230/400 V AC	4P 230/400 V AC
Mounting width	1.5 MW 	4.5 MW 	3 MW 	4.5 MW 	6 MW 
Rated current I _n	Characteristic E	Characteristic E	Characteristic E	Characteristic E	Characteristic E
16 A	5SP3716-3	5SP3816-3	5SP3216-3	5SP3316-3	5SP3416-3
20 A	5SP3720-3	5SP3820-3	5SP3220-3	5SP3320-3	5SP3420-3
25 A	5SP3725-3	5SP3825-3	5SP3225-3	5SP3325-3	5SP3425-3
35 A	5SP3735-3	5SP3835-3	5SP3235-3	5SP3335-3	5SP3435-3
40 A	5SP3740-3	5SP3840-3	5SP3240-3	5SP3340-3	5SP3440-3
50 A	5SP3750-3	5SP3850-3	5SP3250-3	5SP3350-3	5SP3450-3
63 A	5SP3763-3	5SP3863-3	5SP3263-3	5SP3363-3	5SP3463-3

3

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



	1P 230/400 V AC
Mounting width	1.5 MW 
Rated current I _n	Characteristic E
80 A	5SP3780
100 A	5SP3791

Specific accessories

Mounting plates



- For mounting on standard mounting rails according to EN 50022
- For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm

Article No.
5ST1322

Busbar adapters



- For fitting 3 5SP37.. SHU circuit breakers
- Plug-on

Busbar spacing
40 mm
Article No.
5ST1328

Breaker blocking covers



Purpose
To prevent manual switching OFF
Article No.
5ST1318

Operating protective covers (spare part)



- Multiple locking options against accidental and intentional operation
 - With padlock
 - With Phillips screwdriver
 - With special wrench (Antilux)
 - These can be installed by the operator or the power utility

Version
Transparent
Article No.
5ST1323

Terminal covers



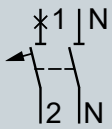
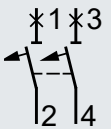
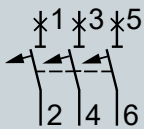
- Terminal covers in compliance with cladding dimensions acc. to DIN 43880
- 2 units required per device

Article No.
5ST1316

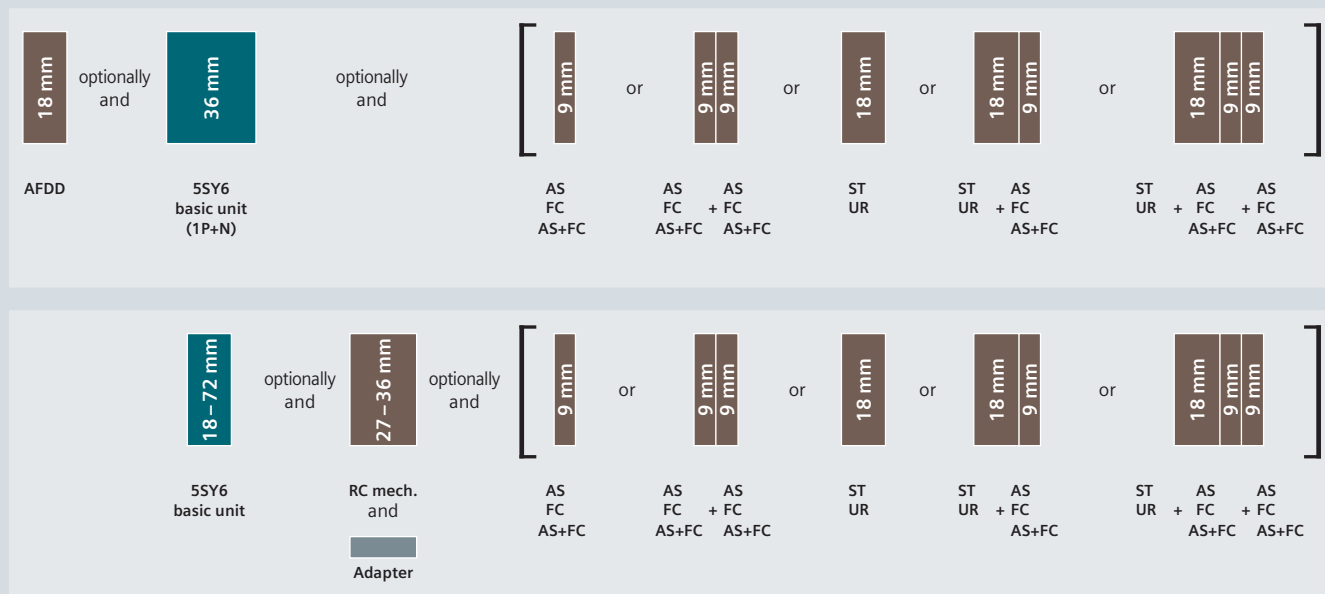
5SY6 miniature circuit breakers

6 kA

3

	1P 230/400 V AC	1P+N 230 V AC	2P 400 V AC	3P 400 V AC				
Mounting width	1 MW 	2 MW 	2 MW 	3 MW 				
Rated current I _n	Characteristic		Characteristic		Characteristic		Characteristic	
	B	C	B	C	B	C	B	C
0.3 A	–	5SY6114-7	–	5SY6514-7	–	5SY6214-7	–	5SY6314-7
0.5 A	–	5SY6105-7	–	5SY6505-7	–	5SY6205-7	–	5SY6305-7
1 A	–	5SY6101-7	–	5SY6501-7	–	5SY6201-7	–	5SY6301-7
1.6 A	–	5SY6115-7	–	5SY6515-7	–	5SY6215-7	–	5SY6315-7
2 A	5SY6102-6	5SY6102-7	–	5SY6502-7	–	5SY6202-7	–	5SY6302-7
3 A	–	5SY6103-7	–	5SY6503-7	–	5SY6203-7	–	5SY6303-7
4 A	5SY6104-6	5SY6104-7	–	5SY6504-7	–	5SY6204-7	–	5SY6304-7
5 A	–	5SY6111-7	–	–	–	5SY6211-7	–	5SY6311-7
6 A	5SY6106-6	5SY6106-7	5SY6506-6	5SY6506-7	5SY6206-6	5SY6206-7	5SY6306-6	5SY6306-7
8 A	–	5SY6108-7	–	5SY6508-7	–	5SY6208-7	–	5SY6308-7
10 A	5SY6110-6	5SY6110-7	5SY6510-6	5SY6510-7	5SY6210-6	5SY6210-7	5SY6310-6	5SY6310-7
13 A	5SY6113-6	5SY6113-7	5SY6513-6	5SY6513-7	5SY6213-6	5SY6213-7	5SY6313-6	5SY6313-7
15 A	–	5SY6118-7	–	–	–	5SY6218-7	–	5SY6318-7
16 A	5SY6116-6	5SY6116-7	5SY6516-6	5SY6516-7	5SY6216-6	5SY6216-7	5SY6316-6	5SY6316-7
20 A	5SY6120-6	5SY6120-7	5SY6520-6	5SY6520-7	5SY6220-6	5SY6220-7	5SY6320-6	5SY6320-7
25 A	5SY6125-6	5SY6125-7	5SY6525-6	5SY6525-7	5SY6225-6	5SY6225-7	5SY6325-6	5SY6325-7
30 A	–	5SY6130-7	–	–	–	5SY6230-7	–	5SY6330-7
32 A	5SY6132-6	5SY6132-7	5SY6532-6	5SY6532-7	5SY6232-6	5SY6232-7	5SY6332-6	5SY6332-7
40 A	5SY6140-6	5SY6140-7	5SY6540-6	5SY6540-7	5SY6240-6	5SY6240-7	5SY6340-6	5SY6340-7
50 A	5SY6150-6	5SY6150-7	5SY6550-6	5SY6550-7	5SY6250-6	5SY6250-7	5SY6350-6	5SY6350-7
63 A	5SY6163-6	5SY6163-7	5SY6563-6	5SY6563-7	5SY6263-6	5SY6263-7	5SY6363-6	5SY6363-7

Mounting concept



AFDD Arc fault detection devices [See page 3/50](#)
 AS Auxiliary switches [See page 3/44](#)
 FC Fault signal contacts [See page 3/45](#)

AS+FC Auxiliary switches and fault signal contacts [See page 3/46](#)
 ST Shunt trip [See page 3/47](#)

UR Undervoltage releases [See page 3/48](#)
 RC mech. Remote controlled mechanisms [See page 3/49](#)



3P+N 400 V AC 4 MW		4P 400 V AC 4 MW	
Characteristic		Characteristic	
B	C	B	C
–	5SY6614-7	–	5SY6414-7
–	5SY6605-7	–	5SY6405-7
–	5SY6601-7	–	5SY6401-7
–	5SY6615-7	–	5SY6415-7
–	5SY6602-7	–	5SY6402-7
–	5SY6603-7	–	5SY6403-7
–	5SY6604-7	–	5SY6404-7
–	–	–	–
5SY6606-6	5SY6606-7	5SY6406-6	5SY6406-7
–	5SY6608-7	–	5SY6408-7
5SY6610-6	5SY6610-7	5SY6410-6	5SY6410-7
5SY6613-6	5SY6613-7	5SY6413-6	5SY6413-7
–	–	–	–
5SY6616-6	5SY6616-7	5SY6416-6	5SY6416-7
5SY6620-6	5SY6620-7	5SY6420-6	5SY6420-7
5SY6625-6	5SY6625-7	5SY6425-6	5SY6425-7
–	–	–	–
5SY6632-6	5SY6632-7	5SY6432-6	5SY6432-7
5SY6640-6	5SY6640-7	5SY6440-6	5SY6440-7
5SY6650-6	5SY6650-7	5SY6450-6	5SY6450-7
5SY6663-6	5SY6663-7	5SY6463-6	5SY6463-7

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

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1–2 MW		5ST3820-1
3–4 MW		5ST3820-2
Arc fault detection devices (AFDD)		Article No.
For basic units 1P+N (2 MW), not in combination with RC mech.	I _n up to 16 A	5SM6021-2
	I _n up to 40 A	5SM6024-2

