



SIEMENS



SENTRON • SIVACON • ALPHA

Low-Voltage Power Distribution and Electrical Installation Technology

Miniature Circuit Breakers

Catalog
Extract
LV 10

Edition
10/2021

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

Innovative solutions for industrial controls and power distribution

In ensuring smooth operation of digital production environments and in the construction and operation of industrial or commercial buildings, the underlying power distribution and industrial controls are decisive:

SIRIUS, SENTRON, SIVACON and ALPHA provide a broad portfolio of systems and components for this purpose that can be used for standard-compliant, requirement-based electrification.

Efficient engineering tools and cloud-based solutions are part of the portfolio, which you can flexibly adapt to your specific requirements over the entire value-added process.



We are there when you need us

Your personal contact can be found at
www.siemens.com/lowvoltage/contact

Catalog LV 10 · 10/2021

You will find the latest edition and all future editions in the Siemens Industry Online Support at
www.siemens.com/lowvoltage/catalogs

Refer to the Industry Mall for current prices
www.siemens.com/industrymall



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

Technical specifications

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

All illustrations are not binding.

Low-Voltage Power Distribution and Electrical Installation Technology

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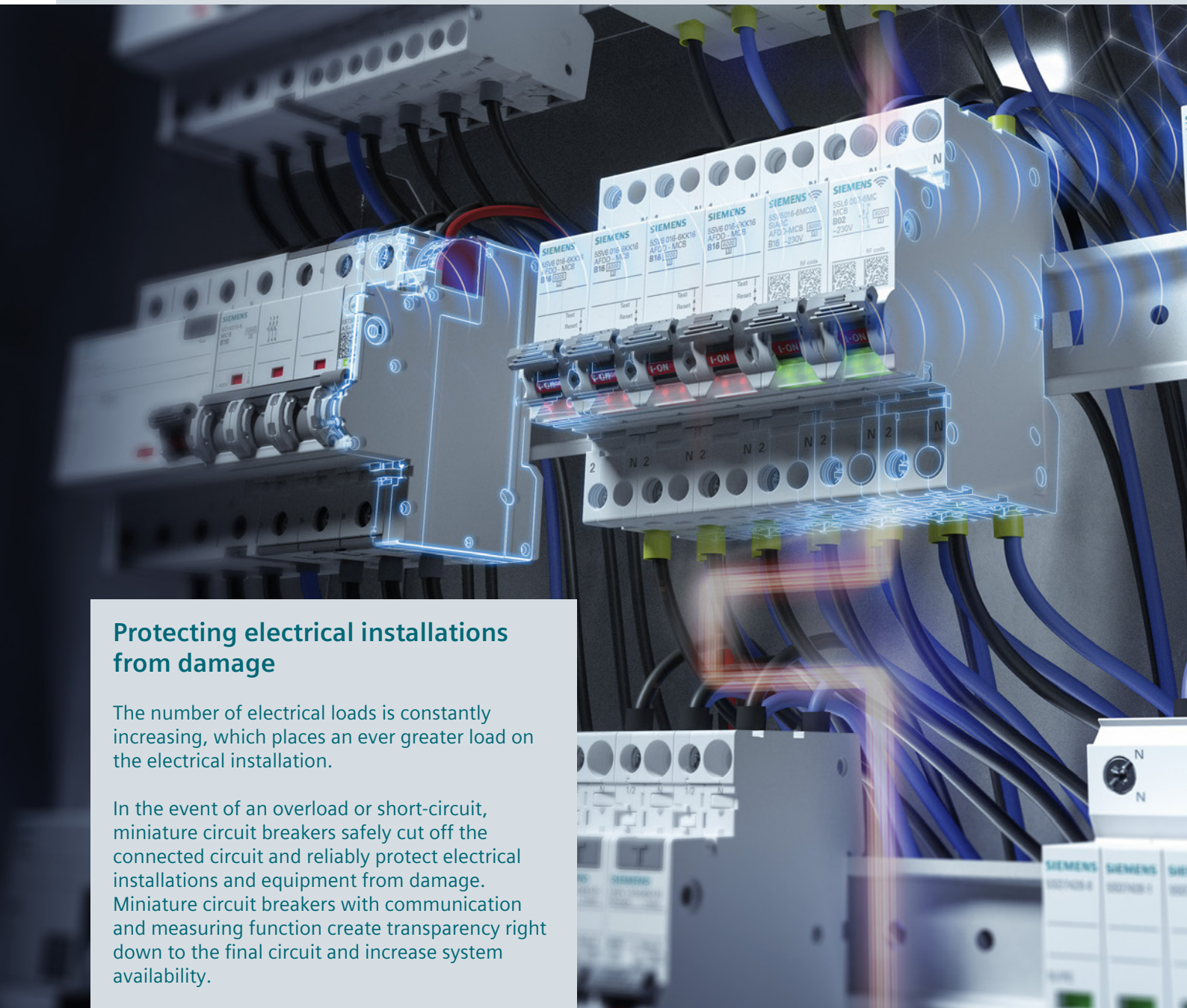
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A



Protecting electrical installations from damage

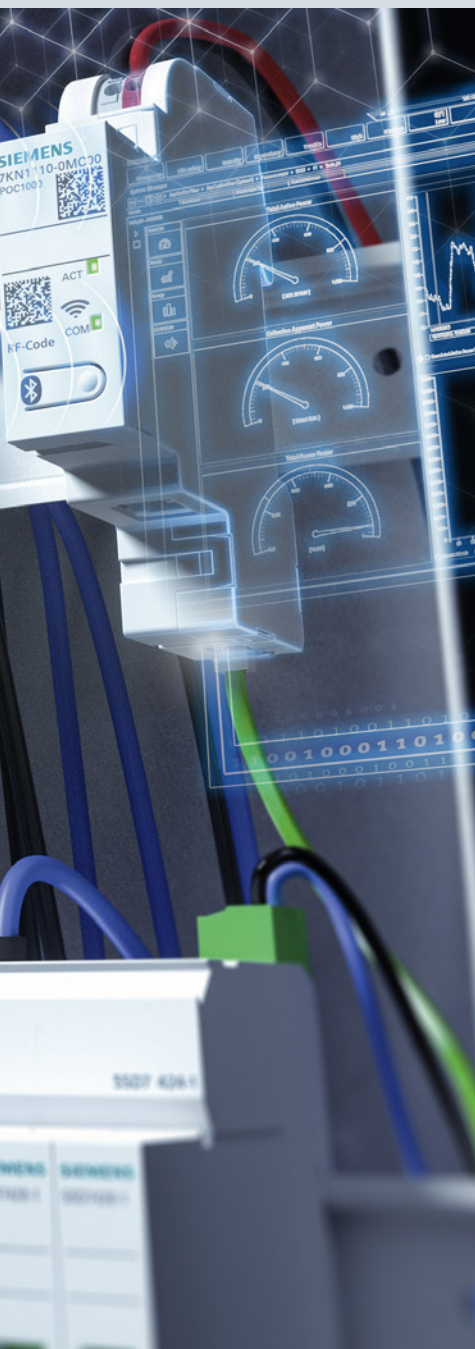
The number of electrical loads is constantly increasing, which places an ever greater load on the electrical installation.

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 with communication and measuring function create transparency right down to the final circuit and increase system availability.

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

For information about miniature circuit breakers, please visit our websites

www.siemens.com/mcb

www.siemens.com/protection-concept

Your product in detail

The Siemens Industry Online Support (SIOS) 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

- 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 number in the catalog or by entering this web address incl. article number www.siemens.com/product?Article No.

The fast track to the experts

Contact persons in your region

We offer a comprehensive portfolio of services.

You can find your local contacts at

www.siemens.com/lowvoltage/components/contact

You can find further information on services at

www.siemens.com/service-catalog

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

Assistance with technical queries is provided at

www.siemens.com/support-request

... can be found in our online services

Commissioning + operation

Your product in detail

The Siemens Industry Online Support (SIOS) provides detailed technical information

www.siemens.com/lowvoltage/product-support

- Operating instructions
- Characteristic curves
- Certificates

Comprehensive mobile support via the Siemens Industry Online Support app available for download from the [App Store](#) and [Play Store](#)

You will find further information under:

www.siemens.com/support-app

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

- Siemens Industry Mall
www.siemens.com/lowvoltage/mall
- Image database
www.siemens.com/lowvoltage/picturedb

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

www.siemens.com/cax

Manuals

Manuals are available for downloading in Siemens Industry Online Support (SIOS) at

www.siemens.com/lowvoltage/manuals

- Configuration manual – Miniature circuit breakers ([45302792](#))
- Installation manual – Circuit protection devices with communication and measuring function ([109791805](#))
- System manual – Circuit protection devices with communication and measuring function ([109791806](#))

Classroom or online training

Our training courses can be found at

www.siemens.com/sitrain-lowvoltage

- SENTRON circuit protection devices with measuring and communication function (WT-LVBCOM)
- Basic principles of electrical engineering (WT-LVBGET)
- Protection concept (WT-LVBPC)

Technical overview – 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

Miniature circuit breakers for basic applications

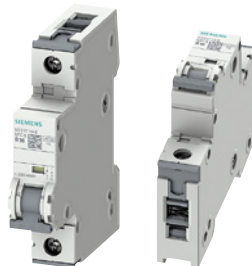


Ideal for standard applications

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
- 5SL60 available as communication-capable miniature circuit breaker

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.

Thermomagnetic 5SY17 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.

Electronic 5SK9 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.

5SL6 COM miniature circuit breakers and 5ST3 COM auxiliary switches/fault signal contacts with communication and measuring functions **new**

The new communication-capable protective devices and auxiliary components record measured values and status information and transmit this data wirelessly to higher-level systems.



5SL6 COM
see page 3/38



5ST3 COM
see page 3/50



7KN POC1000
see page 10/17

- Recording of energy and active power, current, voltage, line frequency and temperature
- Integrated status acquisition, operating hours counter and trip counter
- Higher system availability through early response to warning messages
- Convenient integration into new and existing systems thanks to compact widths of 1 MW
- Fast parameterization and commissioning with the SENTRON powerconfig mobile app or the SENTRON powerconfig software
- Wireless transmission of measurement data from up to 24 communication-capable devices to the 7KN Powercenter 1000 data transceiver, see page 10/16

System overview

Basic units and accessories

Miniature circuit breakers for basic applications



5SL3

5SL6

5SL4

5SJ6...-KS

5SL30

5SL60

5SP3

Miniature circuit breakers for advanced applications



5SY6

5SY4

5SP4

5SY5

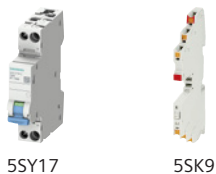
5SY7

5SY8

5SJ4..HG..

5SL6 COM **new**

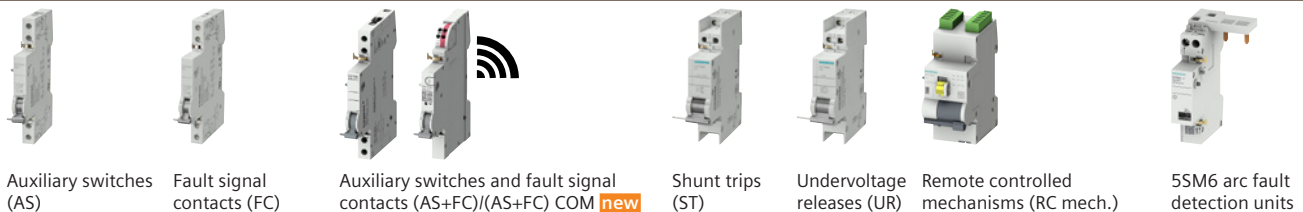
Device protection switches for advanced applications



5SY17

5SK9

Electrical accessories



Auxiliary switches (AS)

Fault signal contacts (FC)

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

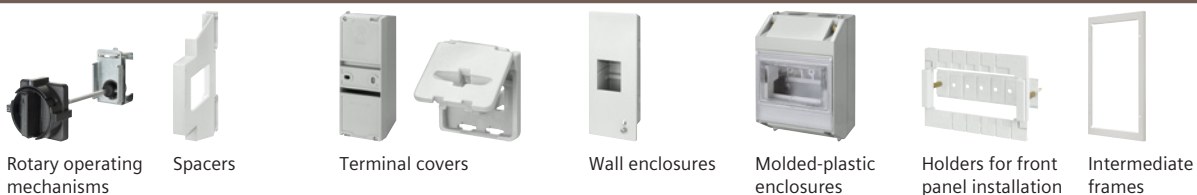
Shunt trips (ST)

Undervoltage releases (UR)

Remote controlled mechanisms (RC mech.)

5SM6 arc fault detection units

Mechanical accessories



Rotary operating mechanisms

Spacers

Terminal covers

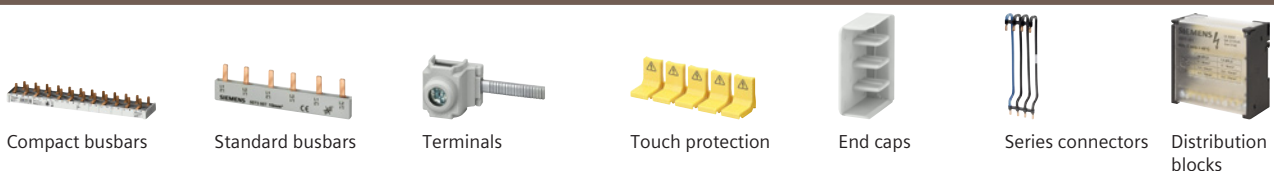
Wall enclosures

Molded-plastic enclosures

Holders for front panel installation

Intermediate frames

Busbars and accessories



Compact busbars

Standard busbars

Terminals

Touch protection

End caps

Series connectors

Distribution blocks

Note:

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

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)		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		V	250/440	250/440
Max. DC per pole	Acc. to EN 60898-2, EN 60947-2	V	72	72
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 ⁵⁾		°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: 5 ... 25 Hz (±1mm) and at 25 ... 150 Hz (50 m/s ²)			–	–
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				
			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
55% humidity up to 70 °C
30% humidity up to 75 °C

⁴⁾ Max. 85% rel. humidity, > 45°C max. 0.056kg/m³ abs. humidity

⁵⁾ The device properties specified, for example, in the product standards, such as service life, breaking capacity and surface temperature, cannot be guaranteed at the specified ambient temperatures that lie outside the specified product standards.

