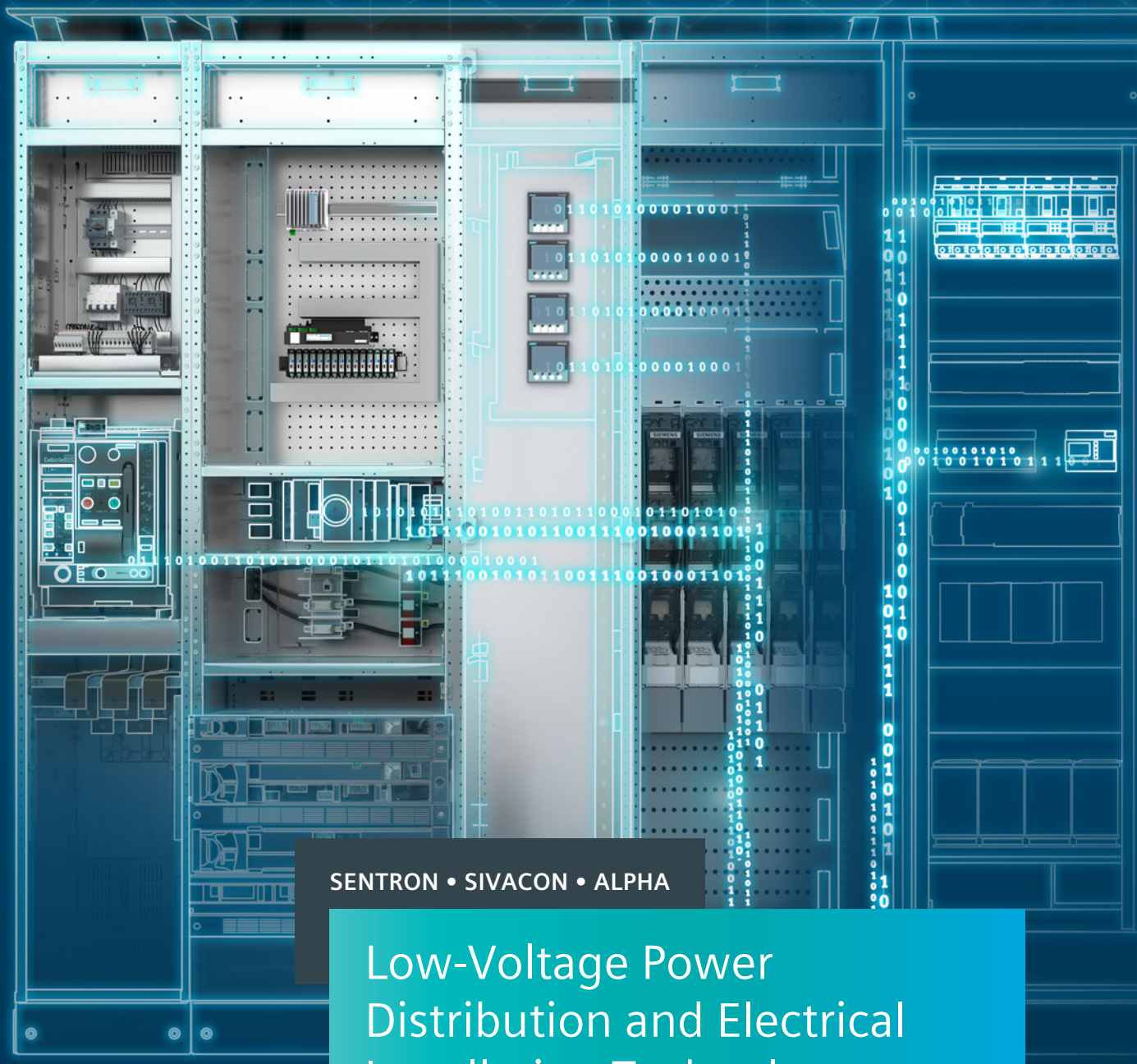
© Siemens 2020

SIEMENS



SENTRON • SIVACON • ALPHA

# Low-Voltage Power Distribution and Electrical Installation Technology

## Miniature Circuit Breakers

Catalog Extract LV 10

Edition 04/2020

siemens.com/lowvoltage

© Siemens 2020

# Making sure power makes its way

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

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

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

## We are there when you need us

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


## Catalog LV 10 · 04/2020

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

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

All illustrations are not binding.

© Siemens 2020

© Siemens 2020



# Low-Voltage Power Distribution and Electrical Installation Technology


| | | |
|---|---|---|
| | Introduction | I/2 |
| Protecting | Air Circuit Breakers | 1/1 |
| | Molded Case Circuit Breakers | 2/1 |
| | Miniature Circuit Breakers | 3/1 |
| | Residual Current Protective Devices / Arc Fault Detection Devices (AFDDs) | 4/1 |
| | Switching Devices | 5/1 |
| | Overvoltage Protection Devices | 6/1 |
| | Fuse Systems | 7/1 |
| Protecting, Switching and Isolating | Switch Disconnectors | 8/1 |
| Switching and Isolating | Transfer Switching Equipment and Load Transfer Switches | 9/1 |
| Measuring and Monitoring | Measuring Devices, Power Monitoring and Digitalization Solutions | 10/1 |
| | Monitoring Devices | 11/1 |
| Distribution | Transformers, Power Supply Units and Socket Outlets | 12/1 |
| | Busbar Systems | 13/1 |
| | Terminal Blocks | 14/1 |
| | Power Distribution Boards, Motor Control Centers and Distribution Boards | 15/1 |
| | Busbar Trunking Systems | 16/1 |
| | System Cubicles, System Lighting and System Air-Conditioning | 17/1 |
| | Appendix | A/1 |

© Siemens 2020

## Protecting electrical installations from damage

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

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

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

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

© Siemens 2020



# Miniature Circuit Breakers

All the information you need 3/2

Devices for all applications 3/4

System overview 3/5

Quick selection guide 3/6

- Miniature circuit breakers 3/6
- Device protection switches 3/10

Basic units 3/12

- 5SL3 miniature circuit breakers 3/12
- 5SL6 miniature circuit breakers 3/14
- 5SL4 miniature circuit breakers 3/16
- 5SJ6...-.KS miniature circuit breakers 3/18
- 5SL30 miniature circuit breakers 3/20
- 5SL60 miniature circuit breakers 3/22
- 5SY6 miniature circuit breakers 3/24
- 5SY4 miniature circuit breakers 3/26
- 5SP4 miniature circuit breakers 3/28
- 5SY5 miniature circuit breakers 3/30
- 5SY7 miniature circuit breakers 3/32
- 5SY8 miniature circuit breakers 3/34
- 5SJ4..HG.. miniature circuit breakers 3/36
- 5SP3 selective main miniature circuit breakers (SHU) 3/38
- 5SY17 device protection switches 3/40
- 5SK9 device protection switches 3/41

Accessories 3/42

- Overview of the modular system 3/42
- Electrical accessories 3/44
- Mechanical accessories 3/52
- Standard busbars 3/54
- Compact busbars 3/64
- Accessories for busbars 3/66
- Distribution blocks for standard rail mounting 3/72
- SIKclip wiring system 3/75

© Siemens 2020



# A multitude of additional information ...

## Information + ordering

### All the important things at a glance

#### Information to get you started

For information about miniature circuit breakers, please visit our website
www.siemens.com/mcb
www.siemens.com/protection-concept

### Contact persons in your region

#### We are there when you need us

You can find your local contacts at
www.siemens.com/lowvoltage/contact

### Your product in detail

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

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

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

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

### Siemens YouTube channel

#### Our video range

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

### Everything you need for your order

Refer to the Industry Mall for an overview of your products

- Miniature circuit breakers sie.ag/2kTFXI5

Direct forwarding to the individual products in the Industry Mall by clicking on the Article No. in the catalog or by entering this web address incl. Article No.
www.siemens.com/product?Article No.