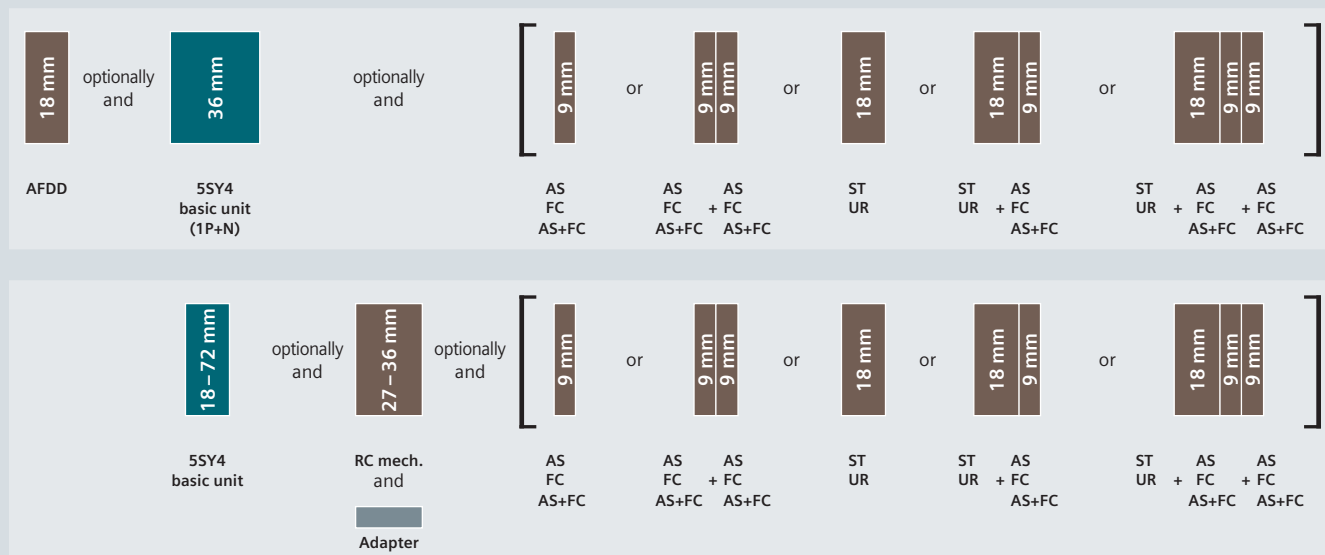
5SY4 miniature circuit breakers

10 kA

3

Mounting width	1P 230/400 V AC				1P+N 230 V AC				2P 400 V AC			
	1 MW				2 MW				2 MW			
Rated current I _n	Characteristic				Characteristic				Characteristic			
	A	B	C	D	A	B	C	D	A	B	C	D
0.3 A	–	–	5SY4114-7	5SY4114-8	–	–	5SY4514-7	5SY4514-8	–	–	5SY4214-7	5SY4214-8
0.5 A	5SY4105-5	–	5SY4105-7	5SY4105-8	–	–	5SY4505-7	5SY4505-8	5SY4205-5	–	5SY4205-7	5SY4205-8
1 A	5SY4101-5	–	5SY4101-7	5SY4101-8	5SY4501-5	–	5SY4501-7	5SY4501-8	5SY4201-5	–	5SY4201-7	5SY4201-8
1.6 A	5SY4115-5	–	5SY4115-7	5SY4115-8	5SY4515-5	–	5SY4515-7	5SY4515-8	5SY4215-5	–	5SY4215-7	5SY4215-8
2 A	5SY4102-5	5SY4102-6	5SY4102-7	5SY4102-8	5SY4502-5	–	5SY4502-7	5SY4502-8	5SY4202-5	–	5SY4202-7	5SY4202-8
3 A	5SY4103-5	–	5SY4103-7	5SY4103-8	5SY4503-5	–	5SY4503-7	5SY4503-8	5SY4203-5	–	5SY4203-7	5SY4203-8
4 A	5SY4104-5	5SY4104-6	5SY4104-7	5SY4104-8	5SY4504-5	–	5SY4504-7	5SY4504-8	5SY4204-5	–	5SY4204-7	5SY4204-8
5 A	–	–	5SY4111-7	–	–	–	–	–	–	–	5SY4211-7	–
6 A	5SY4106-5	5SY4106-6	5SY4106-7	5SY4106-8	5SY4506-5	5SY4506-6	5SY4506-7	5SY4506-8	5SY4206-5	5SY4206-6	5SY4206-7	5SY4206-8
8 A	5SY4108-5	–	5SY4108-7	5SY4108-8	5SY4508-5	–	5SY4508-7	5SY4508-8	5SY4208-5	–	5SY4208-7	5SY4208-8
10 A	5SY4110-5	5SY4110-6	5SY4110-7	5SY4110-8	5SY4510-5	5SY4510-6	5SY4510-7	5SY4510-8	5SY4210-5	5SY4210-6	5SY4210-7	5SY4210-8
13 A	5SY4113-5	5SY4113-6	5SY4113-7	5SY4113-8	5SY4513-5	5SY4513-6	5SY4513-7	5SY4513-8	5SY4213-5	5SY4213-6	5SY4213-7	5SY4213-8
15 A	–	–	5SY4118-7	–	–	–	–	–	–	–	5SY4218-7	–
16 A	5SY4116-5	5SY4116-6	5SY4116-7	5SY4116-8	5SY4516-5	5SY4516-6	5SY4516-7	5SY4516-8	5SY4216-5	5SY4216-6	5SY4216-7	5SY4216-8
20 A	5SY4120-5	5SY4120-6	5SY4120-7	5SY4120-8	5SY4520-5	5SY4520-6	5SY4520-7	5SY4520-8	5SY4220-5	5SY4220-6	5SY4220-7	5SY4220-8
25 A	5SY4125-5	5SY4125-6	5SY4125-7	5SY4125-8	5SY4525-5	5SY4525-6	5SY4525-7	5SY4525-8	5SY4225-5	5SY4225-6	5SY4225-7	5SY4225-8
30 A	–	–	5SY4130-7	–	–	–	–	–	–	–	5SY4230-7	–
32 A	5SY4132-5	5SY4132-6	5SY4132-7	5SY4132-8	5SY4532-5	5SY4532-6	5SY4532-7	5SY4532-8	5SY4232-5	5SY4232-6	5SY4232-7	5SY4232-8
35 A	–	–	5SY4135-7	–	–	–	–	–	–	–	5SY4235-7	–
40 A	5SY4140-5	5SY4140-6	5SY4140-7	5SY4140-8	5SY4540-5	5SY4540-6	5SY4540-7	5SY4540-8	5SY4240-5	5SY4240-6	5SY4240-7	5SY4240-8
45 A	–	–	5SY4145-7	–	–	–	–	–	–	–	5SY4245-7	–
50 A	5SY4150-5	5SY4150-6	5SY4150-7	5SY4150-8	5SY4550-5	5SY4550-6	5SY4550-7	5SY4550-8	5SY4250-5	5SY4250-6	5SY4250-7	5SY4250-8
60 A	–	–	5SY4160-7	–	–	–	–	–	–	–	5SY4260-7	–
63 A	5SY4163-5	5SY4163-6	5SY4163-7	5SY4163-8	5SY4563-5	5SY4563-6	5SY4563-7	5SY4563-8	5SY4263-5	5SY4263-6	5SY4263-7	5SY4263-8
80 A	–	5SY4180-6	5SY4180-7	–	–	–	5SY4580-7	–	–	5SY4280-6	5SY4280-7	–

Mounting concept





3P 400 V AC 3 MW				3P+N 400 V AC 4 MW				4P 400 V AC 4 MW			
Characteristic				Characteristic				Characteristic			
A	B	C	D	A	B	C	D	A	B	C	D
–	–	5SY4314-7	5SY4314-8	–	–	5SY4614-7	5SY4614-8	–	–	5SY4414-7	5SY4414-8
5SY4305-5	–	5SY4305-7	5SY4305-8	–	–	5SY4605-7	5SY4605-8	–	–	5SY4405-7	5SY4405-8
5SY4301-5	–	5SY4301-7	5SY4301-8	5SY4601-5	–	5SY4601-7	5SY4601-8	5SY4401-5	–	5SY4401-7	5SY4401-8
5SY4315-5	–	5SY4315-7	5SY4315-8	5SY4615-5	–	5SY4615-7	5SY4615-8	5SY4415-5	–	5SY4415-7	5SY4415-8
5SY4302-5	–	5SY4302-7	5SY4302-8	5SY4602-5	–	5SY4602-7	5SY4602-8	5SY4402-5	–	5SY4402-7	5SY4402-8
5SY4303-5	–	5SY4303-7	5SY4303-8	5SY4603-5	–	5SY4603-7	5SY4603-8	5SY4403-5	–	5SY4403-7	5SY4403-8
5SY4304-5	–	5SY4304-7	5SY4304-8	5SY4604-5	–	5SY4604-7	5SY4604-8	5SY4404-5	–	5SY4404-7	5SY4404-8
–	–	5SY4311-7	–	–	–	–	–	–	–	–	–
5SY4306-5	5SY4306-6	5SY4306-7	5SY4306-8	5SY4606-5	5SY4606-6	5SY4606-7	5SY4606-8	5SY4406-5	5SY4406-6	5SY4406-7	5SY4406-8
5SY4308-5	–	5SY4308-7	5SY4308-8	5SY4608-5	–	5SY4608-7	5SY4608-8	5SY4408-5	–	5SY4408-7	5SY4408-8
5SY4310-5	5SY4310-6	5SY4310-7	5SY4310-8	5SY4610-5	5SY4610-6	5SY4610-7	5SY4610-8	5SY4410-5	5SY4410-6	5SY4410-7	5SY4410-8
5SY4313-5	5SY4313-6	5SY4313-7	5SY4313-8	5SY4613-5	5SY4613-6	5SY4613-7	5SY4613-8	5SY4413-5	5SY4413-6	5SY4413-7	5SY4413-8
–	–	5SY4318-7	–	–	–	–	–	–	–	–	–
5SY4316-5	5SY4316-6	5SY4316-7	5SY4316-8	5SY4616-5	5SY4616-6	5SY4616-7	5SY4616-8	5SY4416-5	5SY4416-6	5SY4416-7	5SY4416-8
5SY4320-5	5SY4320-6	5SY4320-7	5SY4320-8	5SY4620-5	5SY4620-6	5SY4620-7	5SY4620-8	5SY4420-5	5SY4420-6	5SY4420-7	5SY4420-8
5SY4325-5	5SY4325-6	5SY4325-7	5SY4325-8	5SY4625-5	5SY4625-6	5SY4625-7	5SY4625-8	5SY4425-5	5SY4425-6	5SY4425-7	5SY4425-8
–	–	5SY4330-7	–	–	–	–	–	–	–	–	–
5SY4332-5	5SY4332-6	5SY4332-7	5SY4332-8	5SY4632-5	5SY4632-6	5SY4632-7	5SY4632-8	5SY4432-5	5SY4432-6	5SY4432-7	5SY4432-8
–	–	5SY4335-7	–	–	–	–	–	–	–	–	–
5SY4340-5	5SY4340-6	5SY4340-7	5SY4340-8	5SY4640-5	5SY4640-6	5SY4640-7	5SY4640-8	5SY4440-5	5SY4440-6	5SY4440-7	5SY4440-8
–	–	5SY4345-7	–	–	–	–	–	–	–	–	–
5SY4350-5	5SY4350-6	5SY4350-7	5SY4350-8	5SY4650-5	5SY4650-6	5SY4650-7	5SY4650-8	5SY4450-5	5SY4450-6	5SY4450-7	5SY4450-8
–	–	5SY4360-7	–	–	–	–	–	–	–	–	–
5SY4363-5	5SY4363-6	5SY4363-7	5SY4363-8	5SY4663-5	5SY4663-6	5SY4663-7	5SY4663-8	5SY4463-5	5SY4463-6	5SY4463-7	5SY4463-8
–	5SY4380-6	5SY4380-7	–	–	–	5SY4680-7	–	–	5SY4480-6	5SY4480-7	–