**5SL4****5SJ6...-KS****5SL30****5SL60****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

25

0.3 ... 63

10 ... 20

2 ... 40

2 ... 40

16 ... 63

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

-

72

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

0.75 ... 16

0.75 ... 16

2.5 ... 16 (top)

0.75 ... 10

-

0.75 ... 4

0.75 ... 4

-

0.75 ... 4

-

0.75 ... 1.5

0.75 ... 1.5

-

1 ... 4

-

0.75 ... 4

0.75 ... 4

-

10 ... 25

-

-

-

-

6 ... 25

-

6 ... 10

6 ... 10

-

6 ... 16

-

6 ... 10

6 ... 10

-

-25 ... +55²⁾-25 ... +45¹⁾

-25 ... +60

-25 ... +60⁴⁾

-25 ... +55

-40 ... +75³⁾-40 ... +75³⁾

-40 ... +75

-40 ... +75

-40 ... +70

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Miniature circuit breakers

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


SSL6 COM
5SY6
5SY4

Standards			IEC/EN 60898-1	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077	IEC/EN 60898-1 IEC/EN 60947-2 UL 1077
Standards					
Basic data					
Breaking capacity I_{cn}	For AC (230/400 V) acc. to IEC/EN 60898-1 AC	kA	6	6	10
	Acc. to UL1077 and CSA C22.2 No.235		–	Supplementary protector, OC, FW 0, OL 0, TC 3 at 50 °C	Supplementary protector, OC, FW 0, OL 0, TC 3 at 50 °C
		SC	–	U2: see Certificate of Compliance	U2: see Certificate of Compliance
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	kA	–	30 30	35 35
	I_n 3 ... 6 A	kA	–	30 30	35 35
	I_n 8 ... 10 A	kA	–	15 15	20 20
	I_n 13 ... 32 A	kA	–	15 15	20 20
	I_n 35 ... 40 A	kA	–	10 10	15 15
	I_n 50 ... 63 A	kA	–	10 10	15 15
	I_n 80 ... 125 A	kA	–	– –	10 10
Rated current		A	2 ... 32	0.3 ... 63	0.3 ... 80
Number of poles			1P+N	1P 2P 3P 4P 1P+N 3P+N	1P 2P 3P 4P 1P+N 3P+N
Tripping characteristic			B C	B C	A B C D
Approvals					
General product approvals			VDE, RED	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	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	72 ¹⁾	72 ¹⁾
Rated voltage AC	Acc. to UL 489	V	–	–	–
Rated impulse withstand voltage U_{imp}		kV	4	4	4
Rated frequency f_n		Hz	50/60	50/60	50/60
Connection					
Dual-chamber terminal			–	■	■
Conductor cross-section 1 wire	Solid/stranded	mm ²	0.75 ... 16	0.75 ... 35	0.75 ... 35
	Finely stranded, with end sleeve	mm ²	0.75 ... 10	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
Terminal tightening torque		Nm	1.5 ... 2.5 max.	2.5 ... 3.5 max.	2.5 ... 3.5 max.
		lb-in	13 ... 22	22 ... 26	22 ... 26
Ambient conditions					
Ambient temperature ⁷⁾		°C	–25 ... +60 ⁵⁾	–25 ... +55 ⁴⁾	–40 ... +70 ³⁾
Storage temperature		°C	–40 ... +75	–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: 5 ... 25 Hz (± 1 mm) and at 25 ... 150 Hz (50 m/s ²)			–	■	■
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	3/III	3/III
Additional functions					
Communication and measuring function ⁸⁾			■	–	–
More information					
			See page 3/38	See page 3/24	See page 3/26

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

55% humidity up to 70 °C

30% humidity up to 75 °C

⁴⁾ Max. 95% humidity

⁵⁾ Max. 85% rel. humidity, > 45°C max. 0.056kg/m³ abs. humidity

⁶⁾ When used with a busbar at the front or 2 conductors, the terminal area at the rear is restricted, see notes on the Internet

**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

–

Supplementary protector, OC,
FW 0, OL 0, TC 3 at 50°CSupplementary protector, OC,
FW 0, OL 0, TC 3 at 50°CSupplementary protector, OC,
FW 0, OL 0, TC 3 at 50°CSupplementary protector, OC,
FW 0, OL 0, TC 3 at 50°C

–

U2: see Certificate of
ComplianceU2: see Certificate of
ComplianceU2: see Certificate of
ComplianceU2: see Certificate of
Compliance

–

– | –

– | –

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


LR

ABS

DNV-GL, LR, BV, RINA, ABS

ABS

–

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

0.75 ... 25 (16)⁶⁾

10 ... 35

0.75 ... 25

0.75 ... 25

0.75 ... 25

0.75 ... 25 (10)

AWG 3 ... 1

AWG 18 ... 4

AWG 18 ... 4

AWG 18 ... 4

AWG 18 ... 4 (5)

2.5 ... 3.5 max.

2.5 ... 3.5 max.

2.5 ... 3.5 max.

2.5 ... 3.5 max.

2.5 ... 3.5 max.

22 ... 31

22 ... 26

22 ... 26

22 ... 26

22 ... 26

–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/III⁴⁾

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3/III

3/III

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⁷⁾ The device properties specified, for example, in the product standards, such as service life, breaking capacity and surface temperature, cannot be guaranteed at the specified ambient temperatures that lie outside the specified product standards.


⁸⁾ Please note the country-specific radio licenses of the products in SIOS:
www.siemens.com/lowvoltage/certificates

Device protection switches

For advanced applications for industry and machine manufacturing



5SY17

Standards			
Standards		IEC/EN 60934 UL 1077	
Basic data			
Breaking capacity I_{cn}	At rated voltage	kA	3
Rated current		A	0.5 ... 16
Number of poles			1P+AS
DC tripping	Magnetic		F1 (2.5 ... 4 × I_n) F2 (4 ... 7 × I_n)
	Thermal		1.05 × holding current 1.35 × tripping current TC3 1.35 × I_n
	Electronic		–
Service life	Actuations		6000
Approvals			
General product approvals		CCC, 	
Operational voltage			
Min. AC	Acc. to EN 60934	V	12 ²⁾
	Acc. to UL 1077, CSA C22.2 No.235	V	12 ²⁾
Max. AC	Acc. to EN 60934	V	250
	Acc. to UL 1077, CSA C22.2 No.235	V	277
Min. DC per pole		V	12 ²⁾
Max. DC per pole		V	72
Rated voltage	Acc. to IEC/EN 60934	V	230
	Acc. to UL 1077	V	277
Rated impulse withstand voltage U_{imp}		kV	4
Rated frequency f_n		Hz	50/60
Auxiliary switch			
Min. operational voltage (AC)		V	12
Max. operational voltage (AC)		V	250
Min. operational voltage (DC)		V	12
Max. operational voltage (DC)		V	60
Utilization category AC-12			6A at 230 V AC
Utilization category AC-14			6A at 230 V AC
Utilization category DC-13			1A at 60 V DC
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
Terminal tightening torque		Nm	2.0 ... 2.5 max.
		lb-in	17.7 ... 22.1
Ambient conditions			
Ambient temperature		°C	–25 ... +60 ³⁾
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: 5 ... 25 Hz (±1mm) and at 25 ... 150 Hz (50 m/s ²)			–
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

²⁾ At a minimum current of 100 mA



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

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1 ... 8

1P+AS

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

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–

–

30

–

0.5

–

–

–

–

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–

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–

–

0.2 ... 4

0.2 ... 2.5

0.2 ... 2.5

–

AWG 24 ... 12

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–25 ... +60¹⁾

–40 ... +70

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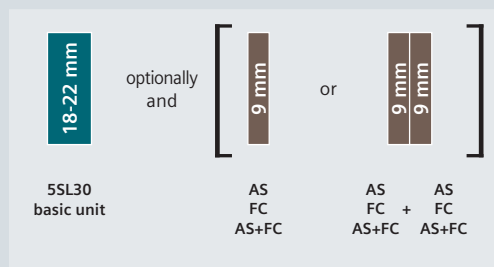
³⁾ Max. 85% rel. humidity, > 45°C max. 0.056kg/m³ abs. humidity

5SL3 miniature circuit breakers

4.5 kA

Mounting width	1P	1P+N	2P	3P				
	230/400 V AC	230 V AC	400 V AC	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	–	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

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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

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

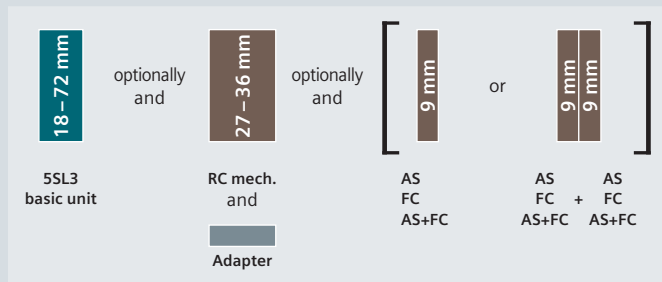
Fault signal contacts (FC)	Article No.
1 NO + 1 NC	5ST3020
2 NO	5ST3021
2 NC	5ST3022
Auxiliary switches and fault signal contacts (AS+FC)	Article No.
1 CO (AS) + 1 CO (FC)	5ST3062
5ST3 COM (AS+FC) new	5ST3062-0MC

5SL6 miniature circuit breakers

6 kA

Mounting width	1P	1P+N	2P	3P				
	230/400 V AC	230 V AC	400 V AC	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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- [See page 3/48](#)
- [See page 3/49](#)
- [See page 3/54](#)



3

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

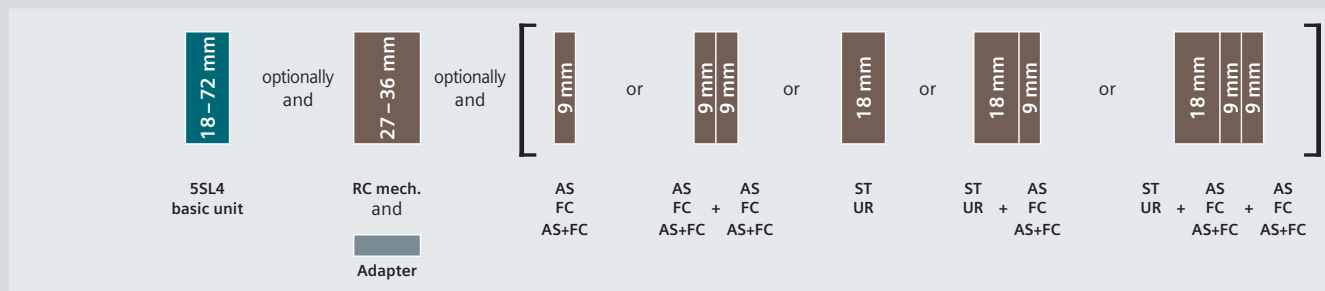
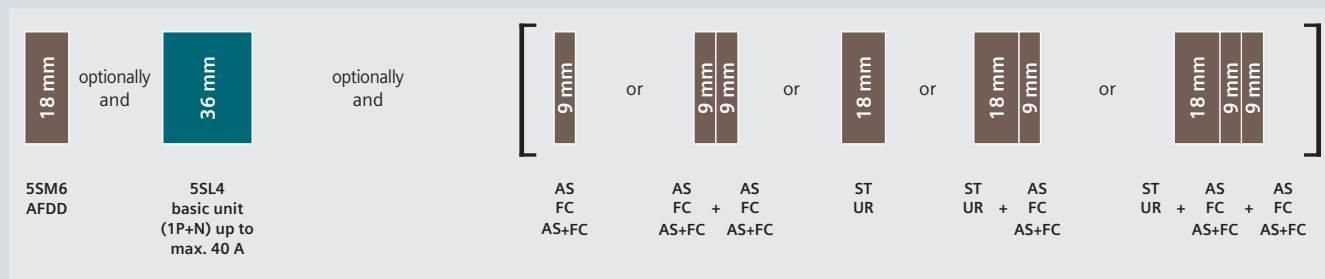
Auxiliary switches and fault signal contacts (AS+FC)		Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
5ST3 COM (AS+FC) new		5ST3062-0MC
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
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 units

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AS+FC Auxiliary switches and fault signal contacts

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UR Undervoltage releases

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AS Auxiliary switches

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ST Shunt trips

[See page 3/52](#)

RC mech. Remote controlled mechanisms

[See page 3/54](#)

FC Fault signal contacts

[See page 3/48](#)



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
5ST3 COM (AS+FC) new		5ST3062-0MC
Shunt trips (ST)		Article No.
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
Power	177 ... 270 V AC	5ST3056
	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
Power with ARD	177 ... 270 V AC	5ST3058
	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
Power with extended function	170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1–2 MW		5ST3820-6
3–4 MW		5ST3820-7
Arc fault detection units (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

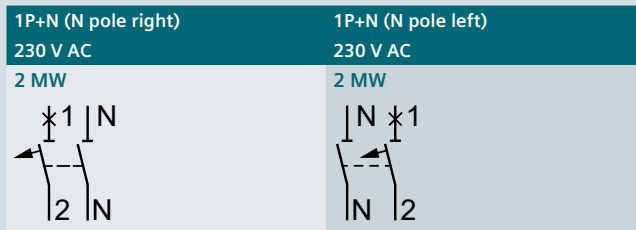


	1P 230/400 V AC		1P+N 230/400 V AC		2P 230/400 V AC		3P 230/400 V AC	
	1 MW		2 MW		2 MW		3 MW	
Mounting width								
Rated current I_n	Characteristic		Characteristic		Characteristic		Characteristic	
	B	C	B	C	B	C	B	C
10 A	5SJ6110-6KS	5SJ6110-7KS	5SJ6510-6KS	5SJ6510-7KS	5SJ6210-6KS	5SJ6210-7KS	5SJ6310-6KS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