© Siemens 2020



# … can be found in our online services

## Commissioning + operation

### Your product in detail

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

- Operating instructions
- Characteristic curves
- Certificates

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

### Manuals

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

- Configuration manual – Miniature circuit breakers (45302792)

### The fast track to the experts

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

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

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

You can find further information on services at
www.siemens.com/service-catalog

### Training and tutorials

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

- Protection concept (WT-LVBPC)

### Technical overview – 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)

© Siemens 2020



# 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

## Device protection switches for advanced applications

### Ideal for devices in industry

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

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

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

© Siemens 2020



# 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..

### 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)

Shunt trip (ST)

Undervoltage releases (UR)

Remote controlled mechanisms (RC mech.)

5SM6 arc fault detection devices

### Mechanical accessories

Rotary operating mechanisms

Spacers

Terminal covers

Wall enclosures

Molded-plastic enclosures

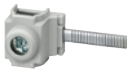
Holders for front panel installation

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.

© Siemens 2020



# Miniature circuit breakers

## For basic applications for buildings and infrastructure

| | | | 5SL3 | 5SL6 |
|---|---|---|---|---|
| **Standards** | | | | |
| Standards | | | IEC/EN 60898-1 | IEC/EN 60898-1 |
| **Basic data** | | | | |
| Breaking capacity $I_{cn}$ for AC (230/400 V) acc. to IEC/EN 60898-1 AC | | kA | 4.5 | 6 |
| Rated current | | A | 0.3 ... 63 | 0.3 ... 63 |
| Number of poles | | | 1P \| 2P \| 3P \| 4P \| 1P+N \| 3P+N | 1P \| 2P \| 3P \| 4P \| 1P+N \| 3P+N |
| Tripping characteristic | | | B \| C | B \| C |
| **Approvals** | | | | |
| General product approvals | | | VDE, CEBEC, TSE | VDE, CEBEC, TSE |
| Marine classifications | | | – | – |
| **Operational voltage** | | | | |
| Max. AC, acc. to EN 60898-1/-2, EN 60947-2 | | V | 250/440 | 250/440 |
| Max. DC per pole, acc. to EN 60898-1/-2, EN 60947-2 | | V | 60 | 60 |
| Max. AC, acc. to UL 1077, CSA C22.2 No.235 | | V | – | – |
| Rated voltage AC, acc. to UL 489 | | V | – | – |
| Rated impulse withstand voltage $U_{imp}$ | | kV | 4 | 4 |
| Rated frequency $f_n$ | | Hz | 50/60 | 50/60 |
| **Connection** | | | | |
| Dual-chamber terminal | | | – | – |
| Conductor cross-section 1 wire | Solid/stranded | $mm^2$ | 0.75 ... 35 | 0.75 ... 35 |
| | Finely stranded with end sleeve | $mm^2$ | 0.75 ... 25 | 0.75 ... 25 |
| | Finely stranded without end sleeve | $mm^2$ | 1 ... 35 | 1 ... 35 |
| Conductor cross-section 2 wires (same cross-section and same conductor type) | Solid/stranded | $mm^2$ | 0.75 ... 10 | 0.75 ... 10 |
| | Finely stranded with end sleeve | $mm^2$ | 0.75 ... 4 | 0.75 ... 4 |
| | Finely stranded without end sleeve | $mm^2$ | 1 ... 4 | 1 ... 4 |
| Conductor cross-section 1-wire + busbar (pin thickness 1.5 mm) | Solid/stranded | $mm^2$ | 10 ... 25 | 10 ... 25 |
| | Finely stranded with non-insulated end sleeve | $mm^2$ | 6 ... 25 | 6 ... 25 |
| | Finely stranded with insulated end sleeve | $mm^2$ | 6 ... 16 | 6 ... 16 |
| **Ambient conditions** | | | | |
| Ambient temperature | | °C | –25 ... +45 [1] | –25 ... +45 [1] |
| Storage temperature | | °C | –40 ... +75 [3] | –40 ... +75 [3] |
| Shock acc. to IEC 60068-2-27 150 $m/s^2$ at 11 ms half-sine | | | – | – |
| Resistance to vibrations acc. to IEC 60068-2-6 50 $m/s^2$ at 25 ... 150 Hz and 60 $m/s^2$ at 35 Hz (4 s) | | | – | – |
| Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering) | | | – | – |
| Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles) | | | – | – |
| Pollution degree for overvoltage category | | | 2/III | 2/III |
| **More information** | | | | |
| Catalog LV 10 | | | See page 3/12 | See page 3/14 |

[1] Periodically +55 °C, max. 95% humidity
[2] Max. 95% humidity
[3] 95% humidity up to 55 °C



System overview, page 3/5

© Siemens 2020





| | | | | |
|---|---|---|---|---|
| **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 | – |
| 0.3 ... 63 | 10 ... 20 | 2 ... 40 | 2 ... 40 | 16 ... 100 |
| 1P \| 2P \| 3P \| 4P \| 1P+N \| 3P+N | 1P \| 2P \| 3P \| 1P+N | 1P+N | 1P+N | 1P \| 2P \| 3P \| 4P |
| B \| C \| D | B \| C | C | B \| C | E |
| VDE, CEBEC, IMQ | VDE | VDE, IMQ, NF, CCC | VDE, IMQ, NF, CCC | VDE |
| – | – | – | DNV-GL | – |
| 250/440 | 250/440 | 250 | 250 | – |
| 60 | 60 | 72 | 72 | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 4 | 4 | 4 | 4 | 4 |
| 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| – | Plug-in terminal on outgoing side | – | – | – |
| 0.75 ... 35 | 1.5 ... 4 (top) \| 0.75 ... 25 (bottom) | 0.75 ... 16 | 0.75 ... 16 | 2.5 ... 50 (bottom) |
| 0.75 ... 25 | 1.5 ... 2.5 (top) \| 0.75 ... 25 (bottom) | 0.75 ... 10 | 0.75 ... 10 | 2.5 ... 50 (bottom) |
| 1 ... 35 | 1.5 ... 4 | | | 2.5 ... 16 (top) |
| 0.75 ... 10 | – | – | – | – |
| 0.75 ... 4 | – | – | – | – |
| 1 ... 4 | – | – | – | – |
| 10 ... 25 | – | – | – | – |
| 6 ... 25 | – | – | – | – |
| 6 ... 16 | – | – | – | – |
| –25 ... +55 [2] | –25 ... +45 [1] | –25 ... +45 [1] | –25 ... +45 [1] | –25 ... +55 |
| –40 ... +75 [3] | –40 ... +75 [3] | –40 ... +75 | –40 ... +75 | –40 ... +70 |
| – | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| – | – | – | – | – |
| 2/III | 2/III | 2/III | 2/III | 3/IV |
| See page 3/16 | See page 3/18 | See page 3/20 | See page 3/22 | See page 3/38 |