Accessories

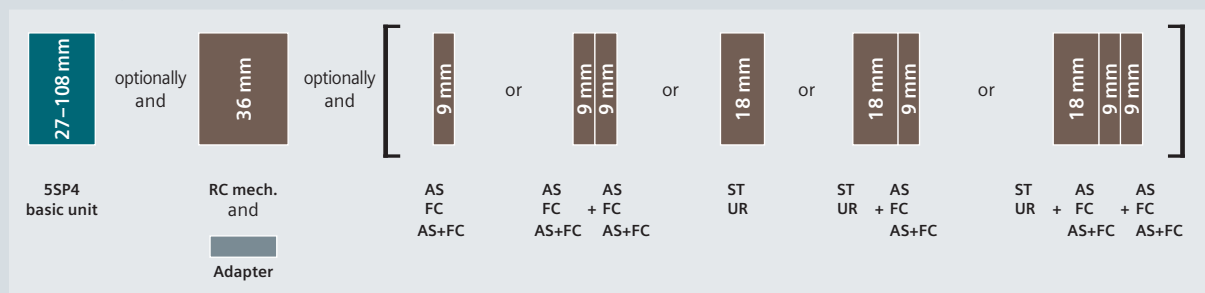
Auxiliary switches (AS)			Arc fault detection devices (AFDD)		
1 NO + 1 NC	Standard	5ST3010	For basic units 1P+N	I_n up to 16 A	5SM6021-2
	For low power	5ST3013	(2 MW)	I_n up to 40 A	5SM6024-2
	For low power (with diode)	5ST3013-0XX01	Undervoltage releases (UR)		
2 NO	Standard	5ST3011	Article No.		
	For low power	5ST3014	With integrated	230 V AC	5ST3040
2 NC	Standard	5ST3012	auxiliary switch	110 V DC	5ST3041
	For low power	5ST3015		24 V DC	5ST3042
1 CO	Standard	5ST3016	Without integrated	230 V AC	5ST3043
Fault signal contacts (FC)			auxiliary switch	110 V DC	5ST3044
1 NO + 1 NC		5ST3020		24 V DC	5ST3045
2 NO		5ST3021	Remote controlled mechanisms (RC mech.)		
2 NC		5ST3022	Article No.		
Auxiliary switches and fault signal contacts (AS+FC)			Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
1 CO (AS) + 1 CO (FC)		5ST3062		177 ... 270 V AC	5ST3054
Shunt trip (ST)			Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
110 ... 415 V AC		5ST3030		177 ... 270 V AC	5ST3056
24 ... 48 V AC/DC		5ST3031	Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
12 V DC new		5ST3031-0XX01		177 ... 270 V AC	5ST3058
			Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
			Adapters for remote controlled mechanisms (RC mech.)		
			Article No.		
			1–2 MW		5ST3820-1
			3–4 MW		5ST3820-2

5SP4 miniature circuit breakers

10 kA

Mounting width	1P 230/400 V AC			2P 400 V AC		
	1.5 MW			3 MW		
						
Rated current I _n	Characteristic			Characteristic		
	B	C	D	B	C	D
80 A	5SP4180-6	5SP4180-7	5SP4180-8	5SP4280-6	5SP4280-7	5SP4280-8
100 A	5SP4191-6	5SP4191-7	5SP4191-8	5SP4291-6	5SP4291-7	5SP4291-8
125 A	5SP4192-6	5SP4192-7	–	5SP4292-6	5SP4292-7	–

Mounting concept



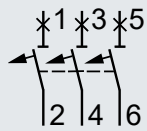
AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 ST Shunt trip
 UR Undervoltage releases
 RC mech. Remote controlled mechanisms

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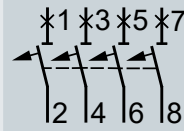
3P
400 V AC

4.5 MW



4P
400 V AC

6 MW



Characteristic

B	C	D
5SP4380-6	5SP4380-7	5SP4380-8
5SP4391-6	5SP4391-7	5SP4391-8
5SP4392-6	5SP4392-7	–

Characteristic

B	C	D
5SP4480-6	5SP4480-7	5SP4480-8
5SP4491-6	5SP4491-7	5SP4491-8
5SP4492-6	5SP4492-7	–

3

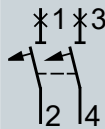
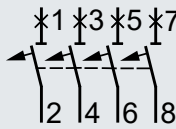
Accessories

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

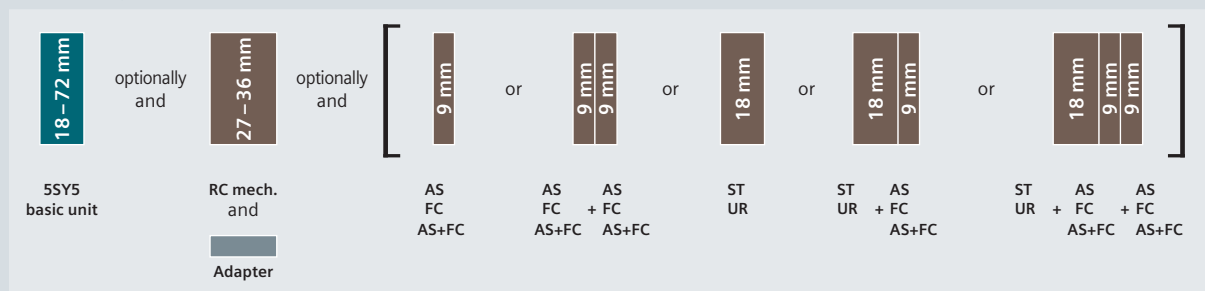
Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC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

5SY5 miniature circuit breakers

10 kA

	1P 230/400 V AC, 220 V DC	2P 400 V AC, 440 V DC	4P 400 V AC, 880 V DC			
Mounting width	1 MW 	2 MW 	4 MW 			
Rated current I _n	Characteristic		Characteristic		Characteristic	
	B	C	B	C	B	C
0.3 A	–	5SY5114-7	–	5SY5214-7	–	5SY5414-7
0.5 A	–	5SY5105-7	–	5SY5205-7	–	5SY5405-7
1 A	–	5SY5101-7	–	5SY5201-7	–	5SY5401-7
1.6 A	–	5SY5115-7	–	5SY5215-7	–	5SY5415-7
2 A	5SY5102-6	5SY5102-7	–	5SY5202-7	–	5SY5402-7
3 A	–	5SY5103-7	–	5SY5203-7	–	5SY5403-7
4 A	5SY5104-6	5SY5104-7	–	5SY5204-7	–	5SY5404-7
6 A	5SY5106-6	5SY5106-7	5SY5206-6	5SY5206-7	5SY5406-6	5SY5406-7
8 A	–	5SY5108-7	–	5SY5208-7	–	5SY5408-7
10 A	5SY5110-6	5SY5110-7	5SY5210-6	5SY5210-7	5SY5410-6	5SY5410-7
13 A	5SY5113-6	5SY5113-7	5SY5213-6	5SY5213-7	5SY5413-6	5SY5413-7
16 A	5SY5116-6	5SY5116-7	5SY5216-6	5SY5216-7	5SY5416-6	5SY5416-7
20 A	5SY5120-6	5SY5120-7	5SY5220-6	5SY5220-7	5SY5420-6	5SY5420-7
25 A	5SY5125-6	5SY5125-7	5SY5225-6	5SY5225-7	5SY5425-6	5SY5425-7
32 A	5SY5132-6	5SY5132-7	5SY5232-6	5SY5232-7	5SY5432-6	5SY5432-7
40 A	5SY5140-6	5SY5140-7	5SY5240-6	5SY5240-7	5SY5440-6	5SY5440-7
50 A	5SY5150-6	5SY5150-7	5SY5250-6	5SY5250-7	5SY5450-6	5SY5450-7
63 A	5SY5163-6	5SY5163-7	5SY5263-6	5SY5263-7	5SY5463-6	5SY5463-7

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 ST Shunt trip
 UR Undervoltage releases
 RC mech. Remote controlled mechanisms

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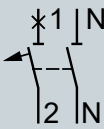
Accessories