3

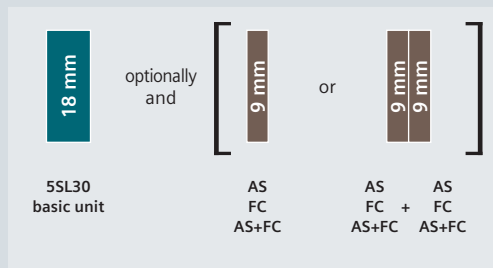
5SL30 miniature circuit breakers

1P+N 4.5 kA compact miniature circuit breakers



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

[See page 3/46](#)
[See page 3/48](#)
[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
5ST3 COM (AS+FC) new		5ST3062-0MC

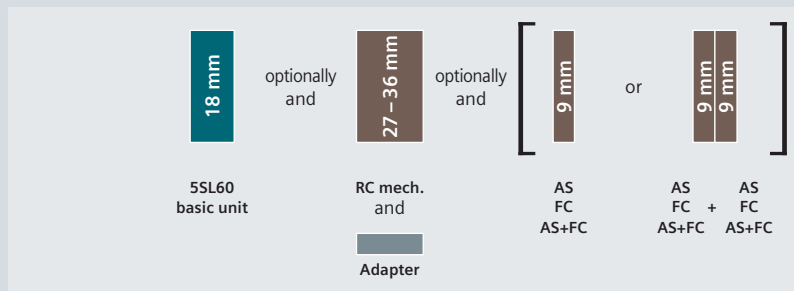
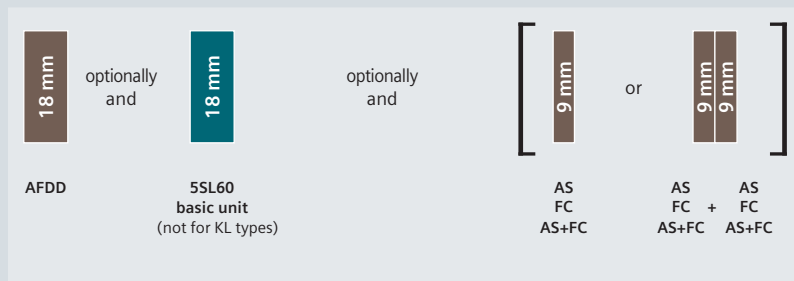
5SL60 miniature circuit breakers

1P+N 6 kA compact miniature circuit breakers

3

Mounting width	1P+N (N pole right) 230 V AC		1P+N (N pole left) 230 V AC	
	1 MW		1 MW	
Rated current I_n	Characteristic		Characteristic	
	B	C	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 units
- AS Auxiliary switches
- FC Fault signal contacts
- AS+FC Auxiliary switches and fault signal contacts
- RC mech. Remote controlled mechanisms

- [See page 3/55](#)
- [See page 3/46](#)
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Accessories

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

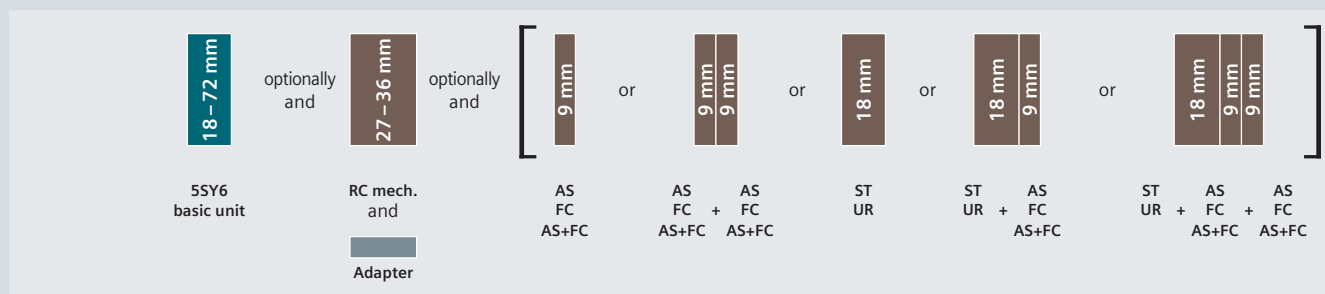
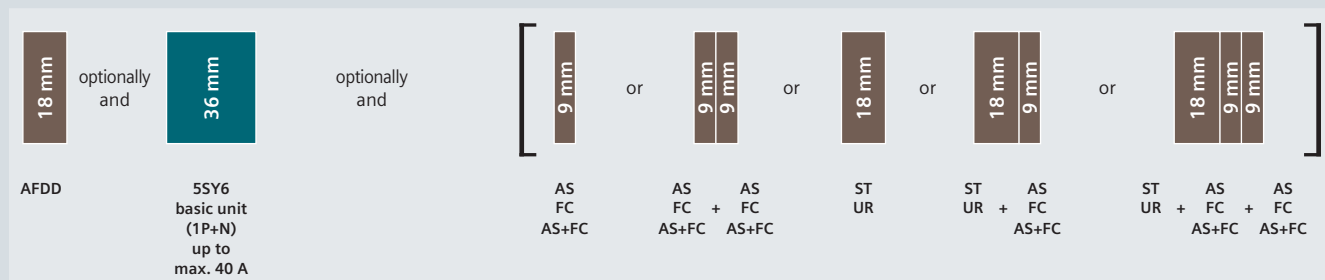
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
	177 ... 270 V AC	5ST3056
Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
	177 ... 270 V AC	5ST3058
Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1 MW		5ST3820-6
Arc fault detection units (AFDD)		Article No.
For basic units 1P + N (1 MW), not for KL types	I_n up to 16 A	5SM6011-2
	I_n up to 40 A	5SM6014-2

5SY6 miniature circuit breakers

6 kA

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	–	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 units

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AS+FC Auxiliary switches and

UR Undervoltage releases

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AS Auxiliary switches

[See page 3/46](#)

FC Fault signal contacts

[See page 3/49](#)

RC mech. Remote controlled mechanisms

[See page 3/54](#)

FC Fault signal contacts

[See page 3/48](#)

ST Shunt trips

[See page 3/52](#)



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
5ST3 COM (AS+FC) new		5ST3062-0MC
Shunt trips (ST)		Article No.
110 ... 415 V AC, 110 ... 220 DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

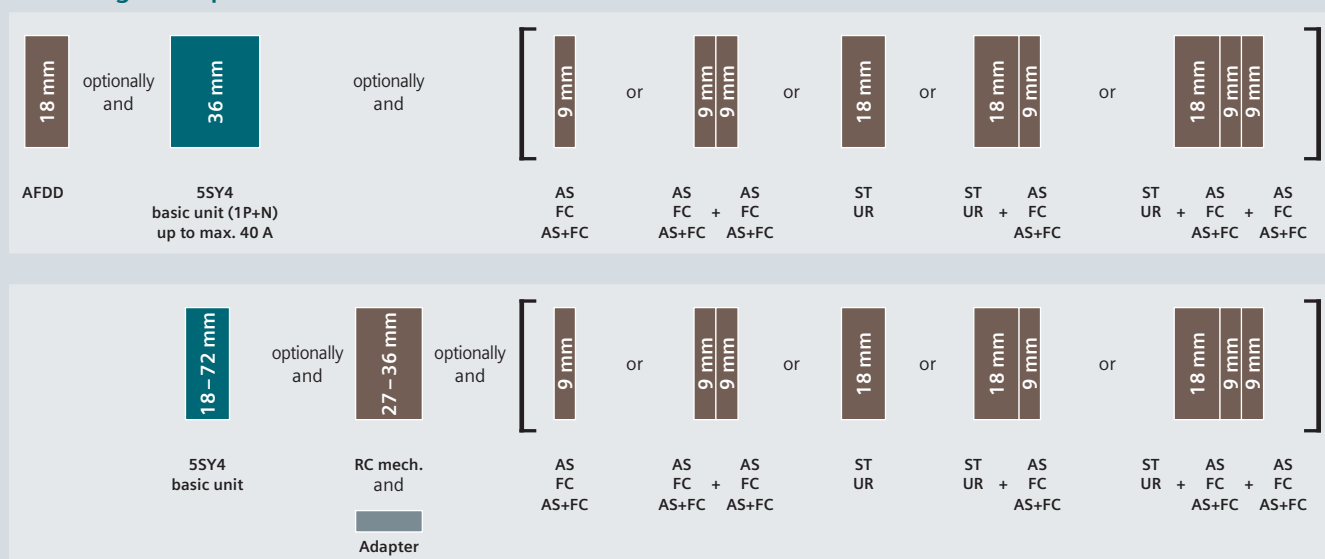
Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1–2 MW		5ST3820-1
3–4 MW		5ST3820-2
Arc fault detection units (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

Mounting width	1P 230/400 V AC 1 MW				1P+N 230 V AC 2 MW				2P 400 V AC 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	5SY4101-6	5SY4101-7	5SY4101-8	5SY4501-5	–	5SY4501-7	5SY4501-8	5SY4201-5	5SY4201-6	5SY4201-7	5SY4201-8
1.6 A	5SY4115-5	5SY4115-6	5SY4115-7	5SY4115-8	5SY4515-5	5SY4515-6	5SY4515-7	5SY4515-8	5SY4215-5	5SY4215-6	5SY4215-7	5SY4215-8
2 A	5SY4102-5	5SY4102-6	5SY4102-7	5SY4102-8	5SY4502-5	–	5SY4502-7	5SY4502-8	5SY4202-5	5SY4202-6	5SY4202-7	5SY4202-8
3 A	5SY4103-5	5SY4103-6	5SY4103-7	5SY4103-8	5SY4503-5	–	5SY4503-7	5SY4503-8	5SY4203-5	5SY4203-6	5SY4203-7	5SY4203-8
4 A	5SY4104-5	5SY4104-6	5SY4104-7	5SY4104-8	5SY4504-5	5SY4504-6	5SY4504-7	5SY4504-8	5SY4204-5	5SY4204-6	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	5SY4108-6	5SY4108-7	5SY4108-8	5SY4508-5	–	5SY4508-7	5SY4508-8	5SY4208-5	5SY4208-6	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	5SY4301-6	5SY4301-7	5SY4301-8	5SY4601-5	–	5SY4601-7	5SY4601-8	5SY4401-5	–	5SY4401-7	5SY4401-8
5SY4315-5	5SY4315-6	5SY4315-7	5SY4315-8	5SY4615-5	–	5SY4615-7	5SY4615-8	5SY4415-5	–	5SY4415-7	5SY4415-8
5SY4302-5	5SY4302-6	5SY4302-7	5SY4302-8	5SY4602-5	–	5SY4602-7	5SY4602-8	5SY4402-5	–	5SY4402-7	5SY4402-8
5SY4303-5	5SY4303-6	5SY4303-7	5SY4303-8	5SY4603-5	–	5SY4603-7	5SY4603-8	5SY4403-5	–	5SY4403-7	5SY4403-8
5SY4304-5	5SY4304-6	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	5SY4308-6	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

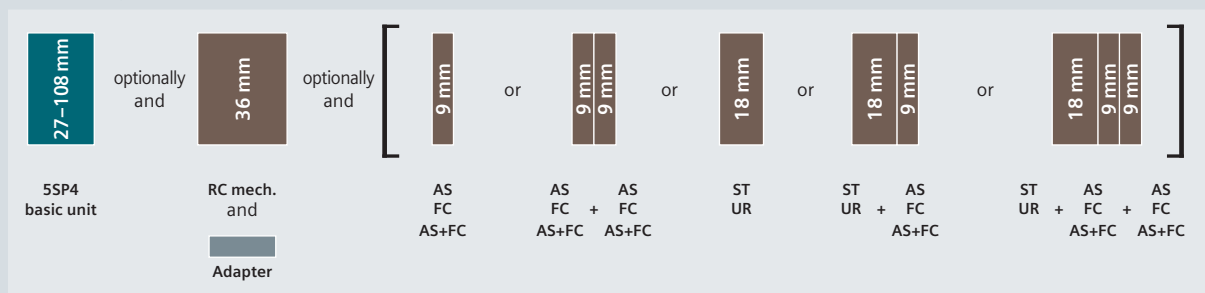
Auxiliary switches (AS)		Article No.	Arc fault detection units (AFDD)		Article No.
1 NO + 1 NC	Standard	5ST3010	For basic units 1P+N (2 MW)	I_n up to 16 A	5SM6021-2
	For low power	5ST3013		I_n up to 40 A	5SM6024-2
	For low power (with diode)	5ST3013-0XX01			
2 NO	Standard	5ST3011	Undervoltage releases (UR)		Article No.
	For low power	5ST3014	With integrated auxiliary switch	230 V AC	5ST3040
2 NC	Standard	5ST3012		110 V DC	5ST3041
	For low power	5ST3015		24 V DC	5ST3042
1 CO	Standard	5ST3016	Without integrated auxiliary switch	230 V AC	5ST3043
				110 V DC	5ST3044
				24 V DC	5ST3045
Fault signal contacts (FC)		Article No.	Remote controlled mechanisms (RC mech.)		Article No.
1 NO + 1 NC		5ST3020	Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
				177 ... 270 V AC	5ST3054
2 NO		5ST3021	Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
2 NC		5ST3022		177 ... 270 V AC	5ST3056
Auxiliary switches and fault signal contacts (AS+FC)		Article No.	Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
1 CO (AS) + 1 CO (FC)		5ST3062		177 ... 270 V AC	5ST3058
5ST3 COM (AS+FC) new		5ST3062-0MC	Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
				170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Shunt trips (ST)		Article No.	Adapters for remote controlled mechanisms (RC mech.)		Article No.
110 ... 415 V AC, 110 ... 220 DC		5ST3030	1–2 MW		5ST3820-1
24 ... 48 V AC/DC		5ST3031		3–4 MW	
12 V DC		5ST3031-0XX01			