© Siemens 2020



# Miniature circuit breakers

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

| | | | 5SY6 | 5SY4 |
|---|---|---|---|---|
| **Standards** | | | | |
| Standards | | | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077 | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077 |
| **Basic data** | | | | |
| Breaking capacity $I_{cn}$ | For AC (230/400 V) acc. to IEC/EN 60898-1 AC | kA | 6 | 10 |
| | Acc. to UL1077 and CSA C22.2 No.235 | | Suplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | Suplementary 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 |
| | $I_n$ 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 | 0.3 ... 63 | 0.3 ... 80 |
| Number of poles | | | 1P \| 2P \| 3P \| 4P \| 1P+N \| 3P+N | 1P \| 2P \| 3P \| 4P \| 1P+N \| 3P+N |
| Tripping characteristic | | | B \| C | A \| B \| C \| D |
| **Approvals** | | | | |
| General product approvals | | | VDE, IMQ, CCC, cULus | VDE, IMQ, CCC, cULus |
| Marine classifications | | | DNV-GL, LR, BV, RINA, ABS | DNV-GL, LR, BV, RINA, ABS |
| **Operational voltage** | | | | |
| Max. AC | Acc. to EN 60898-1/-2, EN 60947-2 | V | 250/440 | 250/440 |
| | Acc. to UL 1077, CSA C22.2 No.235 | V | 277/480 | 277/480 |
| Max. DC per pole | Acc. to EN 60898-1/-2, EN 60947-2 | V | 72 [1] | 72 [1] |
| Rated voltage AC | Acc. to UL 489 | V | – | – |
| Rated impulse withstand voltage $U_{imp}$ | | kV | 4 | 4 |
| Rated frequency $f_n$ | | Hz | 50/60 | 50/60 |
| **Connection** | | | | |
| Dual-chamber terminal | | | ■ | ■ |
| Conductor cross-section 1 wire | Solid/stranded | mm² | 0.75 ... 35 | 0.75 ... 35 |
| | Finely stranded, with end sleeve | mm² | 0.75 ... 25 | 0.75 ... 25 |
| | Conductors (Cu 60/75 °C $I_n$ ≤40 A; 60 °C $I_n$ >40 A) | | AWG 18 ... 4 | AWG 18 ... 4 |
| Terminal tightening torque | | Nm | 2.5 ... 3.5 max. | 2.5 ... 3.5 max. |
| | | lb-in | 22 ... 26 | 22 ... 26 |
| **Ambient conditions** | | | | |
| Ambient temperature | | °C | –25 ... +55 [4] | –40 ... +70 [3] |
| Storage temperature | | °C | –40 ... +75 [3] | –40 ... +75 [3] |
| Shock acc. to IEC 60068-2-27 150 m/s² at 11 ms half-sine | | | ■ | ■ |
| Resistance to vibrations acc. to IEC 60068-2-6 50 m/s² at 25 ... 150 Hz and 60 m/s² at 35 Hz (4 s) | | | ■ | ■ |
| Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering) | | | – | ■ |
| Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles) | | | – | ■ |
| Pollution degree for overvoltage category | | | 3/III | 3/III [2] |
| **More information** | | | | |
| Catalog LV 10 | | | 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
95% rel. humidity up to +55°C
55% rel. humidity up to +70°C
[4] Max. 95% humidity
[5] When used with a busbar at the front or 2 conductors, the terminal area at the rear is restricted, see notes on the Internet



System overview, page 3/5

© Siemens 2020





| | | | | |
|---|---|---|---|---|
| **5SP4** | **5SY5** | **5SY7** | **5SY8** | **5SJ4..HG..** |
| IEC/EN 60898-1<br>UL 1077 | IEC/EN 60898-2<br>UL 1077 | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077 | IEC/EN 60947-2<br>UL 1077 | IEC/EN 60947-2<br>UL 489 |
| 10 | 10 | 15 | 25 | – |
| Suplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | Suplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | Suplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | Suplementary protector, OC, FW 0, OL 0, TC 3 at 50°C | – |
| U2: see Certificate of Compliance | U2: see Certificate of Compliance | U2: see Certificate of Compliance | U2: 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, cULus | VDE, CCC, cULus | VDE, IMQ, CCC, cULus | cULus | VDE, CCC, UL |
| 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 | 72 [1] | 72 [1] | 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) [5] |
| 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 ... +55 [4] | –40 ... +70 [3] | –40 ... +70 [3] | –25 ... +55 [4] | –25 ... +55 [4] |
| –40 ... +75 [3] | –40 ... +75 [3] | –40 ... +75 [3] | –40 ... +75 [3] | –40 ... +75 [3] |
| – | ■ | ■ | – | ■ |
| ■ | ■ | ■ | ■ | ■ |
| – | ■ | ■ | – | – |
| ■ | ■ | ■ | – | – |
| 3/III | 3/III | 3/III | 3/III | 3/III |
| See page 3/28 | See page 3/30 | See page 3/32 | See page 3/34 | See page 3/36 |

© Siemens 2020



# Device protection switches

## For advanced applications for industry and machine manufacturing

| | | | 5SY17 |
|---|---|---|---|
| **Standards** | | | |
| Standards | | | IEC 60934<br>UL 1077 |
| **Basic data** | | | |
| Breaking capacity $I_{cn}$ | for AC (230/400 V) acc. to IEC/EN 60898-1 AC | kA | 3 |
| Rated current | | A | 0.5 ... 16 |
| Number of poles | | | 1P+AS |
| DC tripping | Magnetic | | F1 (2.5 ... 4 × $I_n$) \| F2 (4 ... 7 × $I_n$) |
| | Thermal | | 1.05 × holding current \| 1.35 × tripping current \|<br>TC3 1.35 × $I_n$ |
| | Electronic | | – |
| Service life | Actuations | | 6000 |
| **Approvals** | | | |
| General product approvals | | | CCC,<br>c UL us |
| **Operational voltage** | | | |
| Max. AC | Acc. to EN 60898-1/-2, EN 60947-2 | V | 250 |
| | Acc. to UL 1077, CSA C22.2 No.235 | V | 277 |
| Max. DC per pole | | V | 72 |
| Rated impulse withstand voltage $U_{imp}$ | | kV | 4 |
| Rated frequency $f_n$ | | Hz | 50/60 |
| **Connection** | | | |
| Dual-chamber terminal | | | – |
| Conductor cross-section 1 wire | Solid/stranded | $mm^2$ | 0.75 ... 16 |
| | Finely stranded with end sleeve | $mm^2$ | 0.75 ... 10 |
| | Finely stranded with insulated end sleeve | $mm^2$ | 0.75 ... 10 |
| | Finely stranded without end sleeve | $mm^2$ | 0.75 ... 16 |
| | Conductor cross-section AWG | | – |
| 2-wire (same cross-section) | Solid/stranded | $mm^2$ | 0.75 ... 4 |
| | Finely stranded with end sleeve | $mm^2$ | 0.75 ... 2.5 |
| | Finely stranded with insulated end sleeve | $mm^2$ | 0.75 ... 1.5 |
| | Finely stranded without end sleeve | $mm^2$ | 0.75 ... 4 |
| Terminal tightening torque | | Nm | 2.0 ... 2.5 max. |
| | | lb-in | 17.7 ... 22.1 |
| **Ambient conditions** | | | |
| Ambient temperature | | °C | –25 ... +60 |
| Storage temperature | | °C | –40 ... +70 |
| Shock acc. to IEC 60068-2-27 150 m/s² at 11 ms half-sine | | | – |
| Resistance to vibrations acc. to IEC 60068-2-6 50 m/s² at 25 ... 150 Hz and 60 m/s² at 35 Hz (4 s) | | | – |
| Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering) | | | – |
| Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles) | | | – |
| Pollution degree for overvoltage category | Acc. to IEC | | 2/III |
| **More information** | | | |
| Catalog LV 10 | | | See page 3/40 |