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

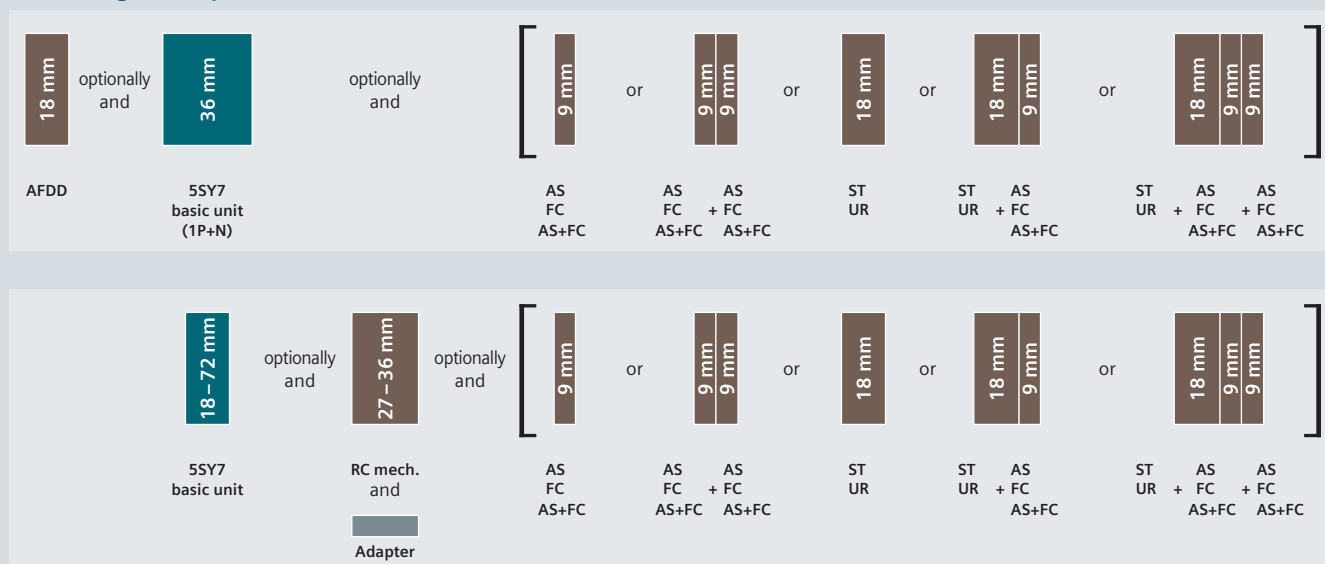
Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC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

5SY7 miniature circuit breakers

15 kA

	1P 230/400 V AC	1P+N 230 V AC	2P 400 V AC						
Mounting width	1 MW 	2 MW 	2 MW 						
Main MCB, line side of meter	Characteristic								
	B	C	D						
–	–	5SY7114-7	5SY7114-8	–	5SY7514-7	5SY7514-8	–	5SY7214-7	5SY7214-8
–	–	5SY7105-7	5SY7105-8	–	5SY7505-7	5SY7505-8	–	5SY7205-7	5SY7205-8
–	–	5SY7101-7	5SY7101-8	–	5SY7501-7	5SY7501-8	–	5SY7201-7	5SY7201-8
–	–	5SY7115-7	5SY7115-8	–	5SY7515-7	5SY7515-8	–	5SY7215-7	5SY7215-8
–	–	5SY7102-7	5SY7102-8	–	5SY7502-7	5SY7502-8	–	5SY7202-7	5SY7202-8
–	–	5SY7103-7	5SY7103-8	–	5SY7503-7	5SY7503-8	–	5SY7203-7	5SY7203-8
–	–	5SY7104-7	5SY7104-8	–	5SY7504-7	5SY7504-8	–	5SY7204-7	5SY7204-8
–	5SY7106-6	5SY7106-7	5SY7106-8	5SY7506-6	5SY7506-7	5SY7506-8	5SY7206-6	5SY7206-7	5SY7206-8
■	5SY7106-6KK13	–	–	–	–	–	–	–	–
–	–	5SY7108-7	5SY7108-8	–	5SY7508-7	5SY7508-8	–	5SY7208-7	5SY7208-8
–	5SY7110-6	5SY7110-7	5SY7110-8	5SY7510-6	5SY7510-7	5SY7510-8	5SY7210-6	5SY7210-7	5SY7210-8
■	5SY7110-6KK13	–	–	–	–	–	–	–	–
–	5SY7113-6	5SY7113-7	5SY7113-8	5SY7513-6	5SY7513-7	5SY7513-8	5SY7213-6	5SY7213-7	5SY7213-8
–	5SY7116-6	5SY7116-7	5SY7116-8	5SY7516-6	5SY7516-7	5SY7516-8	5SY7216-6	5SY7216-7	5SY7216-8
–	5SY7120-6	5SY7120-7	5SY7120-8	5SY7520-6	5SY7520-7	5SY7520-8	5SY7220-6	5SY7220-7	5SY7220-8
–	5SY7125-6	5SY7125-7	5SY7125-8	5SY7525-6	5SY7525-7	5SY7525-8	5SY7225-6	5SY7225-7	5SY7225-8
–	5SY7132-6	5SY7132-7	5SY7132-8	5SY7532-6	5SY7532-7	5SY7532-8	5SY7232-6	5SY7232-7	5SY7232-8
–	5SY7140-6	5SY7140-7	5SY7140-8	5SY7540-6	5SY7540-7	5SY7540-8	5SY7240-6	5SY7240-7	5SY7240-8
–	5SY7150-6	5SY7150-7	5SY7150-8	5SY7550-6	5SY7550-7	5SY7550-8	5SY7250-6	5SY7250-7	5SY7250-8
–	5SY7163-6	5SY7163-7	5SY7163-8	5SY7563-6	5SY7563-7	5SY7563-8	5SY7263-6	5SY7263-7	5SY7263-8

Mounting concept



AFDD Arc fault detection devices [See page 3/50](#)
 AS Auxiliary switches [See page 3/44](#)
 FC Fault signal contacts [See page 3/45](#)

AS+FC Auxiliary switches and fault signal contacts [See page 3/46](#)
 ST Shunt trips [See page 3/47](#)

UR Undervoltage releases [See page 3/48](#)
 RC mech. Remote controlled mechanisms [See page 3/49](#)



3P 400 V AC 3 MW			3P+N 400 V AC 4 MW			4P 400 V AC 4 MW		
Characteristic			Characteristic			Characteristic		
B	C	D	B	C	D	B	C	D
–	5SY7314-7	5SY7314-8	–	5SY7614-7	5SY7614-8	–	5SY7414-7	5SY7414-8
–	5SY7305-7	5SY7305-8	–	5SY7605-7	5SY7605-8	–	5SY7405-7	5SY7405-8
–	5SY7301-7	5SY7301-8	–	5SY7601-7	5SY7601-8	–	5SY7401-7	5SY7401-8
–	5SY7315-7	5SY7315-8	–	5SY7615-7	5SY7615-8	–	5SY7415-7	5SY7415-8
–	5SY7302-7	5SY7302-8	–	5SY7602-7	5SY7602-8	–	5SY7402-7	5SY7402-8
–	5SY7303-7	5SY7303-8	–	5SY7603-7	5SY7603-8	–	5SY7403-7	5SY7403-8
–	5SY7304-7	5SY7304-8	–	5SY7604-7	5SY7604-8	–	5SY7404-7	5SY7404-8
5SY7306-6	5SY7306-7	5SY7306-8	5SY7606-6	5SY7606-7	5SY7606-8	5SY7406-6	5SY7406-7	5SY7406-8
–	–	–	–	–	–	–	–	–
–	5SY7308-7	5SY7308-8	–	5SY7608-7	5SY7608-8	–	5SY7408-7	5SY7408-8
5SY7310-6	5SY7310-7	5SY7310-8	5SY7610-6	5SY7610-7	5SY7610-8	5SY7410-6	5SY7410-7	5SY7410-8
–	–	–	–	–	–	–	–	–
5SY7313-6	5SY7313-7	5SY7313-8	5SY7613-6	5SY7613-7	5SY7613-8	5SY7413-6	5SY7413-7	5SY7413-8
5SY7316-6	5SY7316-7	5SY7316-8	5SY7616-6	5SY7616-7	5SY7616-8	5SY7416-6	5SY7416-7	5SY7416-8
5SY7320-6	5SY7320-7	5SY7320-8	5SY7620-6	5SY7620-7	5SY7620-8	5SY7420-6	5SY7420-7	5SY7420-8
5SY7325-6	5SY7325-7	5SY7325-8	5SY7625-6	5SY7625-7	5SY7625-8	5SY7425-6	5SY7425-7	5SY7425-8
5SY7332-6	5SY7332-7	5SY7332-8	5SY7632-6	5SY7632-7	5SY7632-8	5SY7432-6	5SY7432-7	5SY7432-8
5SY7340-6	5SY7340-7	5SY7340-8	5SY7640-6	5SY7640-7	5SY7640-8	5SY7440-6	5SY7440-7	5SY7440-8
5SY7350-6	5SY7350-7	5SY7350-8	5SY7650-6	5SY7650-7	5SY7650-8	5SY7450-6	5SY7450-7	5SY7450-8
5SY7363-6	5SY7363-7	5SY7363-8	5SY7663-6	5SY7663-7	5SY7663-8	5SY7463-6	5SY7463-7	5SY7463-8