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



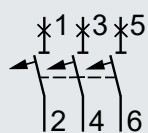
- AS Auxiliary switches [See page 3/46](#)
- FC Fault signal contacts [See page 3/48](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 3/49](#)
- ST Shunt trips [See page 3/52](#)
- UR Undervoltage releases [See page 3/53](#)
- RC mech. Remote controlled mechanisms [See page 3/54](#)



3P

400 V AC

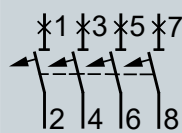
4.5 MW



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
5ST3 COM (AS+FC) new		5ST3062-0MC
Shunt trips (ST)		Article No.
110 ... 415 V AC, 110 ... 220 DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

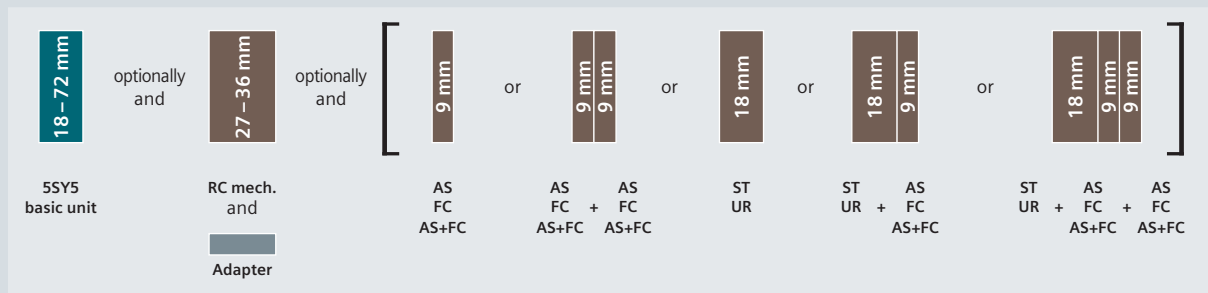
Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Power	12 ... 30 V AC, 12 ... 48 V DC	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

Mounting width	1P 230/400 V AC, 220 V DC		2P 400 V AC, 440 V DC		4P 400 V AC, 880 V DC	
	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	5SY5202-6	5SY5202-7	–	5SY5402-7
3 A	–	5SY5103-7	–	5SY5203-7	–	5SY5403-7
4 A	5SY5104-6	5SY5104-7	5SY5204-6	5SY5204-7	–	5SY5404-7
6 A	5SY5106-6	5SY5106-7	5SY5206-6	5SY5206-7	5SY5406-6	5SY5406-7
8 A	5SY5108-6	5SY5108-7	5SY5208-6	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 [See page 3/46](#)
- FC Fault signal contacts [See page 3/48](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 3/49](#)
- ST Shunt trips [See page 3/52](#)
- UR Undervoltage releases [See page 3/53](#)
- RC mech. Remote controlled mechanisms [See page 3/54](#)



Accessories

Auxiliary switches (AS)		Article No.
1 NO + 1 NC	Standard	5ST3010
	For low power	5ST3013
	For low power (with diode)	5ST3013-0XX01
2 NO	Standard	5ST3011
	For low power	5ST3014
2 NC	Standard	5ST3012
	For low power	5ST3015
1 CO	Standard	5ST3016
Fault signal contacts (FC)		Article No.
1 NO + 1 NC		5ST3020
2 NO		5ST3021
2 NC		5ST3022
Auxiliary switches and fault signal contacts (AS+FC)		Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
5ST3 COM (AS+FC) new		5ST3062-0MC
Shunt trips (ST)		Article No.
110 ... 415 V AC, 110 ... 220 DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled 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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1–2 MW		5ST3820-1
4 MW		5ST3820-2

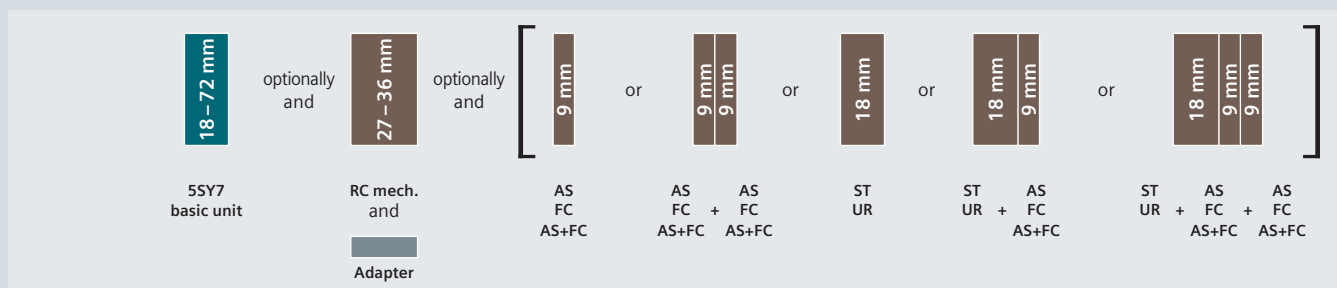
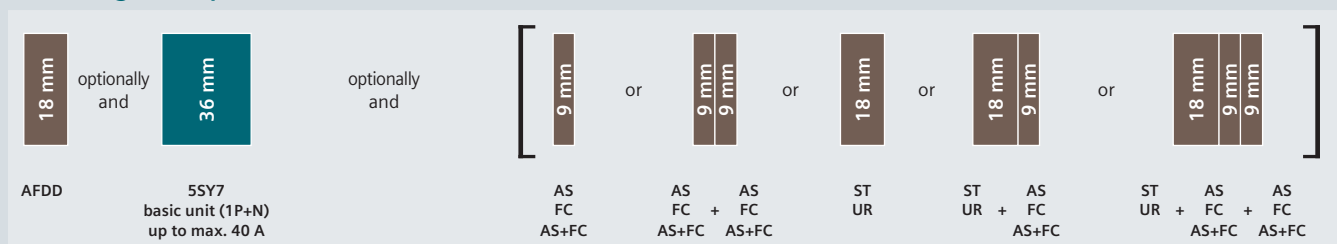
5SY7 miniature circuit breakers

15 kA

Mounting width	1P	1P+N	2P
	230/400 V AC	230 V AC	400 V AC
1 MW		2 MW	2 MW

Rated current I_n	Main MCB, line side of meter	Characteristic			Characteristic			Characteristic			
		B	C	D	B	C	D	B	C	D	
0.3 A	–	–	5SY7114-7	5SY7114-8	–	5SY7514-7	5SY7514-8	–	5SY7214-7	5SY7214-8	
0.5 A	–	–	5SY7105-7	5SY7105-8	–	5SY7505-7	5SY7505-8	–	5SY7205-7	5SY7205-8	
1 A	–	–	5SY7101-7	5SY7101-8	–	5SY7501-7	5SY7501-8	–	5SY7201-7	5SY7201-8	
1.6 A	–	–	5SY7115-7	5SY7115-8	–	5SY7515-7	5SY7515-8	–	5SY7215-7	5SY7215-8	
2 A	–	–	5SY7102-7	5SY7102-8	–	5SY7502-7	5SY7502-8	–	5SY7202-7	5SY7202-8	
3 A	–	–	5SY7103-7	5SY7103-8	–	5SY7503-7	5SY7503-8	–	5SY7203-7	5SY7203-8	
4 A	–	–	5SY7104-7	5SY7104-8	–	5SY7504-7	5SY7504-8	–	5SY7204-7	5SY7204-8	
6 A	–	–	5SY7106-6	5SY7106-7	5SY7106-8	5SY7506-6	5SY7506-7	5SY7506-8	5SY7206-6	5SY7206-7	5SY7206-8
	■	–	5SY7106-6KK13	–	–	–	–	–	–	–	–
8 A	–	–	5SY7108-7	5SY7108-8	–	5SY7508-7	5SY7508-8	–	5SY7208-7	5SY7208-8	
10 A	–	–	5SY7110-6	5SY7110-7	5SY7110-8	5SY7510-6	5SY7510-7	5SY7510-8	5SY7210-6	5SY7210-7	5SY7210-8
	■	–	5SY7110-6KK13	–	–	–	–	–	–	–	–
13 A	–	–	5SY7113-6	5SY7113-7	5SY7113-8	5SY7513-6	5SY7513-7	5SY7513-8	5SY7213-6	5SY7213-7	5SY7213-8
16 A	–	–	5SY7116-6	5SY7116-7	5SY7116-8	5SY7516-6	5SY7516-7	5SY7516-8	5SY7216-6	5SY7216-7	5SY7216-8
20 A	–	–	5SY7120-6	5SY7120-7	5SY7120-8	5SY7520-6	5SY7520-7	5SY7520-8	5SY7220-6	5SY7220-7	5SY7220-8
25 A	–	–	5SY7125-6	5SY7125-7	5SY7125-8	5SY7525-6	5SY7525-7	5SY7525-8	5SY7225-6	5SY7225-7	5SY7225-8
32 A	–	–	5SY7132-6	5SY7132-7	5SY7132-8	5SY7532-6	5SY7532-7	5SY7532-8	5SY7232-6	5SY7232-7	5SY7232-8
40 A	–	–	5SY7140-6	5SY7140-7	5SY7140-8	5SY7540-6	5SY7540-7	5SY7540-8	5SY7240-6	5SY7240-7	5SY7240-8
50 A	–	–	5SY7150-6	5SY7150-7	5SY7150-8	5SY7550-6	5SY7550-7	5SY7550-8	5SY7250-6	5SY7250-7	5SY7250-8
63 A	–	–	5SY7163-6	5SY7163-7	5SY7163-8	5SY7563-6	5SY7563-7	5SY7563-8	5SY7263-6	5SY7263-7	5SY7263-8

Mounting concept



AFDD Arc fault detection units [See page 3/55](#) AS+FC Auxiliary switches and fault signal contacts [See page 3/49](#) UR Undervoltage releases [See page 3/53](#)
 AS Auxiliary switches [See page 3/46](#) ST Shunt trips [See page 3/52](#) RC mech. Remote controlled mechanisms [See page 3/54](#)
 FC Fault signal contacts [See page 3/48](#)



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

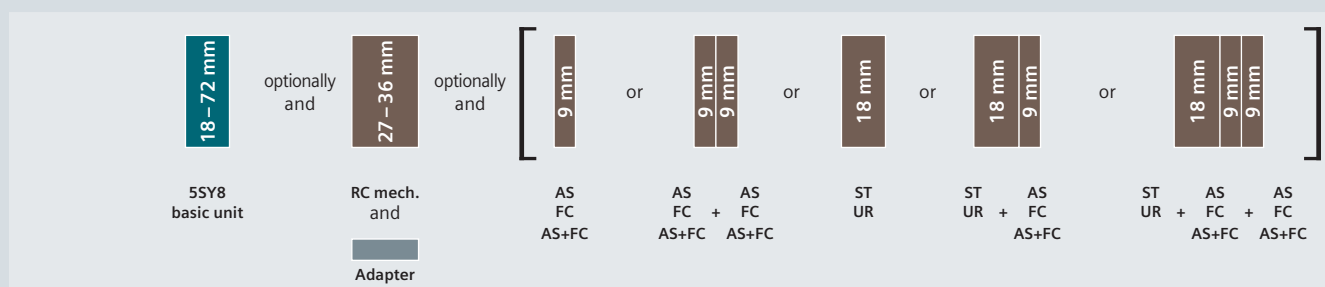
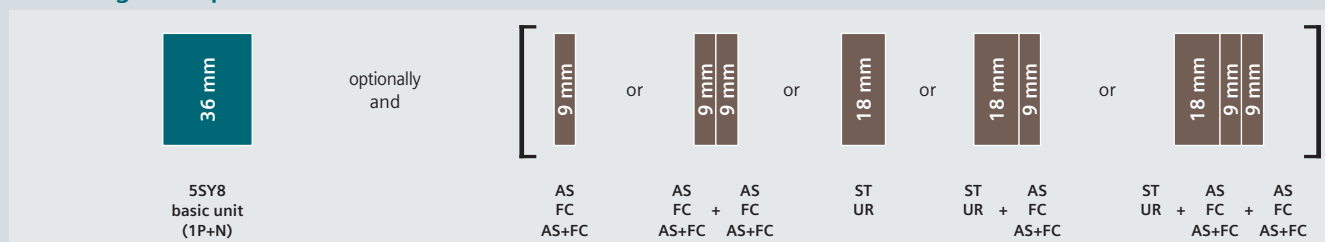
Auxiliary switches (AS)		Article No.	Undervoltage releases (UR)		Article No.
1 NO + 1 NC	Standard	5ST3010	With integrated auxiliary switch	230 V AC	5ST3040
	For low power	5ST3013		110 V DC	5ST3041
	For low power (with diode)	5ST3013-0XX01		24 V DC	5ST3042
2 NO	Standard	5ST3011	Without integrated auxiliary switch	230 V AC	5ST3043
	For low power	5ST3014		110 V DC	5ST3044
2 NC	Standard	5ST3012		24 V DC	5ST3045
	For low power	5ST3015	Remote controlled mechanisms (RC mech.)		Article No.
1 CO	Standard	5ST3016	Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
Fault signal contacts (FC)		Article No.		177 ... 270 V AC	5ST3054
1 NO + 1 NC		5ST3020	Power	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
2 NO		5ST3021		177 ... 270 V AC	5ST3056
2 NC		5ST3022	Power with ARD	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
Auxiliary switches and fault signal contacts (AS+FC)		Article No.		177 ... 270 V AC	5ST3058
1 CO (AS) + 1 CO (FC)		5ST3062	Power with extended function	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
5ST3 COM (AS+FC) new		5ST3062-0MC		170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Shunt trips (ST)		Article No.	Adapters for remote controlled mechanisms (RC mech.)		Article No.
110 ... 415 V AC, 110 ... 220 V DC		5ST3030	1–2 MW		5ST3820-1
24 ... 48 V AC/DC		5ST3031	3–4 MW		5ST3820-2
12 V DC		5ST3031-0XX01	Arc fault detection units (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