[1] Max. 95% humidity



System overview, page 3/5

© Siemens 2020

## 5SK9

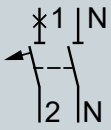
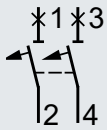
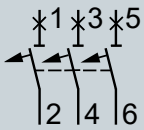
| |
|---|
| EN 61000-6-2, EN 61000-6-3, EN 60068-2-78, EN 50178, EN 60068-2-6, EN 60068-2-27, UL 508, UL 2367 |
| – |
| 1 ... 8 |
| 1P+AS |
| – |
| – |
| Overload 1.2 × $I_n$ / 1s \| Short-circuit 2 × $I_n$ / <10 ms |
| – |
| c UL us |
| – |
| – |
| 30 |
| 0.5 |
| – |
| – |
| 0.2 ... 4 |
| 0.2 ... 2.5 |
| 0.2 ... 2.5 |
| – |
| AWG 24 ... 12 |
| – |
| – |
| – |
| – |
| – |
| – |
| –25 ... +60 [1] |
| –40 ... +70 |
| – |
| – |
| – |
| – |
| – |
| See page 3/41 |

© Siemens 2020

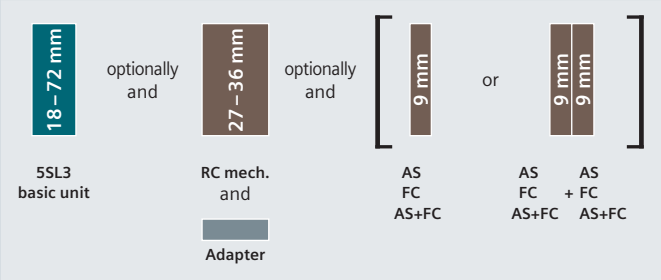


# 5SL3 miniature circuit breakers

## 4.5 kA

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

## Mounting concept

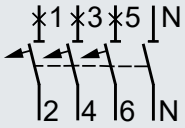
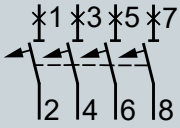



| | | |
|---|---|---|
| AS | Auxiliary switches | See page 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 |
| RC mech. | Remote controlled mechanisms | See page 3/50 |



System overview, page 3/5

© Siemens 2020

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

## Accessories

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

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

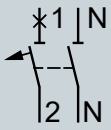
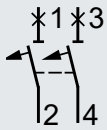
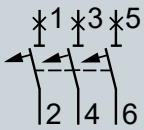
System overview, page 3/5

© Siemens 2020

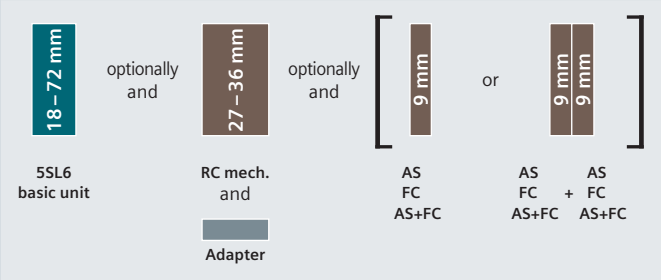


# 5SL6 miniature circuit breakers

## 6 kA

| | 1P<br>230/400 V AC | | 1P+N<br>230 V AC | | 2P<br>400 V AC | | 3P<br>400 V AC | |
|---|---|---|---|---|---|---|---|---|
| Mounting width | 1 MW | | 2 MW | | 2 MW | | 3 MW | |
| | | |  | |  | |  | |
| Rated current $I_n$ | Characteristic | | Characteristic | | Characteristic | | Characteristic | |
| | B | C | B | C | B | C | B | C |
| 0.3 A | – | 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

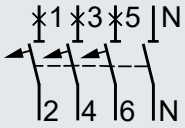
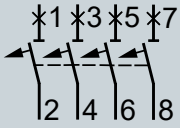



| | | |
|---|---|---|
| AS | Auxiliary switches | See page 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 |
| RC mech. | Remote controlled mechanisms | See page 3/50 |



System overview, page 3/5

© Siemens 2020

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

## Accessories

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

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

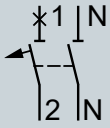
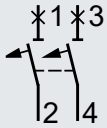
System overview, page 3/5

© Siemens 2020

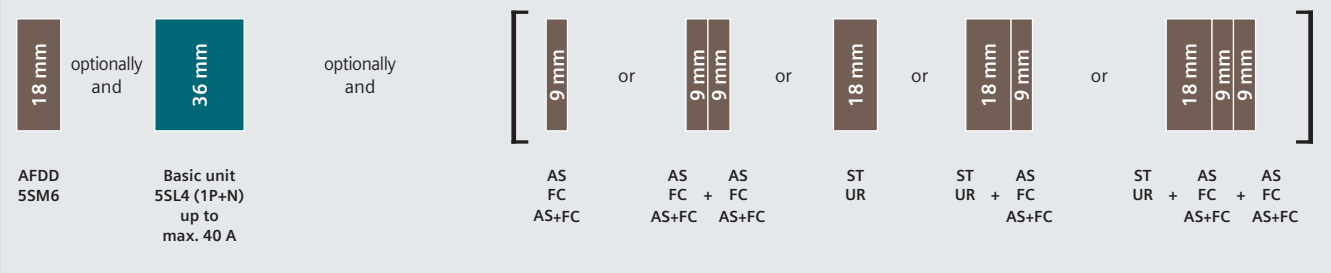


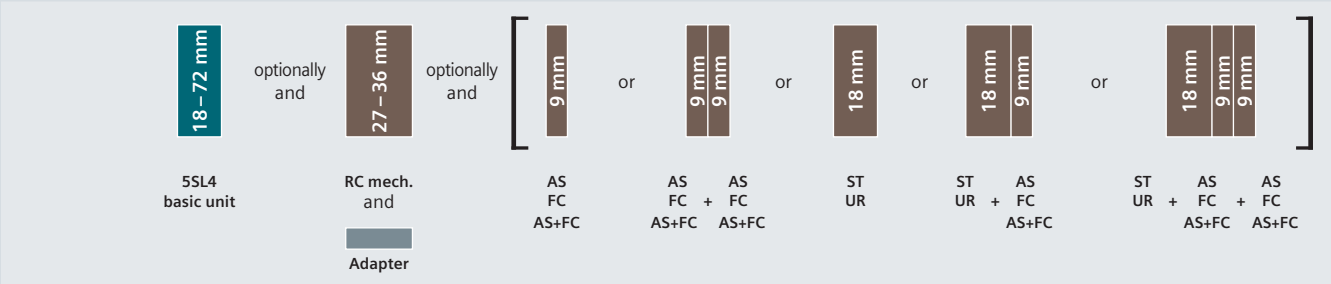
# 5SL4 miniature circuit breakers

## 10 kA

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

## Mounting concept



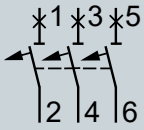
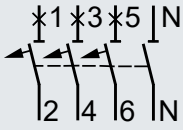
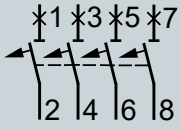