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

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

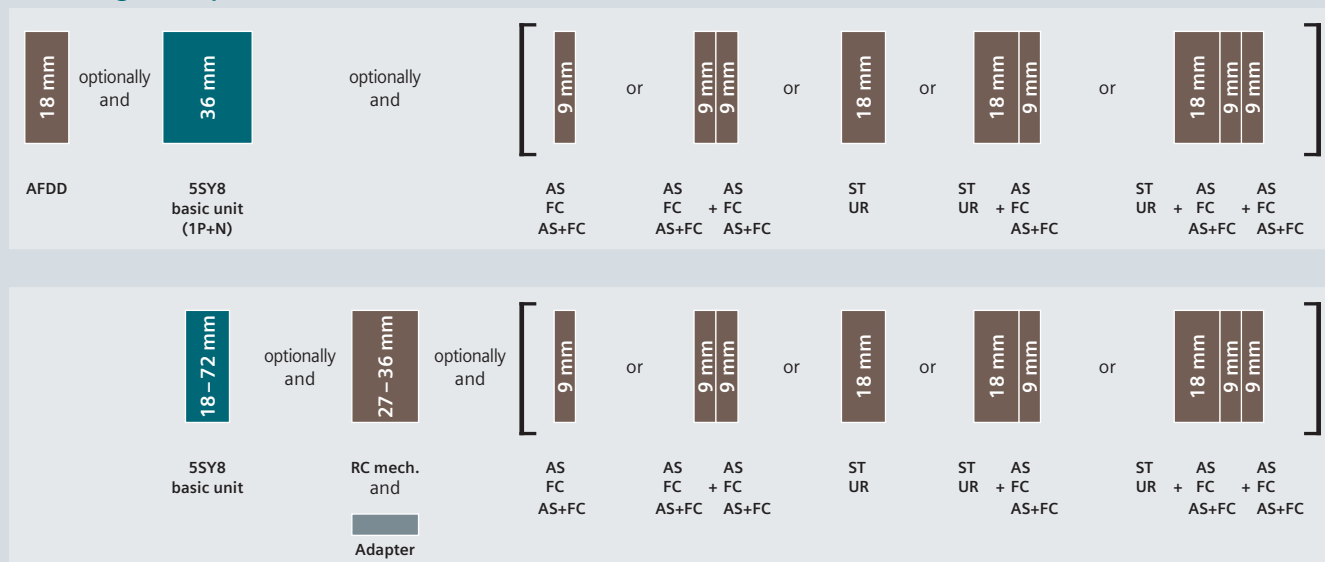
5SY8 miniature circuit breakers

25 kA

3

	1P 230/400 V AC		1P+N 230 V AC		2P 400 V AC		3P 400 V AC	
Mounting width	1 MW		2 MW		2 MW		3 MW	
Rated current I _n	Characteristic		Characteristic		Characteristic		Characteristic	
	C	D	C	D	C	D	C	D
0.3 A	5SY8114-7	5SY8114-8	5SY8514-7	5SY8514-8	5SY8214-7	5SY8214-8	5SY8314-7	5SY8314-8
0.5 A	5SY8105-7	5SY8105-8	5SY8505-7	5SY8505-8	5SY8205-7	5SY8205-8	5SY8305-7	5SY8305-8
1 A	5SY8101-7	5SY8101-8	5SY8501-7	5SY8501-8	5SY8201-7	5SY8201-8	5SY8301-7	5SY8301-8
1.6 A	5SY8115-7	5SY8115-8	5SY8515-7	5SY8515-8	5SY8215-7	5SY8215-8	5SY8315-7	5SY8315-8
2 A	5SY8102-7	5SY8102-8	5SY8502-7	5SY8502-8	5SY8202-7	5SY8202-8	5SY8302-7	5SY8302-8
3 A	5SY8103-7	5SY8103-8	5SY8503-7	5SY8503-8	5SY8203-7	5SY8203-8	5SY8303-7	5SY8303-8
4 A	5SY8104-7	5SY8104-8	5SY8504-7	5SY8504-8	5SY8204-7	5SY8204-8	5SY8304-7	5SY8304-8
6 A	5SY8106-7	5SY8106-8	5SY8506-7	5SY8506-8	5SY8206-7	5SY8206-8	5SY8306-7	5SY8306-8
8 A	5SY8108-7	5SY8108-8	5SY8508-7	5SY8508-8	5SY8208-7	5SY8208-8	5SY8308-7	5SY8308-8
10 A	5SY8110-7	5SY8110-8	5SY8510-7	5SY8510-8	5SY8210-7	5SY8210-8	5SY8310-7	5SY8310-8
12.5 A	–	–	–	–	–	–	–	–
13 A	5SY8113-7	5SY8113-8	5SY8513-7	5SY8513-8	5SY8213-7	5SY8213-8	5SY8313-7	5SY8313-8
16 A	5SY8116-7	5SY8116-8	5SY8516-7	5SY8516-8	5SY8216-7	5SY8216-8	5SY8316-7	5SY8316-8
20 A	5SY8120-7	5SY8120-8	5SY8520-7	5SY8520-8	5SY8220-7	5SY8220-8	5SY8320-7	5SY8320-8
25 A	5SY8125-7	5SY8125-8	5SY8525-7	5SY8525-8	5SY8225-7	5SY8225-8	5SY8325-7	5SY8325-8
32 A	5SY8132-7	5SY8132-8	5SY8532-7	5SY8532-8	5SY8232-7	5SY8232-8	5SY8332-7	5SY8332-8
40 A	5SY8140-7	5SY8140-8	5SY8540-7	5SY8540-8	5SY8240-7	5SY8240-8	5SY8340-7	5SY8340-8
50 A	5SY8150-7	5SY8150-8	5SY8550-7	5SY8550-8	5SY8250-7	5SY8250-8	5SY8350-7	5SY8350-8
63 A	5SY8163-7	5SY8163-8	5SY8563-7	5SY8563-8	5SY8263-7	5SY8263-8	5SY8363-7	5SY8363-8

Mounting concept



AFDD Arc fault detection devices [See page 3/50](#)
 AS Auxiliary switches [See page 3/44](#)
 FC Fault signal contacts [See page 3/45](#)

AS+FC Auxiliary switches and fault signal contacts [See page 3/46](#)
 ST Shunt trips [See page 3/47](#)

UR Undervoltage releases [See page 3/48](#)
 RC mech. Remote controlled mechanisms [See page 3/49](#)



3P+N 400 V AC 4 MW		4P 400 V AC 4 MW	
Characteristic		Characteristic	
C	D	C	D
5SY8614-7	5SY8614-8	5SY8414-7	5SY8414-8
5SY8605-7	5SY8605-8	5SY8405-7	5SY8405-8
5SY8601-7	5SY8601-8	5SY8401-7	5SY8401-8
5SY8615-7	5SY8615-8	5SY8415-7	5SY8415-8
5SY8602-7	5SY8602-8	5SY8402-7	5SY8402-8
5SY8603-7	5SY8603-8	5SY8403-7	5SY8403-8
5SY8604-7	5SY8604-8	5SY8404-7	5SY8404-8
5SY8606-7	5SY8606-8	5SY8406-7	5SY8406-8
5SY8608-7	5SY8608-8	5SY8408-7	5SY8408-8
5SY8610-7	5SY8610-8	5SY8410-7	5SY8410-8
–	–	–	–
5SY8613-7	5SY8613-8	5SY8413-7	5SY8413-8
5SY8616-7	5SY8616-8	5SY8416-7	5SY8416-8
5SY8620-7	5SY8620-8	5SY8420-7	5SY8420-8
5SY8625-7	5SY8625-8	5SY8425-7	5SY8425-8
5SY8632-7	5SY8632-8	5SY8432-7	5SY8432-8
5SY8640-7	5SY8640-8	5SY8440-7	5SY8440-8
5SY8650-7	5SY8650-8	5SY8450-7	5SY8450-8
5SY8663-7	5SY8663-8	5SY8463-7	5SY8463-8

Accessories

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

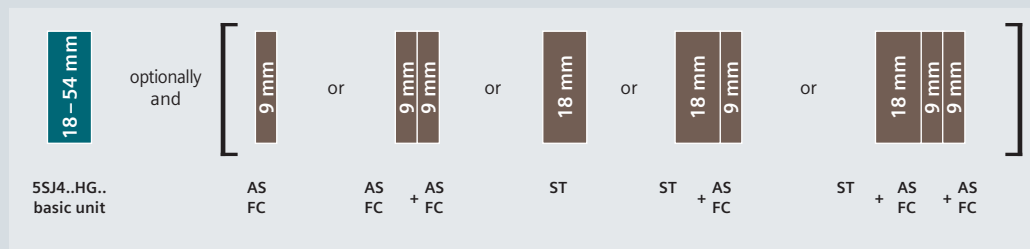
Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC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

5SJ4..HG.. miniature circuit breakers

According to UL489, 14/10 kA

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

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 ST Shunt trip

[See page 3/44](#)
[See page 3/45](#)
[See page 3/47](#)



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

Accessories

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

5SY17 device protection switches

Electromechanical

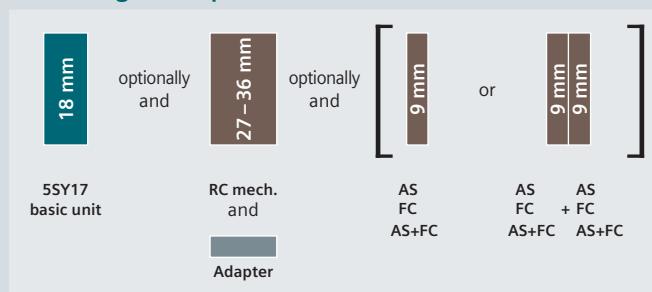


Mounting width

1P+AS	
230 V AC/60 V DC	230 V AC/60 V DC
1 MW (18 mm)	
	

Rated current I_n	Characteristic	
	F1 (quick)	F2 (slow)
0.5 A	5SY1705-2	5SY1705-4
1 A	5SY1701-2	5SY1701-4
2 A	5SY1702-2	5SY1702-4
4 A	5SY1704-2	5SY1704-4
6 A	5SY1706-2	5SY1706-4
8 A	5SY1708-2	5SY1708-4
10 A	5SY1710-2	5SY1710-4
16 A	5SY1716-2	5SY1716-4

Mounting concept



AS Auxiliary switches
 FC Fault signal contacts
 AS+FC Auxiliary switches and fault signal contacts
 RC mech. Remote controlled mechanisms

[See page 3/44](#)
[See page 3/45](#)
[See page 3/46](#)
[See page 3/49](#)

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
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1 MW		5ST3820-6

5SK9 device protection switches

Electronic



Mounting width	1P+AS
	24 V DC
	6.2 mm

Rated current I_n	
1 A	5SK9101-1
2 A	5SK9102-1
3 A	5SK9103-1
4 A	5SK9104-1
6 A	5SK9106-1
8 A	5SK9108-1

3

Specific accessories

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

General accessories, page 14/57 onwards

Overview of the modular system

Miniature circuit breakers



5SL3

5SL6

5SL4

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

Shunt trip (ST)



	Article No.
110 ... 415 V AC	5ST3030
24 ... 48 V AC/DC	5ST3031
12 V DC new	5ST3031-0XX01

Undervoltage releases (UR)



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

Remote controlled mechanisms (RC mech.)