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	2 MW	3 MW	3 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 units

[See page 3/55](#)

AS+FC Auxiliary switches and

UR Undervoltage releases

[See page 3/53](#)

AS Auxiliary switches

[See page 3/46](#)

Fault signal contacts

[See page 3/49](#)

RC mech. Remote controlled mechanisms

[See page 3/54](#)

FC Fault signal contacts

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ST Shunt trips

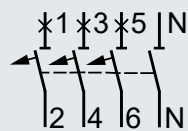
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3P+N

400 V AC

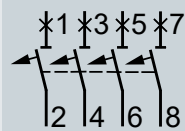
4 MW



4P

400 V AC

4 MW



Characteristic

C

D

Characteristic

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
5ST3 COM (AS+FC) new		5ST3062-0MC
Shunt trips (ST)		Article No.
110 ... 415 V AC, 110 ... 220 V DC		5ST3030
24 ... 48 V AC/DC		5ST3031
12 V DC		5ST3031-0XX01

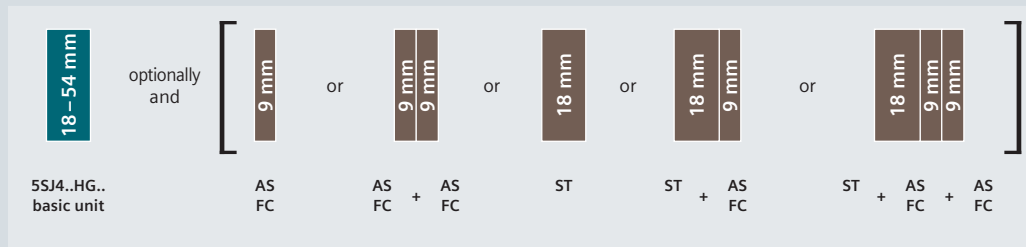
Undervoltage releases (UR)		Article No.
With integrated auxiliary switch	230 V AC	5ST3040
	110 V DC	5ST3041
	24 V DC	5ST3042
Without integrated auxiliary switch	230 V AC	5ST3043
	110 V DC	5ST3044
	24 V DC	5ST3045
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	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
	170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1–2 MW		5ST3820-1
3–4 MW		5ST3820-2

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				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 trips

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[See page 3/48](#)
[See page 3/52](#)



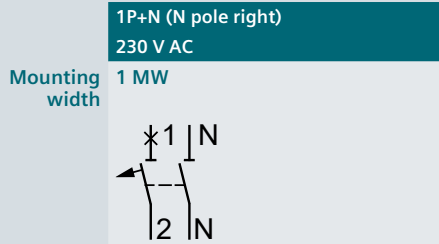
2P				3P			
240 V AC	480Y/277 V AC	240 V AC	480Y/277 V AC	240 V AC	480Y/277 V AC	240 V AC	480Y/277 V AC
2 MW				3 MW			
Characteristic				Characteristic			
C	C	D	D	C	C	D	D
5SJ4214-7HG41	5SJ4214-7HG42	5SJ4214-8HG41	5SJ4214-8HG42	5SJ4314-7HG41	5SJ4314-7HG42	5SJ4314-8HG41	5SJ4314-8HG42
5SJ4205-7HG41	5SJ4205-7HG42	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 trips (ST) acc. to UL 489	Article No.
110 ... 415 V AC, 110 ... 220 V DC	5ST3030-0HG
24 ... 48 V AC/DC	5ST3031-0HG

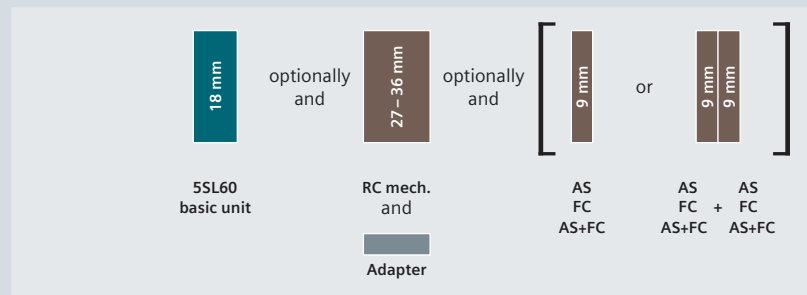
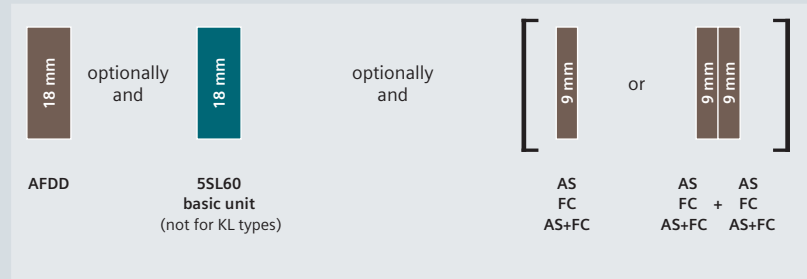
5SL6 COM miniature circuit breakers with communication and measuring function **new**

1P+N 6 kA compact miniature circuit breakers



Rated current I_n	Characteristic	
	B	C
2 A	5SL6002-6MC	5SL6002-7MC
4 A	5SL6004-6MC	5SL6004-7MC
6 A	5SL6006-6MC	5SL6006-7MC
8 A	–	5SL6008-7MC
10 A	5SL6010-6MC	5SL6010-7MC
13 A	5SL6013-6MC	5SL6013-7MC
16 A	5SL6016-6MC	5SL6016-7MC
20 A	5SL6020-6MC	5SL6020-7MC
25 A	5SL6025-6MC	5SL6025-7MC
32 A	5SL6032-6MC	5SL6032-7MC

Mounting concept



Note:

Please note the country-specific radio licenses of the products in SIOS:
www.siemens.com/lowvoltage/certificates

Accessories

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

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
	170 ... 277 V AC, 77 ... 286 V DC 5ST3071 new
Adapters for remote controlled mechanisms (RC mech.)	Article No.
1 MW	5ST3820-6
Arc fault detection units (AFDD)	Article No.
For basic units 1P + N (1 MW), not for KL types	I_n up to 16 A 5SM6011-2
	I_n up to 40 A 5SM6014-2

AFDD Arc fault detection units
AS Auxiliary switches
FC Fault signal contacts

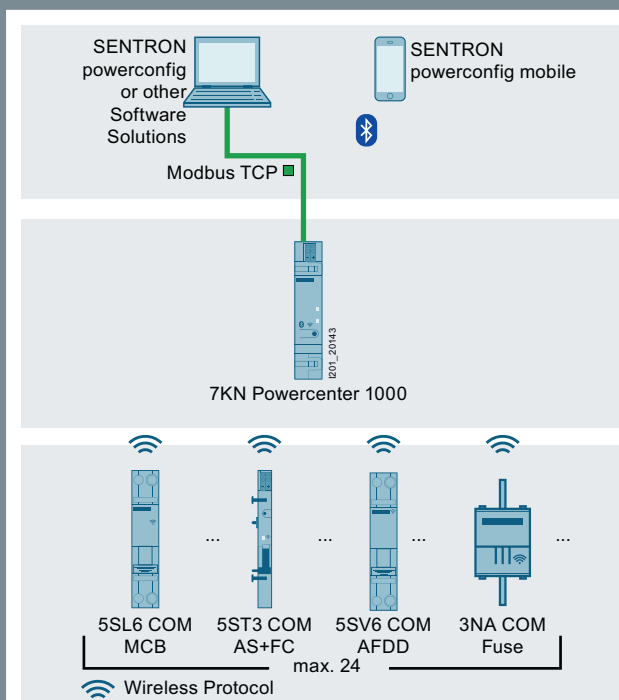
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AS+FC Auxiliary switches and fault signal contacts
RC mech. Remote controlled mechanisms

See page 3/49
See page 3/54



7KN Powercenter 1000 data transceiver



- Wireless radio transmission of measured values and data to the 7KN Powercenter 1000 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the 7KN Powercenter 1000 data transceiver



7KN Powercenter 1000

Article No.

7KN1110-0MC00

[See page 10/17](#)

You will find further information under:

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



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



Monitoring functions with limit monitoring

- Trip monitoring
- Counters incl. limit monitoring for:
 - Operating hours
 - Operating hours with load current
 - Operating cycles (ON/OFF))
 - Tripping operations
 - Short circuits
- Limit values for:
 - Overcurrent alarm 1 and alarm 2
 - Undercurrent alarm 1 and alarm 2
 - Temperature

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

5SP3 selective main miniature circuit breakers (SHU)



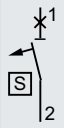
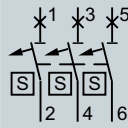
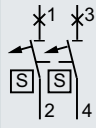
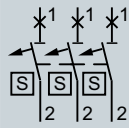
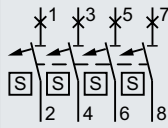
25 kA, mounting on a 40 mm busbar

3

Mounting width	1P 230/400 V AC					3 × 1P 230/400 V AC
	1.5 MW					
Rated current I_n	Characteristic					Characteristic
	E	L1	L2	L3	L1 + L2 + L3	E
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 mounting rail

	1P 230/400 V AC	3x 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

5SY17 device protection switches

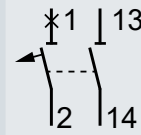
Electromechanical



3

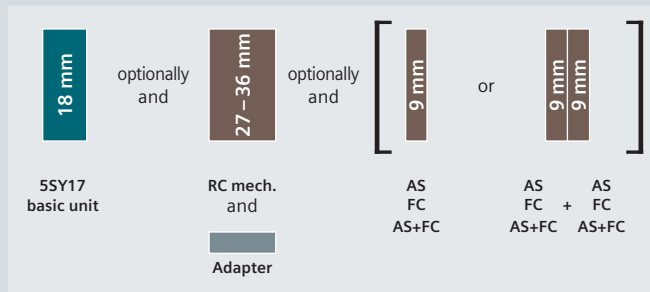
1P+AS
230 V AC/12 ... 72 V DC

Mounting width 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 [See page 3/46](#)
- FC Fault signal contacts [See page 3/48](#)
- AS+FC Auxiliary switches and fault signal contacts [See page 3/49](#)
- RC mech. Remote controlled mechanisms [See page 3/54](#)

Accessories

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

Auxiliary switches and fault signal contacts (AS+FC)		Article No.
1 CO (AS) + 1 CO (FC)		5ST3062
5ST3 COM (AS+FC) new		5ST3062-0MC
Remote controlled mechanisms (RC mech.)		Article No.
Basic	12 ... 30 V AC, 12 ... 48 V DC	5ST3053
	177 ... 270 V AC	5ST3054
	12 ... 30 V AC, 12 ... 48 V DC	5ST3055
Power	177 ... 270 V AC	5ST3056
	12 ... 30 V AC, 12 ... 48 V DC	5ST3057
Power with ARD	177 ... 270 V AC	5ST3058
	12 ... 30 V AC, 12 ... 48 V DC	5ST3070
Power with extended function	170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new
Adapters for remote controlled mechanisms (RC mech.)		Article No.
1 MW		5ST3820-6

5SK9 device protection switches

Electronic





	1P+AS
	24 V DC
Mounting width	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

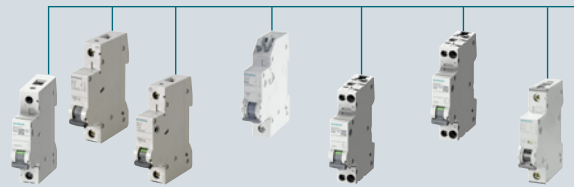
Specific accessories

Connecting combs			
Type	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			
Type	Number of poles	Max. load current I_{max}	Article No.
 For bypassing the power supply	2-pole	40 A	8WH9020-0AC10







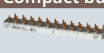
See general accessories from page 3/56 onwards

Overview of the modular system

Miniature circuit breakers



3

			5SL3	5SL6	5SL4	5SJ6...-KS	5SL30	5SL60/ 5SL6 COM	5SY
Auxiliary switches (AS)			Article No.						
	1 NO + 1 NC	Standard	5ST3010	■	■	■	–	■	■
		For low power	5ST3013	■	■	■	–	■	■
		For low power (with diode)	5ST3013-0XX01	■	■	■	–	■	■
	2 NO	Standard	5ST3011	■	■	■	–	■	■
		For low power	5ST3014	■	■	■	–	■	■
	2 NC	Standard	5ST3012	■	■	■	–	■	■
For low power		5ST3015	■	■	■	–	■	■	
1 CO	Standard	5ST3016	■	■	■	–	■	■	
		5ST1010-0FP	–	–	–	–	–	–	
Fault signal contacts (FC)			Article No.						
	1 NO + 1 NC		5ST3020	■	■	■	–	■	■
	2 NO		5ST3021	■	■	■	–	■	■
	2 NC		5ST3022	■	■	■	–	■	■
Auxiliary switches and fault signal contacts (AS+FC)			Article No.						
	1 CO (AS) + 1 CO (FC)	Standard	5ST3062	■	■	■	–	■	■
	5ST3 COM (AS+FC) new	With communication and measuring function	5ST3062-0MC	■	■	■	–	■	■
Shunt trips (ST)			Article No.						
	110 ... 415 V AC, 110 ... 220 V DC		5ST3030	–	–	■	–	–	■
	24 ... 48 V AC/DC		5ST3031	–	–	■	–	–	■
	12 V DC		5ST3031-0XX01	–	–	■	–	–	■
Undervoltage releases (UR)			Article No.						
	With integrated auxiliary switch	230 V AC	5ST3040	–	–	■	–	–	■
		110 V DC	5ST3041	–	–	■	–	–	■
		24 V DC	5ST3042	–	–	■	–	–	■
	Without integrated auxiliary switch	230 V AC	5ST3043	–	–	■	–	–	■
		110 V DC	5ST3044	–	–	■	–	–	■
		24 V DC	5ST3045	–	–	■	–	–	■
Remote 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	–	■	■	–	–	■
		170 ... 277 V AC, 77 ... 286 V DC	5ST3071 new	–	■	■	–	–	■
5SM6 arc fault detection units			Article No.						
	Rated current up to 16 A	Standard	5SM6021-2	–	–	□	–	–	□
		For compact devices 1P+N in 1 MW	5SM6011-2	–	–	–	–	□	–
	Rated current up to 40 A	Standard	5SM6024-2	–	–	□	–	–	□
		For compact devices 1P+N in 1 MW	5SM6014-2	–	–	–	–	□	–
Standard busbars			Article No.						
	Cannot be cut		5ST36..	■	■	■	■	■	■
	Can be cut		5ST37..	■	■	■	■	■	■
Compact busbars			Article No.						
	Cannot be cut		5ST36..	□	□	□	–	■	■
	Can be cut		5ST37..	□	□	□	–	■	■