AFDD Arc fault detection devices See page 3/51
AS Auxiliary switches See page 3/44
FC Fault signal contacts See page 3/46
AS+FC Auxiliary switches and fault signal contacts See page 3/47
ST Shunt trip See page 3/48
UR Undervoltage releases See page 3/49
RC mech. Remote controlled mechanisms See page 3/50



System overview, page 3/5

© Siemens 2020

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

## Accessories

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

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

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

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

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

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

| Adapters for remote controlled mechanisms (RC mech.) | Article No. |
|---|---|
| 1–2 MW | 5ST3820-6 |
| 3–4 MW | 5ST3820-7 |

| Arc fault detection devices (AFDD) | | Article No. |
|---|---|---|
| For basic units 1P+N (2 MW), not in combination with RC mech. | $I_n$ up to 16 A | 5SM6021-2 |
| | $I_n$ up to 40 A | 5SM6024-2 |

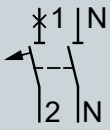
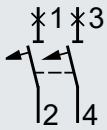
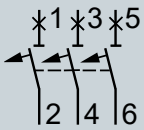
System overview, page 3/5

© Siemens 2020



# 5SJ6...-.KS miniature circuit breakers

## 6 kA – plug-in terminal on outgoing side

| | 1P<br>230/400 V AC | | 1P+N<br>230/400 V AC | | 2P<br>230/400 V AC | | 3P<br>230/400 V AC | |
|---|---|---|---|---|---|---|---|---|
| Mounting width | 1 MW | | 2 MW | | 2 MW | | 3 MW | |
| | | |  | |  | |  | |
| Rated current $I_n$ | Characteristic | | Characteristic | | Characteristic | | Characteristic | |
| | B | C | B | C | B | C | B | C |
| 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 |





System overview, page 3/5

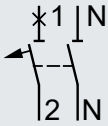
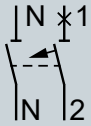
© Siemens 2020

© Siemens 2020

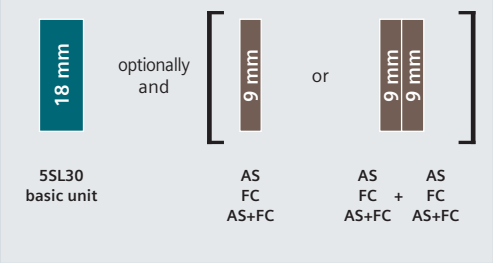


# 5SL30 miniature circuit breakers

## 1P+N 4.5 kA compact miniature circuit breakers

| | 1P+N (N pole right)<br>230 V AC | 1P+N (N pole left)<br>230 V AC |
|---|---|---|
| Mounting width | 2 MW | 2 MW |
| |  |  |
| Rated current $I_n$ | Characteristic<br>C | Characteristic<br>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 | See page 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 |



System overview, page 3/5

© Siemens 2020

## 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 |

System overview, page 3/5

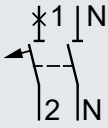
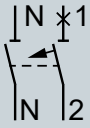
© Siemens 2020



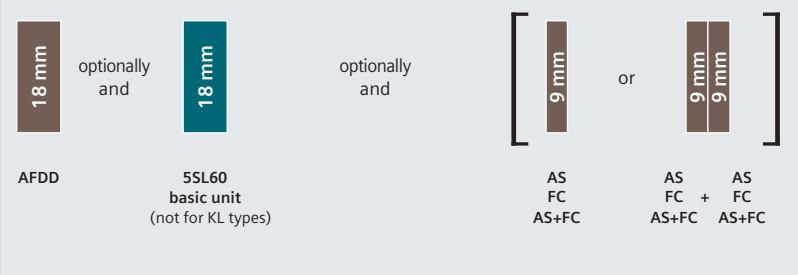
# 5SL60 miniature circuit breakers

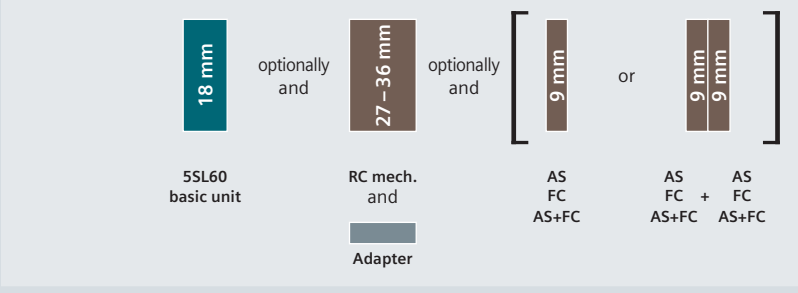
## 1P+N 6 kA compact miniature circuit breakers



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

## Mounting concept




| | | |
|---|---|---|
| AFDD | Arc fault detection devices | See page 3/51 |
| AS | Auxiliary switches | See page 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 |
| RC mech. | Remote controlled mechanisms | See page 3/50 |



System overview, page 3/5

© Siemens 2020

## Accessories

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

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

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

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

| Adapters for remote controlled mechanisms (RC mech.) | Article No. |
|---|---|
| 1 MW | 5ST3820-6 |

| Arc fault detection devices (AFDD) | | Article No. |
|---|---|---|
| For basic units 1P + N (1 MW), not for KL types | $I_n$ up to 16 A | 5SM6011-2 |
| | $I_n$ up to 40 A | 5SM6014-2 |

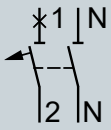
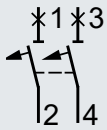
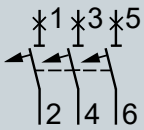
System overview, page 3/5