		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070

5SM6 arc fault detection devices



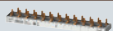
		Article No.
Rated current up to 16 A	Standard	5SM6021-2
	For compact devices 1P+N in 1 MW	5SM6011-2
Rated current up to 40 A	Standard	5SM6024-2
	For compact devices 1P+N in 1 MW	5SM6014-2

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

Miniature circuit breakers						Device protection switches	Residual current protective devices							Arc fault detection devices		Switching devices	
																	
5SJ6...-.KS	5SL30	5SL60	5SY	5SP4	5SJ4..HG..	5SY17	5SV	5SM3	5SM2	5SM2 (100 A)	5SU1	5SU1 (125 A)	5SV1	5SM6	5SV6	5TE8	5TL
-	■	■	■	■	...-OHG	■	■	-	■	■	■	■	■	□	■	■	■
-	■	■	■	■	-	■	■	-	■	■	■	■	■	□	■	■	■
-	■	■	■	■	...-OHG	■	■	-	■	■	■	■	■	□	■	■	■
-	■	■	■	■	-	■	■	-	■	■	■	■	■	□	■	■	■
-	■	■	■	■	...-OHG	■	■	-	■	■	■	■	■	□	■	■	■
-	■	■	■	■	-	■	■	-	■	■	■	■	■	□	■	■	■
-	■	■	■	■	-	■	■	-	■	■	■	■	■	□	■	■	■
-	■	■	■	■	...-OHG	■	■	-	■	■	■	■	■	□	■	-	-
-	■	■	■	■	...-OHG	■	■	-	■	■	■	■	■	□	■	-	-
-	■	■	■	■	...-OHG	■	■	-	■	■	■	■	■	□	■	-	-
-	■	■	■	■	-	■	■	-	■	■	■	■	■	□	■	-	-
-	-	-	■	■	...-OHG	-	■	-	■	■	■	■	-	□	-	-	-
-	-	-	■	■	...-OHG	-	■	-	■	■	■	■	-	□	-	-	-
-	-	-	■	■	-	-	■	-	■	■	■	■	-	□	-	-	-
-	-	-	■	■	-	-	■	-	■	■	■	■	-	□	-	-	-
-	-	-	■	■	-	-	■	-	■	■	■	■	-	□	-	-	-
-	-	□	□	■	-	■	-	-	-	-	■	-	■	-	-	-	■
-	-	□	□	■	-	■	■	-	-	-	■	-	■	-	-	-	■
-	-	□	□	■	-	■	■	-	■	-	■	-	■	-	-	-	■
-	-	□	□	■	-	■	■	-	■	-	■	-	■	-	-	-	■
-	-	□	□	■	-	■	■	-	■	-	■	-	■	-	-	-	■
-	-	□	□	■	-	■	■	-	■	-	■	-	■	-	-	-	■
-	-	-	□	-	-	-	-	-	-	-	■	-	■	-	-	-	-
-	-	□	-	-	-	-	-	-	-	-	-	-	■	-	-	-	-
-	-	-	□	-	-	-	-	-	-	-	■	-	■	-	-	-	-
-	-	□	-	-	-	-	-	-	-	-	-	-	■	-	-	-	-
■	■	■	■	■	■	■	■	-	■	■	■	■	■	□	■	□	■
■	■	■	■	■	■	■	■	-	■	■	■	■	■	□	■	□	■
-	■	■	-	-	-	■	■	-	-	-	-	-	■	■	■	-	-
-	■	■	-	-	-	-	■	-	-	-	-	-	■	■	■	-	-
From page 3/18						From page 3/40		From page 4/16						From page 4/52		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	Device protection switches	RCCBs	RCBOs	Arc fault detection devices	ON/OFF switches				
Auxiliary switches (AS)									
5SL, 5SY, 5SP4	5SY17	5SV	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
Auxiliary switches (AS) with TEST button									
5SL, 5SY, 5SP4	5SY17	5SV	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
Auxiliary switches (AS) acc. to UL 489									
5SJ4....HG	–	–	–	–	–	1 NO + 1 NC	Standard	0.5 MW	5ST3010-OHG
						2 NO	Standard	0.5 MW	5ST3011-OHG
						2 NC	Standard	0.5 MW	5ST3012-OHG

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications		5ST3010, 5ST3010-2 5ST3011, 5ST3011-2 5ST3012, 5ST3012-2	5ST3013, 5ST3014 5ST3015, 5ST3016 5ST3013-0XX01	5ST3013-2 5ST3014-2 5ST3015-2	5ST3010-0HG 5ST3011-0HG 5ST3012-0HG
Standards					
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1			–
	UL, CSA	UL 1077, CSA C22.2 No. 235			UL 489, UL-File E321559, CSA 22.2 No. 5-02
Contacts					
Minimum contact load		50 mA, 24 V	1 mA, 5 V DC	5 mA, 5 V DC	50 mA, 24 V
Maximum contact load		–	100 mA, 30 V DC	30 mA, 30 V DC	–
Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-13	6 A	–	–	6 A
	400 V AC, AC-14	2 A	–	–	2 A
	24 V DC, DC-13	6 A	–	–	6 A (3 A)
	60 V DC, DC-13	3 A	–	–	3 A (1.5 A)
	110 V DC, DC-13	1 A	–	–	1 A (0.75 A)
	220 V DC, DC-13	1 A	–	–	1 A (0.5 A)
Contact load acc. to UL	120 V AC	–	–	–	6 A
	240 V AC	–	–	–	4 A
	277 V AC	–	–	–	3 A
	480 V AC	–	–	–	1.5 A
	60 V DC	–	–	–	3 A
	125 V DC	–	–	–	1 A
Service life, on average, with rated load	Actuations	20000	20000	20000	12000
Safety					
Short-circuit protection		Miniature circuit breaker or gG 6 A fuse			
Connections					
Conductor cross-sections		0.5 ... 2.5 mm² (AWG 22 ... 14)			
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)			
Ambient conditions					
Permissible ambient temperature		–25 ... +55 °C			
Permissible storage temperature		–40 ... +75 °C			
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles			
Mounting position		Any			
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s²			
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²			

Electrical accessories



Fault signal contacts (FC)

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

For combining with basic units					Contacts	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	Device protection switches	RCCBs	RCCBs	Arc fault detection devices			
Fault signal contacts (FC)							
5SL, 5SY, 5SP4	5SY17	5SV	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 button							
5SL, 5SY, 5SP4	5SY17	5SV	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
Fault signal contacts (FC) acc. to UL 489							
5SJ4...-HG	–	–	–	–	1 NO + 1 NC	0.5 MW	5ST3020-0HG
					2 NO	0.5 MW	5ST3021-0HG
					2 NC	0.5 MW	5ST3022-0HG

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST3020, 5ST3020-2
5ST3021, 5ST3021-2
5ST3022, 5ST3022-2

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

Standards			
Standards	IEC/EN	IEC/EN 62019, IEC/EN 60947-5-1	IEC/EN 62019, IEC/EN 60947-5-1
	UL, CSA	UL 1077, CSA C22.2 No. 235	UL 489, UL-File E321559, CSA 22.2 No. 5-02
Contacts			
Minimum contact load		50 mA, 24 V	
Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-13	6 A	6 A
	400 V AC, AC-14	2 A	2 A
	24 V DC, DC-13	6 A	6 A (3 A)
	60 V DC, DC-13	3 A	3 A (1.5 A)
	110 V DC, DC-13	1 A	1 A (0.75 A)
	220 V DC, DC-13	1 A	1 A (0.5 A)
Contact load acc. to UL	120 V AC	–	6 A
	240 V AC	–	4 A
	277 V AC	–	3 A
	480 V AC	–	1.5 A
	60 V DC	–	3 A
	125 V DC	–	1 A
Service life, on average, with rated load	Actuations	20000	12000
Safety			
Short-circuit protection		Miniature circuit breaker or gG 6 A fuse	
Connections			
Conductor cross-sections		0.5 ... 2.5 mm² (AWG 22 ... 14)	
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)	
Ambient conditions			
Permissible ambient temperature		–25 ... +55 °C	
Permissible storage temperature		–40 ... +75 °C	
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles	
Mounting position		Any	
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s²	
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²	

Electrical accessories

Auxiliary switches and fault signal contacts (AS+FC)



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

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

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST3062

Standards		
Standards	IEC/EN 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 acc. to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-13 400 V AC, AC-14	6 A 2 A
Contact load acc. to IEC/EN 62019 (acc. to IEC/EN 60947-5-1)	24 V DC, DC-13 60 V DC, DC-13 110 V DC, DC-13 220 V DC, DC-13	3 A (3 A) 3 A (1 A) 0.5 A (0.5 A) 0.5 A (0.3 A)
Service life, on average, with rated load	Actuations	20000
Safety		
Short-circuit protection		Miniature circuit breaker or gG 6 A fuse
Connections		
Conductor cross-sections		0.5 ... 2.5 mm ² (AWG 22 ... 14)
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)
Ambient conditions		
Permissible ambient temperature		–25 ... +55 °C
Permissible storage temperature		–40 ... +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles
Mounting position		Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s ²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²



Shunt trip (ST)

- For remote-controlled tripping of the mounted device

For combining with basic units			Rated voltage U _n	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	RCCBs	RCBOs			
Shunt trip (ST)					
5SL4, 5SY, 5SP	5SV	5SU1 ¹⁾	110 ... 415 V AC	1 MW	5ST3030
			24 ... 48 V AC/DC	1 MW	5ST3031
			12 V DC new	1 MW	5ST3031-0XX01
Shunt trip (ST) acc. to UL 489					
5SJ4...-HG	–	–	110 ... 480 V AC	1 MW	5ST3030-0HG
			24 ... 60 V AC/DC	1 MW	5ST3031-0HG

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

Further technical specifications		5ST3030	5ST3031	5ST3031-0XX01	5ST3030-0HG	5ST3031-0HG
Standards						
Standards	IEC/EN	EN 60947-1	EN 60947-1	EN 60947-1	IEC/EN 60947-1	
	UL, CSA	–	–	–	UL 489, UL-File E321559, CSA 22.2 No. 5-02	
Supply						
Primary operating range		0.7 ... 1.1 × U _n	0.7 ... 1.1 × U _n	0.7 ... 1.1 × U _n	0.7 ... 1.1 × U _n	0.7 ... 1.1 × U _n
Rated frequency f _n		50 ... 60 Hz	50 ... 60 Hz	–	50 ... 60 Hz	50 ... 60 Hz
Contacts						
Minimum contact load		50 mA, 24 V	50 mA, 24 V	1 mA, 5 V	50 mA, 24 V	50 mA, 24 V
Tripping operations		Max. 2000	Max. 2000	Max. 2000	Max. 2000	Max. 2000
Service life, on average, with rated load	Actuations	20000	20000	20000	12000	12000
Safety						
Short-circuit protection		Miniature circuit breaker B/C 6 A or fuse gG 6 A				
Connections						
Conductor cross-sections		0.5 ... 2.5 mm² (AWG 22 ... 14)				
Terminals	Max. tightening torque	0.8 Nm (6.8 lb-in)				
Ambient conditions						
Permissible ambient temperature		–25 ... +55 °C	–25 ... +55 °C	–40 ... +70 °C	–25 ... +55 °C	–25 ... +55 °C
Permissible storage temperature		–40 ... +75 °C	–40 ... +75 °C	–40 ... +75 °C	–40 ... +75 °C	–40 ... +75 °C
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles	28 cycles	28 cycles	28 cycles	28 cycles
Mounting position		Any	Any	Any	Any	Any
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	50 m/s²	50 m/s²	50 m/s²	50 m/s²	50 m/s²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s²	50 m/s²	50 m/s²	50 m/s²	50 m/s²

Electrical accessories



Undervoltage releases (UR)

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

For combining with basic units			Rated voltage U _n	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	RCCBs	RCBOs			
With integrated auxiliary switch					
5SL4, 5SY, 5SP4	5SV	5SU1 ¹⁾	230 V AC	1 MW	5ST3040
			110 V DC	1 MW	5ST3041
			24 V DC	1 MW	5ST3042
Without integrated auxiliary switch					
5SL4, 5SY, 5SP4	5SV	5SU1 ¹⁾	230 V AC	1 MW	5ST3043
			110 V DC	1 MW	5ST3044
			24 V DC	1 MW	5ST3045

¹⁾ Handle coupler 5ST3805-1 required

Further technical specifications

5ST304.