From page 3/12

■ Suitable for all versions

□ Suitable for some versions

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	5ST3010-0HG
						2 NO	Standard	0.5 MW	5ST3011-0HG
						2 NC	Standard	0.5 MW	5ST3012-0HG

¹⁾ 5ST3805-1 handle coupler required

Further technical specifications

5ST3010, 5ST3011, 5ST3012, 5ST3016	5ST3010-0HG, 5ST3011-0HG, 5ST3012-0HG	5ST3010-2, 5ST3011-2, 5ST3012-2	5ST3013, 5ST3014, 5ST3015, 5ST3013-0XX01 ¹⁾	5ST3013-2, 5ST3014-2, 5ST3015-2
---------------------------------------------	---------------------------------------------	---------------------------------------	-----------------------------------------------------------------	---------------------------------------

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, CSA 22.2 No. 5-02	– UL 1077, CSA C22.2 No. 235 –
Contacts				
Minimum contact load		50 mA, 24 V		1 mA, 5 V DC 5 mA, 5 V DC
Maximum contact load		–		100 mA, 30 V DC 50 mA, 30 V DC
Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1	230 V AC, AC-12	–		–
	230 V AC, AC-13	6 A/6 A		–
	400 V AC, AC-13	2 A/2 A		–
	230 V AC, AC-14	6 A/6 A		–
	400 V AC, AC-14	2 A/2 A		–
	24 V DC, DC-13	6 A/3 A		–
	30 V DC, DC-14	–		0.1 A
	60 V DC, DC-13	3 A/1.5 A		–
	110 V DC, DC-13	1 A/0.75 A		–
	220 V DC, DC-12	–		–
	220 V DC, DC-13	1 A/0.5 A		–
	Contact load acc. to UL	120 V AC	–	6 A
125 V AC		3 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		1,1 A	1 A	–
250 V DC		0,55 A	–	–
Service life, on average, with rated load	Actuations	20000	12000	20000
	Safety			
	Short-circuit protection	5SY... 6A 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	–40 ... +70 °C			
Permissible storage temperature	–40 ... +75 °C			
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles		
Mounting position	Any			
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	150 m/s ²		
Resistance to vibrations at 5 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²		

¹⁾ No approvals

Electrical accessories



Fault signal contacts (FC)

- Signals automatic tripping of the 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

3

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			
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⁾ 5ST3805-1 handle coupler required

Further technical specifications

	5ST3020, 5ST3021, 5ST3022	5ST3020-2, 5ST3021-2, 5ST3022-2	5ST3020-0HG, 5ST3021-0HG, 5ST3022-0HG
Standards			
Standards	IEC/EN UL, CSA	IEC/EN 62019, IEC/EN 60947-5-1 UL 1077, CSA C22.2 No. 235	– UL 489, CSA 22.2 No. 5-02
Contacts			
Minimum contact load	50 mA, 24 V		
Contact load acc. to IEC/EN 62019/IEC/EN 60947-5-1	230 V AC, AC-13 400 V AC, AC-13 230 V AC, AC-14 400 V AC, AC-14 24 V DC, DC-13 60 V DC, DC-13 110 V DC, DC-13 220 V DC, DC-13	6 A/6 A 6 A/6 A 2 A/2 A 2 A/2 A 6 A/3 A 3 A/1.5 A 1 A/0.75 A 1 A/0.5 A	
Contact load acc. to UL	120 V AC 125 V AC 240 V AC 277 V AC 480 V AC 60 V DC 125 V DC 250 V DC	– 3 A 4 A – 1.5 A – 1.1 A 0.55 A	6 A – – 3 A – 3 A 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 mm ² (AWG 22 ... 14)		
Terminals	Max. tightening torque	0.5 Nm (4.5 lb-in)	
Ambient conditions			
Permissible ambient temperature	–25 ... +55 °C		
Permissible storage temperature	–40 ... +75 °C		
Resistance to climate	Acc. to IEC 60068-2-30	28 cycles	
Mounting position	Any		
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27	150 m/s ²	
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²	



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⁾ 5ST3805-1 handle coupler 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/IEC/EN 60947-5-1	230 V AC, AC-13 400 V AC, AC-14	6 A/6 A 2 A/2 A
Contact load acc. to IEC/EN 62019/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
Contact load acc. to UL	125 V AC 240 V AC 480 V AC 125 V DC 250 V DC	2 A 1.5 A 0.75 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	150 m/s ²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6	50 m/s ²

Electrical accessories

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



For combining with basic units					Mounting width	Article No.
Miniature circuit breakers	Device protection switches	RCCBs	RCBOs	Arc fault detection devices	(1 MW = 18 mm)	
5ST3 COM auxiliary switches and fault signal contacts (AS+FC) with communication and measuring function						
5SL, 5SY, 5SP4	5SY17	5SV	5SU1 ¹⁾ , 5SV1	5SV6	Radio link to 7KN Powercenter 1000	0.5 MW 5ST3062-0MC

¹⁾ 5ST3805-1 handle coupler required

Note:

Please note the country-specific radio licenses of the products in SIOS:

www.siemens.com/lowvoltage/certificates

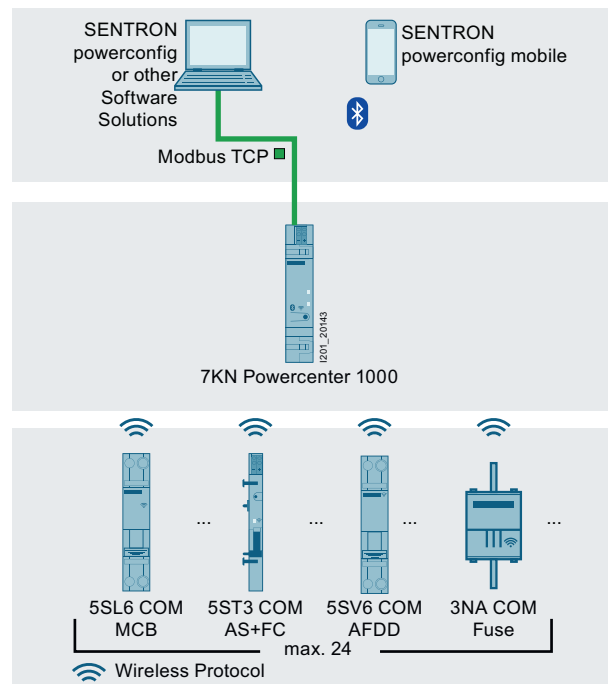
Further technical specifications

5ST3062-0MC

Standards			
Standards		IEC/EN; UL, CSA RED	60669-2-5 2014/53/EU
Power supply			
Power supply			24 V DC ±20%, SELV
Conductor cross-sections			0.2 ... 1.5 mm ²
Connection type			Plug-in terminal
Safety			
Pollution degree for overvoltage category			2/II
Degree of protection			IP40, with front cover
Ambient conditions			
Permissible ambient temperature			-25 ... +60 °C
Permissible storage temperature			-40 ... +85 °C
Humidity			93% at 40 °C
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles
Mounting position			Any
Schock			150 m/s ²
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6		50 m/s ²
Service life			10000
Communication			
Interface	7KN Powercenter 1000		Radio link
Temperature			Measuring accuracy of 2.5 °C with limit monitoring incl. storage (1 hour in 1-minute intervals and 7 days in 15-minute intervals)
Operating cycle counters			Mechanical operation with limit monitoring
Trip counter			Trip of the mounted circuit protection device with limit monitoring



7KN Powercenter 1000 data transceiver



- Wireless radio transmission of measured values and data to the 7KN Powercenter 1000 data transceiver
- Commissioning, parameter assignment, firmware updates and further processing of the data via the 7KN Powercenter 1000 data transceiver



7KN Powercenter 1000

Article No.

7KN1110-0MC00

See page 10/17

You will find further information under:

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

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



Electrical accessories



Shunt trips (ST)

- For remote-controlled tripping of the mounted device

For combining with basic units			Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	RCCBs	RCBOs			
Shunt trips (ST)					
5SL4, 5SY, 5SP	5SV	5SU1 ¹⁾	110 ... 415 V AC, 110 ... 220 V DC	1 MW	5ST3030
			24 ... 48 V AC/DC	1 MW	5ST3031
			12 V DC new	1 MW	5ST3031-0XX01
Shunt trips (ST) acc. to UL 489					
5SJ4...-HG	–	–	110 ... 415 V AC, 110 ... 220 V DC	1 MW	5ST3030-0HG
			24 ... 60 V AC/DC	1 MW	5ST3031-0HG

¹⁾ 5ST3805-1 handle coupler required

Further technical specifications

	5ST3030	5ST3031	5ST3031-0XX01	5ST3030-0HG	5ST3031-0HG
Standards					
Standards	IEC/EN UL, CSA		EN 60947-1 –	IEC/EN 60947-1 UL 489, UL-File E321559, CSA 22.2 No. 5-02	
Supply					
Primary operating range	0.7 ... 1.1 × U_n				
Rated frequency f_n	50 ... 60 Hz		–	50 ... 60 Hz	
Contacts					
Minimum contact load	50 mA, 24 V		1 mA, 5 V	50 mA, 24 V	
Tripping operations	Max. 2000				
Service life, on average, with rated load	Actuations 20000			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 mm ² (AWG 22 ... 14)				
Terminals	Max. tightening torque		0.8 Nm (6.8 lb-in)		
Ambient conditions					
Permissible ambient temperature	–25 ... +55 °C		–40 ... +70 °C	–25 ... +55 °C	
Permissible storage temperature	–40 ... +75 °C				
Resistance to climate	Acc. to IEC 60068-2-30		28 cycles		
Mounting position	Any				
Shock at 11 ms half-sine	Acc. to IEC 60068-2-27		150 m/s ²		
Resistance to vibrations at 10 ... 150 Hz	Acc. to IEC 60068-2-6		50 m/s ²		



Undervoltage releases (UR)

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

For combining with basic units			Rated operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Miniature circuit breakers	RCCBs	RCBOs			
With integrated auxiliary switch					
5SL4, 5SY, 5SP4	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⁾ 5ST3805-1 handle coupler required

Further technical specifications

5ST304.

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

Electrical accessories



5ST3 remote 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 operational voltage U_e	Mounting width (1 MW = 18 mm)	Article No.
Basic	–	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	1.5 MW	5ST3053
				177 ... 270 V AC	2 MW	5ST3054
Power	LED	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3055
				177 ... 270 V AC	2 MW	5ST3056
Power with ARD	LED	–25 °C ... +45 °C	–	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3057
				177 ... 270 V AC	2 MW	5ST3058
Power with extended function	LED	–40 °C ... +70 °C	Acc. to EN 61373/ EN 50155 "1B"	12 ... 30 V AC, 12 ... 48 V DC	2 MW	5ST3070
				170 ... 277 V AC, 77 ... 286 V DC	2 MW	5ST3071 new

Further technical specifications

	5ST3053	5ST3054	5ST3055	5ST3056	5ST3057	5ST3058	5ST3070	5ST3071
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						
Number of remote switching operations per minute	2							
Number of automatic reclose attempts	–				3		–	
Cable length in the control circuit	≤1500 m						≤1500 m (DC)/ ≤200 m (AC)	
Sliding selector with locking device	–	■						
Integrated auxiliary switches	–		1W (1CO); 2 A; 250 V					
Integrated fault signal contact	–		1W (1CO); 2 A; 250 V					
Connections								
Conductor cross-sections	0.5 ... 1.5 mm ² (AWG 14 ... 30)							
Terminal tightening torque	0.2 ... 0.25 Nm (2.0 lb-in)							
Ambient conditions								
Permissible storage temperature	–40 ... +55 °C						–40 ... +70 °C	
Degree of protection	IP20							
Pollution degree for overvoltage category	3/II							

Suitable adapters for combination with basic units



Basic units	Mounting width			Article No.
	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



5SM6 arc fault detection units (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 1P + N (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 suitable for use with 5SY5, 5SY8

Further technical specifications

5SM6

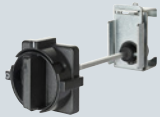
Standards		
Standards		IEC/EN 62606
Supply		
Rated voltage U_n		230 V
Rated current I_n		Up to 16/40 A
Rated frequency		50 Hz
Power loss		0.6 W
Contacts		
Number of poles		2-pole
Service life		Average number of operating cycles
		>10000
Safety		
Touch protection		Acc. to EN 50274 (VDE 0660-514)
		Finger 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 3/58 onwards

Suitable terminals and end caps, page 3/74 onwards

Mechanical accessories

Mechanical rotary operating mechanisms complete with handle



- For 5SY, 5SP4, 5SL (but not for 5SL.0 1P + N in 1TE), 5TL1, 5TE2, 5TE8, 5SU1

Types	Article No.
Handle black	5ST3060
Handle red/yellow	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 and lockable



For miniature circuit breakers	For padlocks with	Article No.
5SP4, 5SY	Max. 3 mm shackle	5ST3801
5SL, 5TL1	3 ... 6 mm shackle	5ST3806