© Siemens 2020

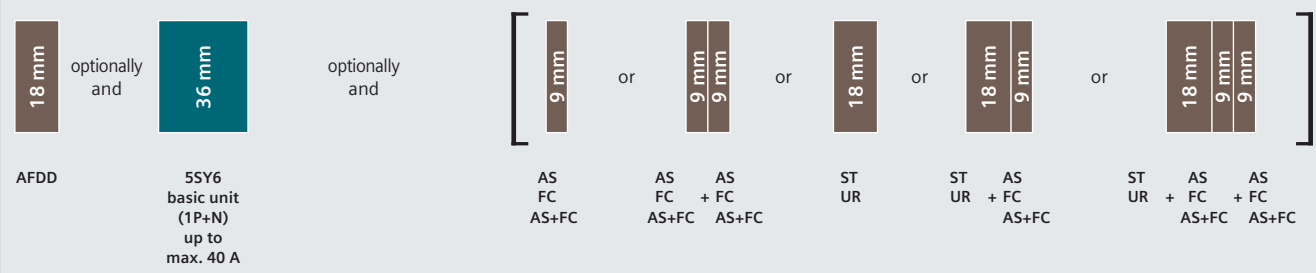


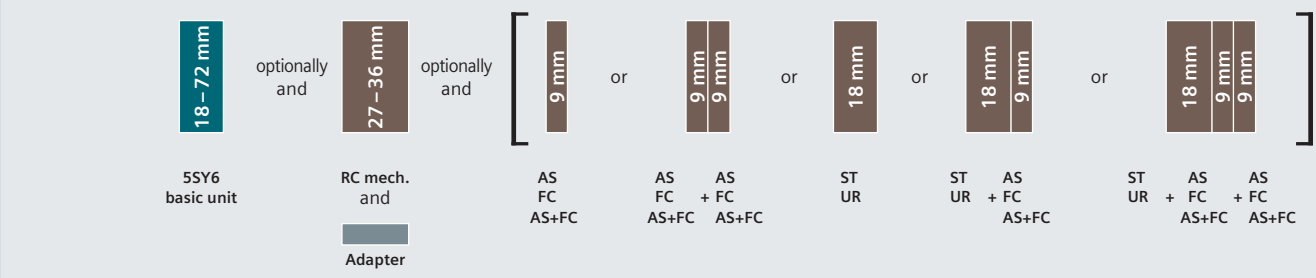
# 5SY6 miniature circuit breakers

## 6 kA

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

## Mounting concept



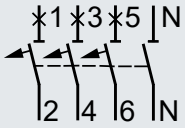
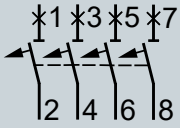




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| AFDD | Arc fault detection devices | See page 3/51 | AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 | UR | Undervoltage releases | See page 3/49 |
| AS | Auxiliary switches | See page 3/44 | ST | Shunt trip | See page 3/48 | RC mech. | Remote controlled mechanisms | See page 3/50 |
| FC | Fault signal contacts | See page 3/46 | | | | | | |



System overview, page 3/5

© Siemens 2020

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

## Accessories

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

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

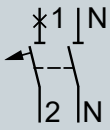
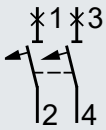
System overview, page 3/5

© Siemens 2020

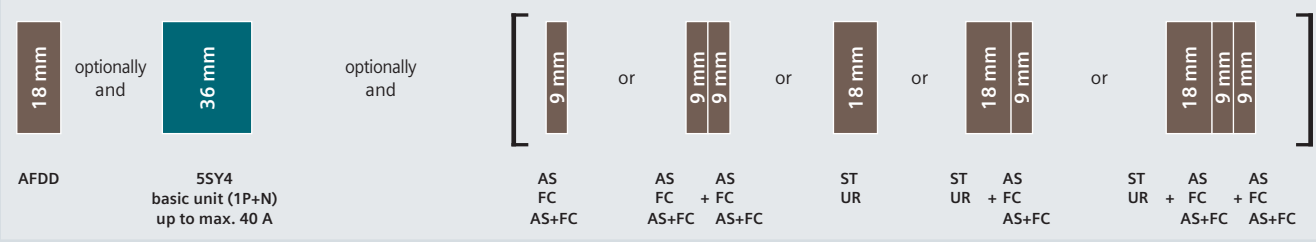


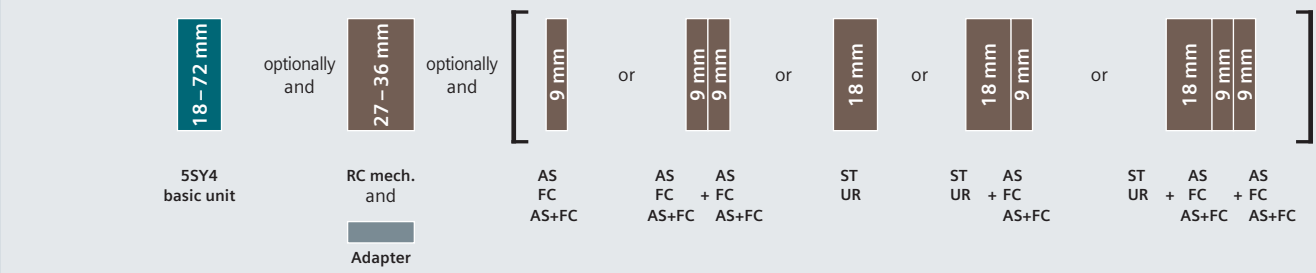
# 5SY4 miniature circuit breakers

## 10 kA

| | 1P<br>230/400 V AC | | | | 1P+N<br>230 V AC | | | | 2P<br>400 V AC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mounting width | 1 MW | | | | 2 MW | | | | 2 MW | | | |
| | | | | |  | | | |  | | | |
| Rated current | Characteristic | | | | Characteristic | | | | Characteristic | | | |
| $I_n$ | 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 new | 5SY4101-7 | 5SY4101-8 | 5SY4501-5 | – | 5SY4501-7 | 5SY4501-8 | 5SY4201-5 | 5SY4201-6 new | 5SY4201-7 | 5SY4201-8 |
| 1.6 A | 5SY4115-5 | 5SY4115-6 new | 5SY4115-7 | 5SY4115-8 | 5SY4515-5 | 5SY4515-6 new | 5SY4515-7 | 5SY4515-8 | 5SY4215-5 | 5SY4215-6 new | 5SY4215-7 | 5SY4215-8 |
| 2 A | 5SY4102-5 | 5SY4102-6 | 5SY4102-7 | 5SY4102-8 | 5SY4502-5 | – | 5SY4502-7 | 5SY4502-8 | 5SY4202-5 | 5SY4202-6 new | 5SY4202-7 | 5SY4202-8 |
| 3 A | 5SY4103-5 | 5SY4103-6 new | 5SY4103-7 | 5SY4103-8 | 5SY4503-5 | – | 5SY4503-7 | 5SY4503-8 | 5SY4203-5 | 5SY4203-6 new | 5SY4203-7 | 5SY4203-8 |
| 4 A | 5SY4104-5 | 5SY4104-6 | 5SY4104-7 | 5SY4104-8 | 5SY4504-5 | 5SY4504-6 new | 5SY4504-7 | 5SY4504-8 | 5SY4204-5 | 5SY4204-6 new | 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 new | 5SY4108-7 | 5SY4108-8 | 5SY4508-5 | – | 5SY4508-7 | 5SY4508-8 | 5SY4208-5 | 5SY4208-6 new | 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

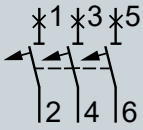
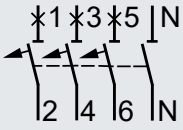
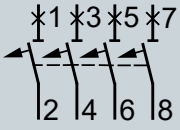