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



5ST3 remote controlled mechanisms (RC mech.)

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

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

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

Suitable adapters for combination with miniature circuit breakers



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

Electrical accessories



5SM6 arc fault detection devices (AFDD)

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

For combining with basic units			Rated current I _e	Mounting width (1 MW = 18 mm)	Article No.
Width of basic unit	Miniature circuit breakers	RCBOs			
1 MW	5SL60 2-pole (no KL types)	5SV1	Up to 16 A	1 MW	5SM6011-2
			Up to 40 A	1 MW	5SM6014-2
2 MW	5SY ¹⁾ , 5SL4 (1P+N devices only)	5SU1.5	Up to 16 A	1 MW	5SM6021-2
			Up to 40 A	1 MW	5SM6024-2

¹⁾ Not for 5SY5, 5SY8, 5SL60 2-pole

Further technical specifications

5SM6

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

Suitable busbars, page 3/54 onwards

Suitable busbars and end caps, page 3/66 onwards

Mechanical accessories

Mechanical rotary operating mechanisms complete with handle



- For 5SY, but not for 5SYx0 1P+N in 1 MW
- For 5SP4, 5SL, 5TL1, 5TE2, 5TE8, 5SU1

Versions

Handle black

Handle red/yellow

Article No.

5ST3060

5ST3061

Terminal cover



- For miniature circuit breakers, but not for 5SL60..
- For additional covering of the screw openings per pole
- Lockable
- In the case of 5SY, also prevents removal of device from the standard mounting rail

Article No.

5ST3800

Handle locking devices

- To prevent undesired mechanical ON/OFF switching
- Sealable

For miniature circuit breakers

5SP4, 5SY

For padlocks with

Max. 3 mm shackle

Article No.

5ST3801



5SL, 5SV, 5TL1

3 ... 6 mm shackle

5ST3806



Padlocks



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

Article No.

5ST3802

Locking devices

- Comprising 5ST3801 or 5ST3806 handle locking device and 5ST3802 padlock

For miniature circuit breakers

5SP4 and 5SY

Comprising

5ST3801 handle locking device,
5ST3802 padlock

Article No.

5ST3803

5SL, 5SV, 5TL1

5ST3806 handle locking device,
5ST3802 padlock

5ST3807

Spacers



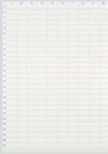
- Can be placed on either side of the standard mounting rail. Two spacers allow for convenient cable routing

Mounting width

0.5 MW

Article No.

5TG8240

Device labels			
	• Adhesive • For modular installation devices, e.g. 5SY, 5SL, 5TL1		
	Versions		Article No.
	15 mm x 6 mm, white (WIN 098)		8WH8210-0AA35
	15 mm x 6 mm, yellow (WIN 099)		8WH8210-0AA36
Terminal covers, gray			
	• For surface mounting, degree of protection IP40 • Sealable • Can be used with 35 mm mounting rail		
	For widths up to		Article No.
	2.5 MW		5SW3004
	4.5 MW		5SW3005
Wall enclosures, gray			
	• For flush mounting, degree of protection IP40 • Can be used with 35 mm mounting rail		
	For widths up to		Article No.
	2.5 MW		5SW3006
	4.5 MW		5SW3007
Molded-plastic enclosures, gray			
	• For surface mounting, degree of protection IP54 • Sealable • Can be used with 35 mm mounting rail • With transparent hinged lid		
	For widths up to		Article No.
	4.5 MW		5SW1200
	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 plate		5ST2134
	Angled profile		5ST2135
	Alternatively flat profile		5ST2136
Holders for front panel installation			
	• Universal use for devices from 1 to 6 MW		
	Cutout height	Cutout width	Article No.
	45 ^{+0,5} mm	23, 41, 59, 77, 95 or 113 mm	7LF9006
Intermediate frames			
	• For 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards		
	Versions		Article No.
	1-tier		8GB4561
	2-tier		8GB4562
	3-tier		8GB4563
	4-tier		8GB4564

Standard busbars

5ST36, fixed length, cannot be cut

For miniature circuit breakers (MCBs)



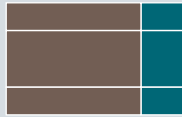
Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section	
				10 mm ²	16 mm ²
Single-phase					
	For 2 MCBs 1P	2 MW	33 mm	5ST3600	5ST3630
	For 6 MCBs 1P	6 MW	105 mm	5ST3601	5ST3631
	For 12 MCBs 1P	12 MW	212 mm	5ST3602	5ST3632
Two-phase				Article No.	Article No.
	For 2 MCBs 2P	4 MW	76 mm	5ST3606	5ST3636
	For 3 MCBs 2P	6 MW	105 mm	5ST3607	5ST3637
	For 6 MCBs 2P	12 MW	210 mm	5ST3608	5ST3638
Three-phase				Article No.	Article No.
	For 2 MCBs 3P	6 MW	102 mm	5ST3613	5ST3643
	For 3 MCBs 3P	9 MW	157.5 mm	5ST3614	5ST3644
	For 4 MCBs 3P	12 MW	210 mm	5ST3615	5ST3645
Combi pack: 20× 5ST3613 + 10× 5ST3614 + 50× 5ST3615 + 50× 5ST3655				5ST3656	—
Combi pack: 20× 5ST3643 + 10× 5ST3644 + 50× 5ST3645 + 50× 5ST3655				—	5ST3657
Four-phase				Article No.	Article No.
	For 2 MCBs 4P or 3P+N	8 MW	138 mm/ 140 mm	5ST3621	5ST3651
	For 3 MCBs 4P or 3P+N	12 MW	210 mm	5ST3622	5ST3652
	For 6 MCBs 2P or 1P+N	12 MW	210 mm	5ST3623	5ST3653

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



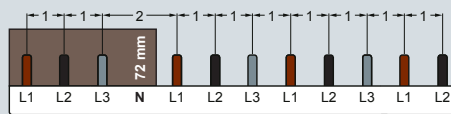
Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length
Single-phase			
	For 2 MCBs 1P	2 MW	40 mm
	For 6 MCBs 1P	6 MW	158 mm
	For 9 MCBs 1P	9 MW	237 mm
Two-phase			
	For 2 MCBs 2P	4 MW	76 mm
	For 3 MCBs 2P	6 MW	121 mm
	For 5 MCBs 2P	10 MW	210 mm
Three-phase			
	For 2 MCBs 3P	6 MW	115 mm
	For 4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

For MCBs with RCCB



Conductor cross-section		Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section	
10 mm ²	16 mm ²					10 mm ²	16 mm ²
Article No.	Article No.						
5ST3603	5ST3633						
5ST3604	5ST3634						
5ST3605	5ST3635						
Article No.	Article No.						
–	5ST3640						
–	5ST3641						
–	5ST3642						
Article No.	Article No.						
5ST3616	5ST3646						
5ST3617	5ST3647						
5ST3618	5ST3648						
5ST3620	5ST3650						

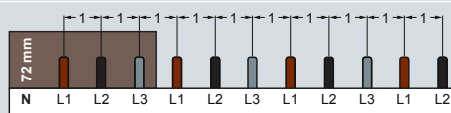
Three-phase

For 8 MCBs 1P with
1 RCCB 3P+N, N right

12 MW 210 mm

Article No. Article No.

5ST3624 5ST3654

For 8 MCBs 1P with
1 RCCB 3P+N, N left

12 MW 192 mm

5ST3667 5ST3668

Accessories

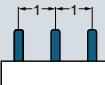
Terminals for 5ST36 and 5ST37		Article No.	Terminals for infeed at side		Article No.
For conductors up to 25 mm ²	Cable entry on the left	5ST3768-4	For conductors up to 25 mm ²	Short	5ST3768
	Cable entry in the center	5ST3768-3		Short, IP20	5ST3771-2
	Cable entry on the right	5ST3768-5	Touch protection		Article No.
For conductors up to 50 mm ²	Cable entry on the left	5ST3760-4	For free connections, yellow (RAL 1004) 5× 1 pin		5ST3655
	Cable entry in the center	5ST3760-3			
	Cable entry on the right	5ST3760-5			

Standard busbars

5ST37, can be cut

For miniature circuit breakers (MCBs)

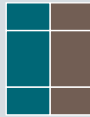


Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Color	Conductor cross-section			
						10 mm ²	16 mm ²		
Single-phase, straight						Article No.	Article No.		
	For MCB 1P+N compact	12 MW	216 mm	■	Gray	5ST3762	–		
					Blue	5ST3687-0	–		
		56 MW	1016 mm	–	Gray	5ST3764	–		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

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



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

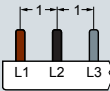
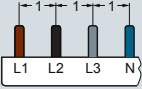
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Standard busbars

5ST37, can be cut

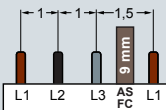
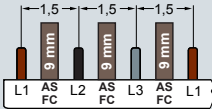
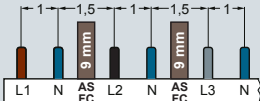
For miniature circuit breakers (MCBs)



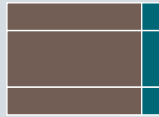
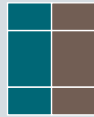
Pin spacing in MW (1 MW = 18 mm)	Applica- tion	No. of MW	Length	End caps incl.	Conductor cross-section	
					10 mm ²	16 mm ²
Three-phase					Article No.	Article No.
	For MCBs 3P	12 MW	214 mm	■	5ST3738	5ST3708
		56 MW	1016 mm	–	5ST3740	5ST3710
Four-phase					Article No.	Article No.
	For MCBs 4P or 3P+N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

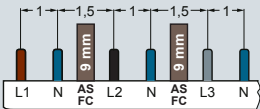
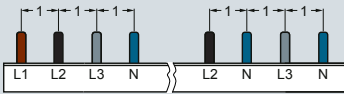
For MCBs equipped with auxiliary switch (AS) ...