Padlocks



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

Article No.
5ST3802

Locking devices

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

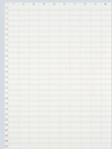






For miniature circuit breakers	Comprising	Article No.
5SP4 and 5SY	5ST3801 handle locking device, 5ST3802 padlock	5ST3803
5SL, 5SV, 5TL1	5ST3806 handle locking device, 5ST3802 padlock	5ST3807

Spacers



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

Mounting width	Article No.
0.5 MW	5TG8240

Device labels		
	<ul style="list-style-type: none"> Adhesive For modular installation devices, e.g. 5SY, 5SL, 5TL1 	
	Types	Article No.
	15 x 6 mm, white (WIN 098)	8WH8210-0AA35
15 x 6 mm, yellow (WIN 099)	8WH8210-0AA36	
Terminal covers, gray		
	<ul style="list-style-type: none"> 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		
	<ul style="list-style-type: none"> 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		
	<ul style="list-style-type: none"> 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		
	<ul style="list-style-type: none"> 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		
	<ul style="list-style-type: none"> Universal use for devices from 1 to 6 MW 	
	Cutout height	Cutout width
	45 ^{+0.5} mm	23, 41, 59, 77, 95 or 113 mm
Article No.	7LF9006	
Intermediate frames		
	<ul style="list-style-type: none"> For 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards 	
	Types	Article No.
	1-tier	8GB4561
	2-tier	8GB4562
	3-tier	8GB4563
4-tier	8GB4564	

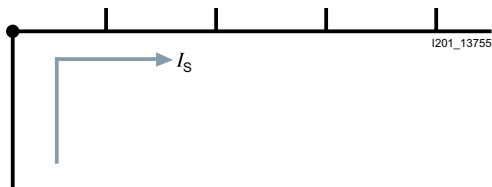
Standard busbars

General information



Infeed

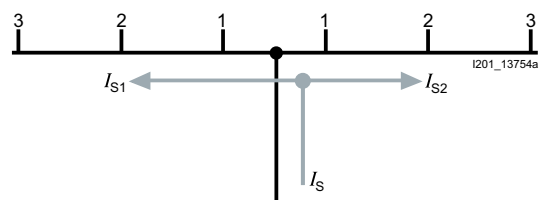
At the start or end of the busbar



Maximum busbar current I_s /phase

- Cross-section 10 mm²: 63 A
- Cross-section 16 mm²: 80 A

Along the busbar or midpoint infeed



Maximum busbar current I_s /phase

- Cross-section 10 mm²: 100 A
- Cross-section 16 mm²: 130 A



Fixed length, cannot be cut

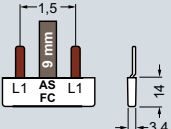
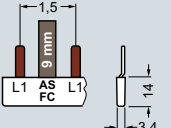
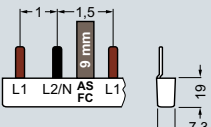
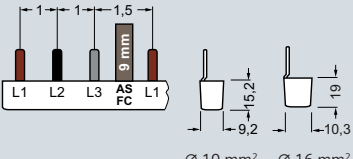
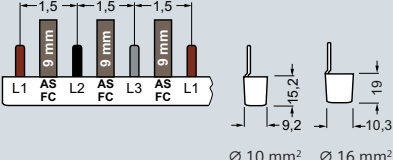
For miniature circuit breakers (MCBs)

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section	
				10 mm ²	16 mm ²
1-phase				Article No.	Article No.
	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
2-phase/1-phase + N				Article No.	Article No.
	For 2 MCBs (2P/1P+N)	4 MW	76 mm	5ST3606	5ST3636
	For 3 MCBs (2P/1P+N)	6 MW	105 mm	5ST3607	5ST3637
	For 6 MCBs (2P/1P+N)	12 MW	210 mm	5ST3608	5ST3638
<p>Ø 10 mm² Ø 16 mm²</p>					
3-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
	For 14 MCBs 1P new	14 MW	250 mm	5ST3613-4	–
<p>Combi pack: 20× 5ST3613 + 10× 5ST3614 + 50× 5ST3615 + 50× 5ST3655</p>				5ST3656	–
<p>Combi pack: 20× 5ST3643 + 10× 5ST3644 + 50× 5ST3645 + 50× 5ST3655</p>				–	5ST3657
4-phase/3-phase + N				Article No.	Article No.
	For 2 MCBs (4P/3P+N)	8 MW	138 mm/ 140 mm	5ST3621	5ST3651
	For 3 MCBs (4P/3P+N)	12 MW	210 mm	5ST3622	5ST3652
<p>Ø 10 mm² Ø 16 mm²</p>					
	For 6 MCBs (1P+N)	12 MW	210 mm	5ST3623	5ST3653
	For 7 MCBs (1P+N) new	14 MW	248 mm	5ST3623-4	–
<p>Ø 10 mm² Ø 16 mm²</p>					

Standard busbars

Fixed length, cannot be cut

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	Conductor cross-section	
				10 mm ²	16 mm ²
1-phase					
	For 2 MCBs 1P	2 MW	40 mm	5ST3603	5ST3633
	For 6 MCBs 1P	6 MW	158 mm	5ST3604	5ST3634
	For 9 MCBs 1P	9 MW	237 mm	5ST3605	5ST3635
2-phase/1-phase + N					
	For 2 MCBs (2P/1P+N)	4 MW	76 mm	–	5ST3640
	For 3 MCBs (2P/1P+N)	6 MW	121 mm	–	5ST3641
	For 5 MCBs (2P/1P+N)	10 MW	210 mm	–	5ST3642
3-phase					
	For 2 MCBs 3P	6 MW	115 mm	5ST3616	5ST3646
	For 4 MCBs 3P	12 MW	237 mm	5ST3617	5ST3647
	For 6 MCBs 1P	9 MW	156 mm/ 158 mm	5ST3618	5ST3648
	For 9 MCBs 1P	12 MW	227 mm	5ST3620	5ST3650

Accessories

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

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



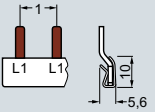

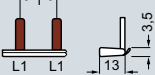
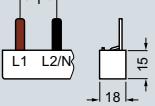
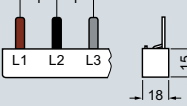
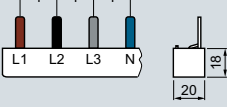

For MCBs with RCCB

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

Standard busbars

Can be cut

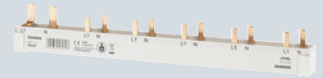
For miniature circuit breakers (MCBs)

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
						Article No.	Article No.
1-phase, straight 	For MCBs 1P+N compact	12 MW	216 mm	■	Gray	5ST3762	–
					Blue	5ST3687-0	–
		56 MW	1016 mm	–	Gray	5ST3764	–
					Blue	5ST3787-0	–
1-phase, angled 45° 	For MCBs 1P+N compact	12 MW	216 mm	■	Blue	5ST3763	–
		56 MW	1016 mm	–	Blue	5ST3765	–
1-phase, angled 90° 	For MCBs 1P	12 MW	214 mm	■		5ST3730	5ST3700
		56 MW	1016 mm	–		5ST3731	5ST3701
2-phase/1-phase + N 	For 2MW devices (2P/1P+N)	12 MW	214 mm	■		5ST3734	5ST3704
		56 MW	1016 mm	–		5ST3735	5ST3705
3-phase 	For MCBs 3P	12 MW	214 mm	■		5ST3738	5ST3708
		56 MW	1016 mm	–		5ST3740	5ST3710
4-phase/3-phase + N 	For MCBs 4P or 3P+N	12 MW	214 mm	■		5ST3745	5ST3715
		56 MW	1016 mm	–		5ST3746	5ST3716
	For RCB/MCBs or MCBs 1P+N	56 MW	1000 mm	–		5ST3770-2	5ST3770-3

Accessories

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
Terminals for Infeed at side		Article No.
For conductors up to 25 mm ²	Short	5ST3768
	Short, IP20	5ST3771-2

End caps		Article No.
For 1-phase busbars (MCB 1P+N compact)	Gray	5ST3766
	Blue	5ST3767
	White	5ST3748
For 2-phase busbars		5ST3750
Touch protection		Article No.
For free connections, yellow (RAL 1004) 5x 1 pin		5ST3655



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	End caps incl.	Conductor cross-section	
					10 mm ²	16 mm ²
1-phase, angled 90°					Article No.	Article No.
	For MCBs 1P	12 MW	214 mm	■	5ST3732	5ST3702
		56 MW	1016 mm	–	5ST3733	5ST3703
2-phase/1-phase + N					Article No.	Article No.
	For 2 MW devices (2P/1P+N)	12 MW	214 mm	■	5ST3736	5ST3706
		56 MW	1016 mm	–	5ST3737	5ST3707
3-phase					Article No.	Article No.
	For MCBs 3P	12 MW	214 mm	■	5ST3741	5ST3711
		56 MW	1016 mm	–	5ST3742	5ST3712
	For MCBs 1P	12 MW	214 mm	■	5ST3743	5ST3713
		56 MW	1016 mm	–	5ST3744	5ST3714
4-phase/3-phase + N					Article No.	Article No.
	For MCBs 1P+N	56 MW	1016 mm	–	5ST3746-2	–

For MCBs equipped with undervoltage release (UR) or shunt trips (ST)

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
2-phase					Article No.	Article No.
	For MCBs 1P with UR/ST	56 MW	1016 mm	–	5ST3735-2	–

Standard busbars



Can be cut

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
4-phase/3-phase + N						
	For RCCB/MCBs	56 MW	1016 mm	–	Article No.	Article No.
	For 6 MCBs 1P+N with 1 RCCB 3P+N, N right	16 MW	292 mm	■	5ST3770-4	5ST3770-5

3

Accessories

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

End caps	Article No.
For 3-phase busbars	5ST3750
For 4-phase busbars	5ST3718
Touch protection	Article No.
For free connections, yellow (RAL 1004) 5x 1 pin	5ST3655

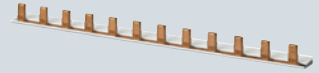


5ST37 acc. to UL 508, can be cut

For miniature circuit breakers (MCBs)

Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	Conductor cross-section	
				18 mm ² Article No.	25 mm ² Article No.
1-phase					
	For MCBs 1P or fuse holders 10 x 38 mm/class CC	56 MW	1000 mm	5ST3701-0HG	–
	For MCBs 1P or fuse holders 14 x 51 mm	56 MW	1000 mm	–	5ST3701-2HG
2-phase					
	For MCBs 2P or fuse holders 10 x 38 mm/class CC	56 MW	1000 mm	5ST3705-0HG	–
	For MCBs 2P or fuse holders 14 x 51 mm	56 MW	1000 mm	–	5ST3705-2HG
3-phase					
	For MCBs 3P or fuse holders 10 x 38 mm/class CC	56 MW	1000 mm	5ST3710-0HG	–
	For MCBs 3P or fuse holders 14 x 51 mm	56 MW	1000 mm	–	5ST3710-2HG

Standard busbars



5ST37 acc. to UL 508, can be cut

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	Conductor cross-section	
				18 mm ²	25 mm ²
1-phase				Article No.	Article No.
	For MCBs 1P	56 MW	1000 mm	5ST3703-0HG	–
2-phase				Article No.	Article No.
	For MCBs 2P	56 MW	1000 mm	5ST3707-0HG	–
3-phase				Article No.	Article No.
	For MCBs 3P	56 MW	1000 mm	5ST3712-0HG	–
	For MCBs 1P	56 MW	1000 mm	5ST3714-0HG	–

Accessories

Terminals according to UL 489		Article No.
For infeed at the device	35 mm ²	5ST3770-0HG
For infeed at the busbar	50 mm ²	5ST3770-1HG
End caps according to UL 508		Article No.
For 1-phase busbars		5ST3748-0HG
For 2 and 3-phase busbars		5ST3750-0HG

Touch protection according to UL 508		Article No.
For open terminals, yellow 5 × 1 pin		5ST3655-0HG



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
1-phase				
	For 6 MCBs 1P	6 MW	100 mm	Article No. 5ST3663-0HG
	For 12 MCBs 1P	12 MW	205 mm	5ST3663-1HG
	For 18 MCBs 1P	18 MW	310 mm	5ST3663-2HG
2-phase				
	For 3 MCBs 2P	6 MW	100 mm	Article No. 5ST3664-0HG
	For 6 MCBs 2P	12 MW	205 mm	5ST3664-1HG
	For 9 MCBs 2P	18 MW	310 mm	5ST3664-2HG
3-phase				
	For 2 MCBs 3P	6 MW	100 mm	Article No. 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	No. of MW	Length	Conductor cross-section 18 mm ²
1-phase				
	For MCBs 1P	56 MW	1016 mm	Article No. 5ST3701-3HG
2-phase				
	For MCBs 2P	56 MW	1016 mm	Article No. 5ST3705-3HG
3-phase				
	For MCBs 3P	56 MW	1016 mm	Article No. 5ST3710-3HG

Standard busbars



5ST3.. according to UL 489 speziell For 5SJ4... -HG..