System overview, page 3/5

© Siemens 2020

| 3P<br>400 V AC | | | | 3P+N<br>400 V AC | | | | 4P<br>400 V AC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 3 MW | | | | 4 MW | | | | 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 new | 5SY4301-7 | 5SY4301-8 | 5SY4601-5 | – | 5SY4601-7 | 5SY4601-8 | 5SY4401-5 | – | 5SY4401-7 | 5SY4401-8 |
| 5SY4315-5 | 5SY4315-6 new | 5SY4315-7 | 5SY4315-8 | 5SY4615-5 | – | 5SY4615-7 | 5SY4615-8 | 5SY4415-5 | – | 5SY4415-7 | 5SY4415-8 |
| 5SY4302-5 | 5SY4302-6 new | 5SY4302-7 | 5SY4302-8 | 5SY4602-5 | – | 5SY4602-7 | 5SY4602-8 | 5SY4402-5 | – | 5SY4402-7 | 5SY4402-8 |
| 5SY4303-5 | 5SY4303-6 new | 5SY4303-7 | 5SY4303-8 | 5SY4603-5 | – | 5SY4603-7 | 5SY4603-8 | 5SY4403-5 | – | 5SY4403-7 | 5SY4403-8 |
| 5SY4304-5 | 5SY4304-6 new | 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 new | 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. |
|---|---|---|
| 1 NO + 1 NC | Standard | 5ST3010 |
| | For low power | 5ST3013 |
| | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO | Standard | 5ST3011 |
| | For low power | 5ST3014 |
| 2 NC | Standard | 5ST3012 |
| | For low power | 5ST3015 |
| 1 CO | Standard | 5ST3016 |
| **Fault signal contacts (FC)** | | **Article No.** |
| 1 NO + 1 NC | | 5ST3020 |
| 2 NO | | 5ST3021 |
| 2 NC | | 5ST3022 |
| **Auxiliary switches and fault signal contacts (AS+FC)** | | **Article No.** |
| 1 CO (AS) + 1 CO (FC) | | 5ST3062 |
| **Shunt trip (ST)** | | **Article No.** |
| 110 ... 415 V AC, 110 ... 220 DC | | 5ST3030 |
| 24 ... 48 V AC/DC | | 5ST3031 |
| 12 V DC new | | 5ST3031-0XX01 |

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

System overview, page 3/5

© Siemens 2020

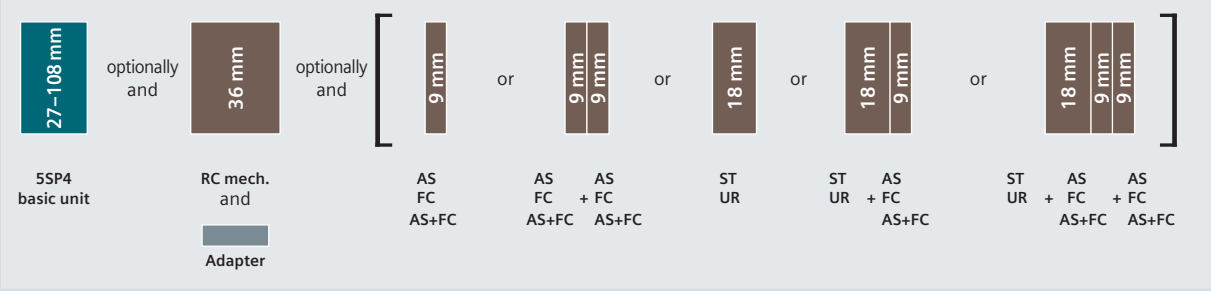


# 5SP4 miniature circuit breakers

## 10 kA

| | 1P<br>230/400 V AC | | | 2P<br>400 V AC | | |
|---|---|---|---|---|---|---|
| Mounting width | 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

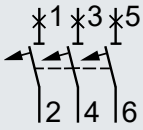
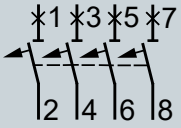



| | | |
|---|---|---|
| AS | Auxiliary switches | See page 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 |
| ST | Shunt trip | See page 3/48 |
| UR | Undervoltage releases | See page 3/49 |
| RC mech. | Remote controlled mechanisms | See page 3/50 |



System overview, page 3/5

© Siemens 2020

| 3P<br>400 V AC | | | 4P<br>400 V AC | | |
|---|---|---|---|---|---|
| 4.5 MW | | | 6 MW | | |
|  | | |  | | |
| Characteristic | | | Characteristic | | |
| B | C | D | B | C | D |
| 5SP4380-6 | 5SP4380-7 | 5SP4380-8 | 5SP4480-6 | 5SP4480-7 | 5SP4480-8 |
| 5SP4391-6 | 5SP4391-7 | 5SP4391-8 | 5SP4491-6 | 5SP4491-7 | 5SP4491-8 |
| 5SP4392-6 | 5SP4392-7 | – | 5SP4492-6 | 5SP4492-7 | – |

## Accessories

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

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

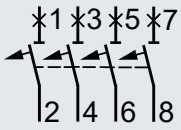
System overview, page 3/5

© Siemens 2020

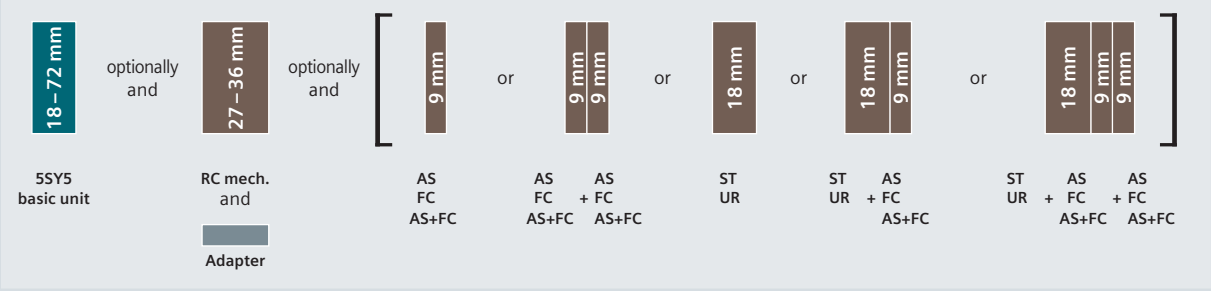


# 5SY5 miniature circuit breakers

## 10 kA

| | 1P<br>230/400 V AC, 220 V DC | | 2P<br>400 V AC, 440 V DC | | 4P<br>400 V AC, 880 V DC | |
|---|---|---|---|---|---|---|
| Mounting width | 1 MW | | 2 MW | | 4 MW | |
| | | | | |  | |
| Rated current $I_n$ | Characteristic | | Characteristic | | Characteristic | |
| | B | C | B | C | B | C |
| 0.3 A | – | 5SY5114-7 | – | 5SY5214-7 | – | 5SY5414-7 |
| 0.5 A | – | 5SY5105-7 | – | 5SY5205-7 | – | 5SY5405-7 |
| 1 A | – | 5SY5101-7 | – | 5SY5201-7 | – | 5SY5401-7 |
| 1.6 A | – | 5SY5115-7 | – | 5SY5215-7 | – | 5SY5415-7 |
| 2 A | 5SY5102-6 | 5SY5102-7 | 5SY5202-6 new | 5SY5202-7 | – | 5SY5402-7 |
| 3 A | – | 5SY5103-7 | – | 5SY5203-7 | – | 5SY5403-7 |
| 4 A | 5SY5104-6 | 5SY5104-7 | 5SY5204-6 new | 5SY5204-7 | – | 5SY5404-7 |
| 6 A | 5SY5106-6 | 5SY5106-7 | 5SY5206-6 | 5SY5206-7 | 5SY5406-6 | 5SY5406-7 |
| 8 A | 5SY5108-6 new | 5SY5108-7 | 5SY5208-6 new | 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 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 |
| ST | Shunt trip | See page 3/48 |
| UR | Undervoltage releases | See page 3/49 |
| RC mech. | Remote controlled mechanisms | See page 3/50 |