Pin spacing in MW (1 MW = 18 mm)	Applica- tion	No. of MW
Three-phase		
	For MCBs 3P	12 MW 56 MW
	For MCBs 1P	12 MW 56 MW
Four-phase		
	For MCBs 1P+N	56 MW

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



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Conductor cross-section 10 mm ²	16 mm ²
Four-phase					Article No.	Article No.
	For RCCBs/MCBs	56 MW	1016 mm	–	5ST3746-2	–
	For 6 MCBs 1P+N with 1 RCCB 3P+N, N right	16 MW	292 mm	■	5ST3770-4	5ST3770-5

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

Touch protection	Article No.
For free connections, yellow (RAL 1004) 5x 1 pin	5ST3655

Standard busbars

5ST37 acc. to UL 508, can be cut

For miniature circuit breakers (MCBs)



3

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

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



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

Accessories

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

Standard busbars

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

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



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

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

Can be cut, for MCBs

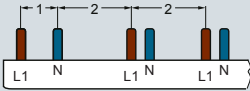
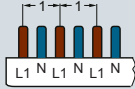
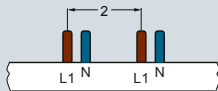
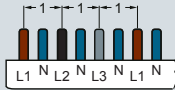
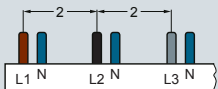


Pin spacing in MW (1 MW = 18 mm)	Application
Single-phase	
	For MCBs 1P
Two-phase	
	For MCBs 2P
Three-phase	
	For MCBs 3P

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

Compact busbars

5ST36, fixed length, cannot be cut

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

5ST37, can be cut

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

Accessories

End caps		Article No.
Two- and three-phase busbars		5ST3788-0
Touch protection		Article No.
For free connections, yellow (RAL 1004)	For pins L1, N	5ST3655
	For pins L2, L3	5ST3655-OHG

Accessories for busbars

General accessories

Terminals



For conductors	Version	Cable entry	Infeed	Article No.
Up to 25 mm ²	Short	–	Side	5ST3768
	Short, IP20	–	Side	5ST3771-2
Up to 25 mm ²	–	Center	–	5ST3768-3
		Left	–	5ST3768-4
		Right	–	5ST3768-5
Up to 30 mm ²	–	–	Busbar	5ST3770-1HG
Up to 35 mm ²	–	–	Device	5ST3770-0HG
Up to 35 mm ²	For 5SJ4...-HG..	–	Miniature circuit breaker	5ST3666-0HG
	For 5ST37...-3HG that can be cut	–	Miniature circuit breaker	5ST3770-3HG
Up to 50 mm ²	–	Center	–	5ST3760-3
		Left	–	5ST3760-4
		Right	–	5ST3760-5
Up to 50 mm ²	–	–	Busbar	5ST3666-2HG

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

Accessories for busbars

General accessories

Touch protection



Version	Scope of supply	Version	Article No.
For free connections, yellow (RAL 1004)	5× 1 pin	–	5ST3655
			5ST3655-0HG
	3× 1 pin	–	5ST3666-1HG
		–	5ST3655-3HG
For 10 mm ² conductors	20× 5ST3613 + 10× 5ST3614 + 50× 5ST3615 + 50× 5ST3655	–	5ST3656
For 16 mm ² conductors	20× 5ST3643 + 10× 5ST3644 + 50× 5ST3645 + 50× 5ST3655	For 5ST337..-3HG	5ST3657

End caps



Version	Color	Article No.
For single-phase busbars	Gray	5ST3748
For two- and three-phase busbars	Gray	5ST3750
For four-phase busbars	Gray	5ST3718
For single-, two- and three-phase busbars	Gray	5ST3750-3HG
–	Gray	5ST3766
–	Blue	5ST3767
For single-phase busbars	Gray	5ST3748-0HG
For two- and three-phase busbars	Gray	5ST3750-0HG
For two- and four-phase compact busbars	Gray	5ST3788-0

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

Accessories for busbars

General accessories

Series connectors



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

3

Distribution blocks for standard rail mounting

Acc. to IEC

Distribution blocks acc. to IEC

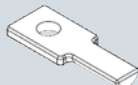


Number of poles	Operational voltage U_e	Rated current I_e	Mounting width	Article No.
4-pole	690 V AC	80 A	5 MW	5ST2501
		125 A	5.5 MW	5ST2502
		160 A	9 MW	5ST2503

Further technical specifications

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

According to IEC and UL

Distribution blocks acc. to IEC and UL					
	Number of poles	Operational voltage U _e	Rated current I _e	Mounting width	Article No.
	1-pole	600 V AC	80 A	1.5 MW	5ST2504
			125 A	1.5 MW	5ST2505
			160 A	2 MW	5ST2507
			250 A	2.5 MW	5ST2508
			350 A	2.5 MW	5ST2511
Connector for 5ST2505 distribution board					
	• Touch protection • 20 mm² • 32 mm				
	Version				Article No.
	Single-phase				5ST2506
Terminal lug for ring terminal ends					
	Versions				Article No.
	For 5ST2508 distribution block				5ST2510
	For 5ST2511 distribution block				5ST2512

Further technical specifications			5ST2504	5ST2505	5ST2507	5ST2508	5ST2511
Standards							
Standards			UL 1059 / UL 486E / IEC 60947-7-1 UL File No. E80027 / XCFR2 C22.2 No. 158 -1987 / XCFR8				
Supply							
Operational voltage		UL	600 V AC				
		IEC	1000/1500 V AC/DC				
Max. rated current		UL	80 A	115 A	160 A	230 A	310 A
		IEC	80 A	125 A	160 A	250 A	400 A
Conductor cross-section							
Inputs per pole	Solid/stranded	Large	3× 2.5 ... 25 mm ²	10 ... 35 mm ²	10 ... 70 mm ²	35 ... 120 mm ²	95 ... 185 mm ²
			AWG 3× 14 ... 4	AWG 1× 8 ... 2	AWG 1× 8 ... 2/0	AWG 1× 2 ... 4/0	AWG 1× 3/0 ... 350 MCM
		Small	–	2.5 ... 25 mm ²	–	–	–
			–	AWG 1× 14 ... 6	–	–	–
	Finely stranded with end sleeve	Large	3× 2.5 ... 16 mm ²	10 ... 35 mm ²	10 ... 50 mm ²	35 ... 95 mm ²	95 ... 150 mm ²
			AWG 3× 14 ... 6	AWG 1× 8 ... 2	AWG 1× 8 ... 1	AWG 1× 2 ... 3/0	AWG 3/0 ... 300 MCM
		Small	–	2.5 ... 25 mm ²	–	–	–
			–	AWG 1× 14 ... 6	–	–	–
Outputs per pole	Solid/stranded	Top	2.5 ... 6 mm ²	2.5 ... 16 mm ²	2.5 ... 16 mm ²	2.5 ... 10 mm ²	2× 2.5... 35 mm ²
			AWG 4× 14 ... 10	AWG 6× 14 ... 4	AWG 6× 14 ... 4	AWG 4× 16 ... 8	AWG 2× 14 ... 2
		Center	–	–	–	2.5 ... 16 mm ²	5× 2.5 ... 16 mm ²
			–	–	–	AWG 5× 14 ... 6	AWG 5× 14 ... 6
		Bottom	2.5 ... 6 mm ²	–	–	2× 2.5... 35 mm ²	4× 2.5 ... 10 mm ²
			AWG 4× 14 ... 10	–	–	AWG 2× 14 ... 2	AWG 4× 14 ... 8
	Finely stranded with end sleeve	Top	2.5 ... 6 mm ²	2.5 ... 16 mm ²	2.5 ... 16 mm ²	2× 2.5... 25 mm ²	2× 2.5... 25 mm ²
			AWG 4× 14 ... 10	AWG 6× 14 ... 6	AWG 6× 14 ... 4	AWG 2× 14 ... 4	AWG 2× 14 ... 4
		Bottom	2.5 ... 6 mm ²	–	–	2× 2.5... 25 mm ²	4× 2.5 ... 25 mm ²
			AWG 4× 14 ... 10	–	–	AWG 2× 14 ... 4	AWG 5× 14 ... 4

Continued on next page

Distribution blocks for standard rail mounting

According to IEC and UL (continued)

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

SIKclip wiring system

SIKclip busbar



Length	Article No.
12 MW	5ST2520
24 MW	5ST2521
36 MW	5ST2522

Connecting cables with plug



Length	Conductor cross-section	Color	Article No.
120 mm	6 mm ²	Black	5ST2523
		Blue	5ST2524
	10 mm ²	Black	5ST2525
		Blue	5ST2526
200 mm	6 mm ²	Black	5ST2527
		Blue	5ST2528
	10 mm ²	Black	5ST2530
		Blue	5ST2531

Crimp connector



For connection to cables 4/6 mm²	Article No.
	5ST2532

Mounting brackets



For mounting on the rear of the standard mounting rail (pair)	Article No.
	5ST2533

Further technical specifications

Standards	
Test specifications	EN 60947-1, EN 61439-1
Rated values	
Rated operational voltage U_n	400 V AC
Max. rated current I_n	250 A
Max. rated output current I_n (at 40 °C ambient temperature)	63 A
Rated insulation voltage	660 V AC
Test voltage (50 Hz)	2.5 kV
Ambient conditions	
Degree of protection	IP20
Connecting cables	40 A (6 mm ²), 63 A (10 mm ²)
Connecting cable type	H07VK
Ambient temperature	-5 ... +60 °C

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