Can be cut, 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	Conductor cross-section 18 mm ²
1-phase				Article No.
	For MCBs 1P	56 MW	1016 mm	5ST3703-3HG
2-phase				Article No.
	For MCBs 2P	56 MW	1016 mm	5ST3707-3HG
3-phase				Article No.
	For MCBs 3P	56 MW	1016 mm	5ST3712-3HG
	For MCBs 1P	56 MW	1016 mm	5ST3714-3HG

Accessories

Terminals according to UL 489		Article No.
For infeed at the 5SJ4... -HG.. miniature circuit breaker	16 mm ²	5ST3666-0HG
	18 mm ²	5ST3770-3HG
For infeed at the busbar	16 mm ²	5ST3666-2HG
End caps acc. to UL 489		Article No.
For 1, 2 and 3-phase busbars		5ST3750-3HG

Touch protection acc. to UL 489		Article No.
For open terminals, yellow 3x 1 pin	For 5ST37...HG busbars that cannot be cut	5ST3666-1HG
	For 5ST37...-3HG busbars that can be cut	5ST3655-3HG

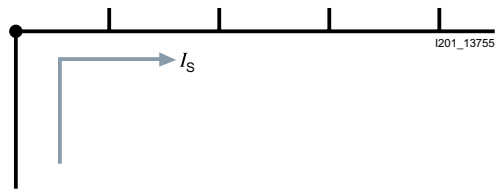
Compact busbars

General information



Infeed

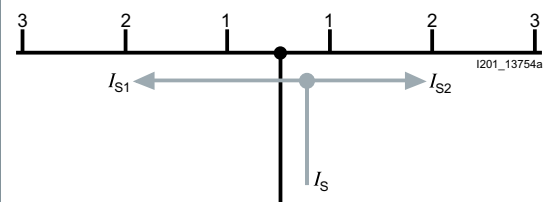
At the start or end of the busbar



Maximum busbar current I_s /phase

- Cross-section 10 mm²: 63 A
- Cross-section 16 mm²: 80 A

Along the busbar or midpoint infeed



Maximum busbar current I_s /phase

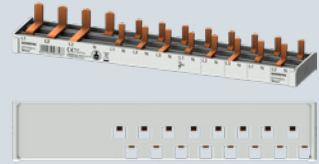
- Cross-section 10 mm²: 100 A
- Cross-section 16 mm²: 130 A

Compact busbars

5ST36, fixed 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
2-phase/1-phase + N, for infeed via RCCB					
	For 1× RCCB 1P+N and 5× compact devices equipped with 5SM6 arc fault detection unit	12 MW	216 mm	■	Article No. 5ST3685-0
2-phase/1-phase + N					
	For compact devices	6 MW 9 MW 12 MW	113 mm 166 mm 218 mm	■ ■ ■	Article No. 5ST3674-6 5ST3674-7 5ST3674-0
	For 12x 5SY17 CBE (device protection switch)	12 MW	218 mm	■	5ST3674-1
	For 6× compact devices equipped with 5SM6 arc fault detection unit	11 MW	200 mm	■	5ST3676-0
4-phase/3-phase + N					
	For compact devices	6 MW 9 MW 12 MW 14 MW	113 mm 116 mm 218 mm 254 mm	■ ■ ■ ■	Article No. 5ST3673-6 5ST3673-7 5ST3673-0 5ST3673-4
	For 6× compact devices equipped with 5SM6 arc fault detection unit	11 MW	200 mm	■	5ST3675-0

3



5ST37, can be cut

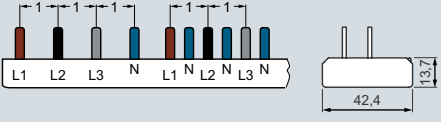
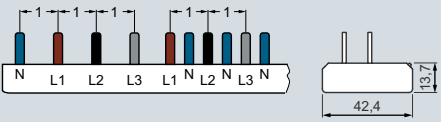
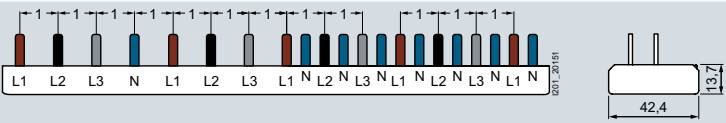
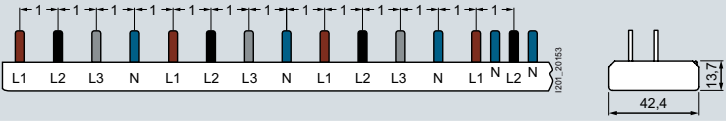
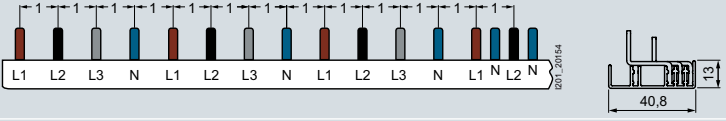
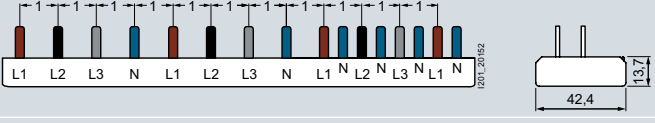
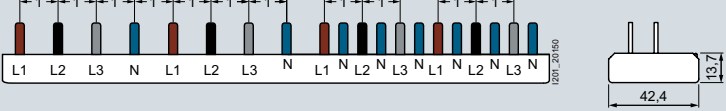
Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Conductor cross-section 10 mm ²
2-phase/1-phase + N, for infeed via RCCB					
	For 1× RCCB 1P+N and 10× compact devices	12 MW	215 mm	■	Article No. 5ST3784-0
	For 1× RCCB 1P+N (RCCB N left only) and 10× compact devices	12 MW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

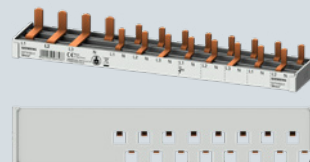
Accessories

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

Compact busbars

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	Article No.
4-phase/3-phase + N, for infeed via RCCB						
	For 1× RCCB 3P+N and 6× compact devices	10 MW	181 mm	■		5ST3783-1 new
	For 1× RCCB 3P+N and 8× compact devices	12 MW	216 mm	■		5ST3783-0
	For 1× RCCB 3P+N and 10× compact devices	14 MW	251 mm	■		5ST3783-4 new
	For 1× RCCB 3P+N (RCCB N left only) and 6× compact devices	10 MW	181 mm	■		5ST3783-1KL new
	For 1× RCCB 3P+N (RCCB N left only) and 8× compact devices	12 MW	216 mm	■		5ST3783-0KL
	For 1× RCCB 3P+N, 1× MCBs 3P and 7× compact devices	14 MW	253 mm	■		5ST3785-4 new
	For 1× RCCB 3P+N, 2× MCBs 3P+N and 12× compact devices	24 MW	430 mm	■		5ST3790-1 new
	For 1× RCCB 3P+N, 2× MCBs 3P+N and 45× compact devices	57 MW	1009 mm –			5ST3790-2 new
	For 1× RCCB 3P+N, 1× MCBs 3P+N and 4× compact devices	12 MW	217 mm	■		5ST3795-0 new
	For 1× RCCB 3P+N, 1× MCBs 3P+N and 6× compact devices	14 MW	253 mm	■		5ST3795-4 new



Pin spacing in MW (1 MW = 18 mm)	Application	No. of MW	Length	End caps incl.	Conductor cross-section 10 mm ²
4-phase/3-phase + N					Article No.
	For compact devices	60 MW	1060 mm	–	5ST3773-0
	For compact devices equipped with 5SM6 arc fault detection unit	59 MW	1042 mm	–	5ST3775-0
	For compact devices equipped with auxiliary switch	59.5 MW	1055 mm	–	5ST3777-0

3








Accessories

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

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 1-phase busbars	Gray	5ST3748
For 2 and 3-phase busbars	Gray	5ST3750
For 4-phase busbars	Gray	5ST3718
For 1, 2 and 3-phase busbars	Gray	5ST3750-3HG
–	Gray	5ST3766
–	Blue	5ST3767
For 1-phase busbars	Gray	5ST3748-0HG
For 2 and 3-phase busbars	Gray	5ST3750-0HG
For 2 and 4-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
		3× cables black and 1× N conductor blue	3+N	5ST3793-3	

Distribution blocks for standard rail mounting

Acc. to IEC



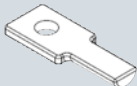
Distribution blocks acc. to IEC

	Number of poles	Rated 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

		5ST2501	5ST2502	5ST2503	
Standards					
Standards		IEC 60947-7-1			
Supply					
Rated operational voltage AC		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)		3.5 ... 5 lb-in (2 Nm)	
	Tools	PZ2			
Outputs	Screw terminals	Large	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	
		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		IP20			
Approved cable		Copper			

According to IEC and UL

Distribution blocks acc. to IEC and UL					
	Number of poles	Rated 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					
	<ul style="list-style-type: none"> • Touch protection • 20 mm² • 32 mm 				
	Version	Article No.			
	1-phase	5ST2506			
Terminal lug for ring terminal ends					
	Types				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							
Rated 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	–	–	–
	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	–	–	–
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	–
		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× 2.5... 25 mm ²	–
			AWG 4× 14 ... 10	AWG 6× 14 ... 6	AWG 6× 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 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)	
		Small	7 ... 13.2 lb-in (0.8 ... 1.5 Nm)	–			18 ... 27 lb-in (2 ... 3 Nm)
	Tools	Large	PZ2			Standard screwdriver	
		Small	PZ1	PZ2	Standard screwdriver		
Safety							
Rated peak withstand current I_{pk}			2.7 kA	30 kA		51 kA	
Rated short-time withstand current I_{cw} (1 s)			1.9 kA	4.2 kA	11 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 protection	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				
	<ul style="list-style-type: none"> For connection to cables 4/6 mm² 			Article No.
				5ST2532
Mounting brackets				
	<ul style="list-style-type: none"> For mounting on the rear of the standard mounting rail (pair) 			Article No.
				5ST2533

Further technical specifications

5ST25..

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



Appendix



Conditions of sale and delivery _____ A/2

Link directory _____ A/4

Conditions of sale and delivery

1. General Provisions

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

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

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

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for stand-alone software products and software products forming a part of a product or project, the „General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany“¹⁾ and/or
- for consulting services the „Allgemeine Geschäftsbedingungen für Beratungsleistungen der Division DF – Deutschland“ (available only in German) and/or
- for other services, the „Supplementary Terms and Conditions for Services (‘BL’)¹⁾ and/or
- for other supplies the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“¹⁾.

In case such supplies should contain Open Source Software, the conditions of which shall prevail over the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry“¹⁾, a notice will be contained in the scope of delivery in which the applicable conditions for Open Source Software are specified. This shall apply mutatis mutandis for notices referring to other third party software components.

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

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

- for products, which include specific terms and conditions in the description text, these specific terms and conditions shall apply and subordinate thereto,
- for consulting services the „Standard Terms and Conditions for Consulting Services of the Division DF for Customers with a Seat or Registered Office Outside of Germany“¹⁾ and/or
- for other services the „International Terms & Conditions for Services“¹⁾ supplemented by „Software Licensing Conditions“¹⁾ and/or
- for other supplies of hard- and software the „International Terms & Conditions for Products“¹⁾ supplemented by „Software Licensing Conditions“¹⁾

1.3 For customers with master or framework agreement

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

2. Additional Terms and Conditions

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

Illustrations are not binding.

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

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

3. Export Regulations

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

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

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

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

Products without label, with label „AL:N“/„ECCN:N“, or label „AL:9X9999“/„ECCN: 9X9999“ may require authorization from responsible authorities depending on the final end-use, or the destination.

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Prior to any transfer of goods, works and services provided by us to a third party you shall in particular check and guarantee by appropriate measures that

- there will be no infringement of an embargo imposed by the European Union, by the United States of America and/or by the United Nations by such transfer, by brokering of contracts concerning those goods, works and services or by provision of other economic resources in connection with those goods, works and services, also considering the limitations of domestic business and prohibitions of by-passing those embargos;
- such goods, works and services are not intended for use in connection with armaments, nuclear technology or weapons, if and to the extent such use is subject to prohibition or authorization, unless required authorization is provided;
- the regulations of all applicable Sanctioned Party Lists of the European Union and the United States of America concerning the trading with entities, persons and organizations listed therein are considered.

If required to enable authorities or us to conduct export control checks, you, upon request by us, shall promptly provide us with all information pertaining to the particular end customer, the particular destination and the particular intended use of goods, works and services provided by us, as well as any export control restrictions existing.

You acknowledge that under the EU embargo regulations against Iran, Syria and Russia respectively the sale of certain listed goods and related services is subject to authorization by the competent export control authorities of the European Union. If (1) the goods or services ordered by you are destined for Iran, Syria or Russia, and (2) the contract for our supplies and/or services is subject to prior authorization of the competent export control authorities of the European Union, the contract between you and us shall come into force in this respect only upon granting of such authorization.

The products listed in this catalog may be subject to European/ German and/or US export regulations. Any export requiring approval is therefore subject to authorization by the relevant authorities. Errors excepted and subject to change without prior notice.

Link directory

Catalog LV 10

General information

Information on low-voltage power distribution and electrical installation technology	www.siemens.com/lowvoltage
Tender specifications	www.siemens.com/lowvoltage/tenderspecifications
Conversion tool	www.siemens.com/conversion-tool
Image database	www.siemens.com/lowvoltage/picturedb
CAX download manager	www.siemens.com/cax
Newsletter system	www.siemens.com/lowvoltage/newsletter
Siemens YouTube channel	www.youtube.com/Siemens
Brochures/catalogs	www.siemens.com/lowvoltage/catalogs
Operating instructions/manuals	www.siemens.com/lowvoltage/manuals
Siemens Industry Online Support (SIOS)	www.siemens.com/lowvoltage/product-support
Siemens Industry Online Support app	www.siemens.com/support-app
My Documentation Manager (MDM)	www.siemens.com/lowvoltage/mdm
Configurators	www.siemens.com/lowvoltage/configurators
Siemens Industry Mall – product catalog and online ordering system	www.siemens.com/lowvoltage/mall
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Energy Suite	www.siemens.com/energysuite
SITOP power supplies	www.siemens.com/sitop
Power distribution with Totally Integrated Power	www.siemens.com/tip

Catalogs and further information



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

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

PDF (E86060-K8280-A101-B4-7600)



LV 14 Power Monitoring Made Simple SENTRON

PDF (E86060-K1814-A101-A8-7600)



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

PDF (E86060-K8280-E347-A7-7600)



ET D1 Switches and Socket Outlets DELTA

PDF



IC 10 Industrial Controls SIRIUS

PDF (E86060-K1010-A101-B3-7600)



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

www.siemens.com/tst



SITRAIN Digital Industry Academy

www.siemens.com/sitrain

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

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

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