System overview, page 3/5

© Siemens 2020

## Accessories

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

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

System overview, page 3/5

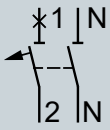
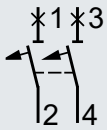
© Siemens 2020



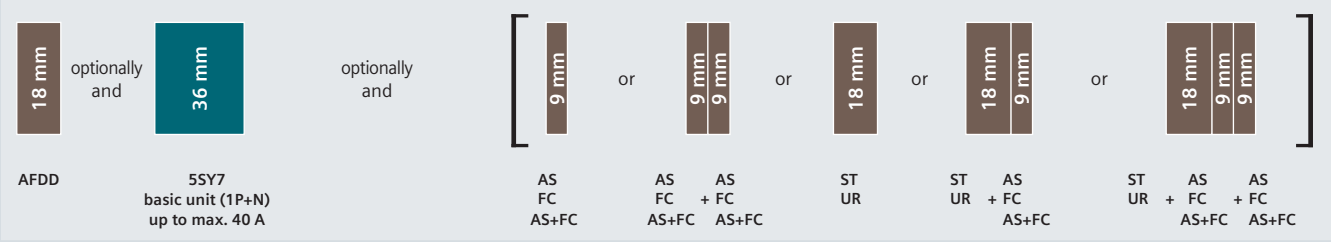
# 5SY7 miniature circuit breakers

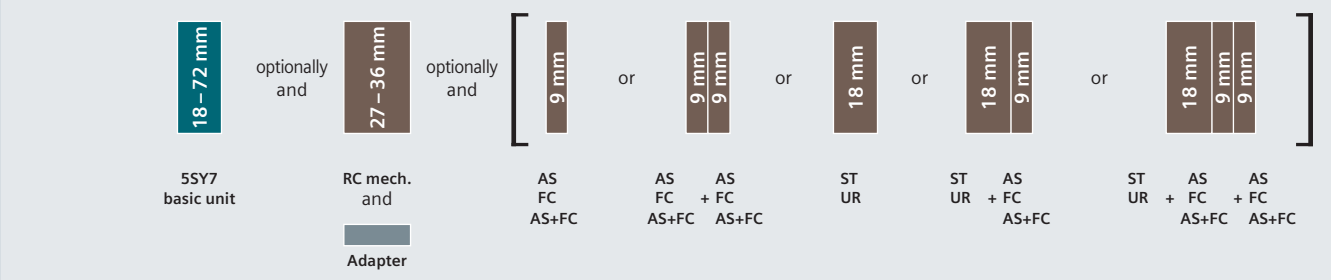
## 15 kA



| | | 1P<br>230/400 V AC | | | 1P+N<br>230 V AC | | | 2P<br>400 V AC | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Mounting width | 1 MW | | | 2 MW | | | 2 MW | | |
| | | | | |  | | |  | | |
| Rated current $I_n$ | Main MCB, line side of meter | Characteristic B | C | D | Characteristic B | C | D | Characteristic 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



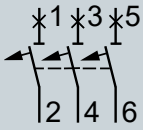
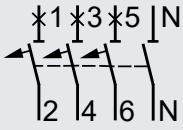




AFDD Arc fault detection devices See page 3/51
AS Auxiliary switches See page 3/44
FC Fault signal contacts See page 3/46
AS+FC Auxiliary switches and fault signal contacts See page 3/47
ST Shunt trips See page 3/48
UR Undervoltage releases See page 3/49
RC mech. Remote controlled mechanisms See page 3/50



System overview, page 3/5

© Siemens 2020

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

## Accessories

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

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

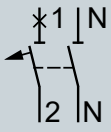
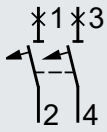
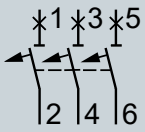
System overview, page 3/5

© Siemens 2020

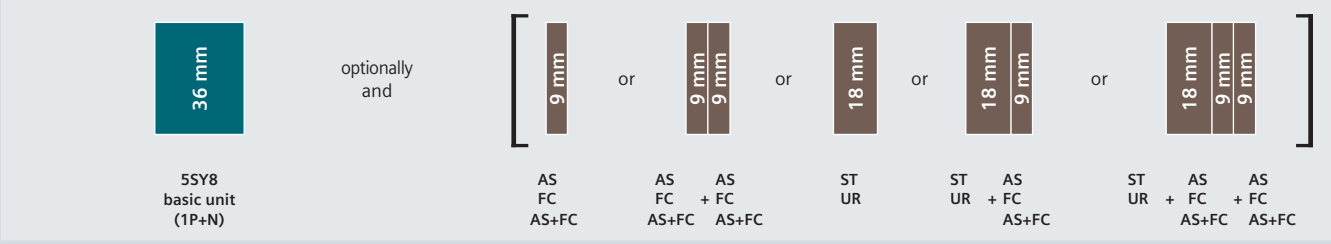


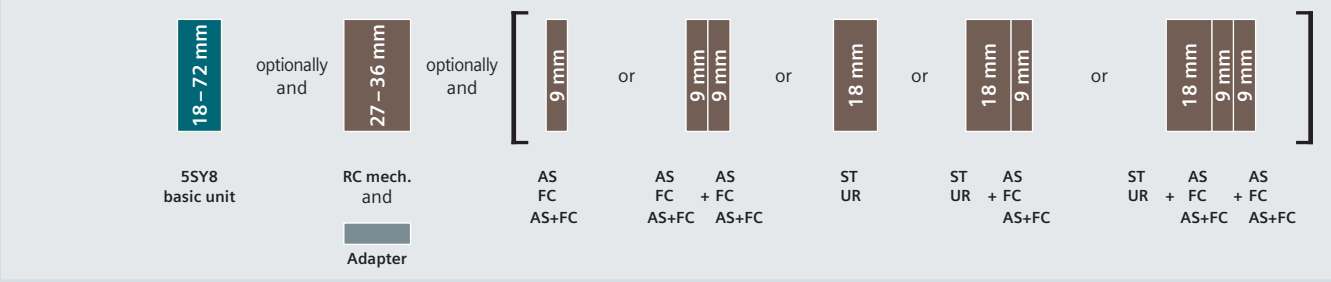
# 5SY8 miniature circuit breakers

## 25 kA

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

## Mounting concept



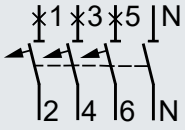




AFDD Arc fault detection devices See page 3/51
AS Auxiliary switches See page 3/44
FC Fault signal contacts See page 3/46
AS+FC Auxiliary switches and fault signal contacts See page 3/47
ST Shunt trips See page 3/48
UR Undervoltage releases See page 3/49
RC mech. Remote controlled mechanisms See page 3/50



System overview, page 3/5

© Siemens 2020

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

## Accessories

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

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

System overview, page 3/5

© Siemens 2020

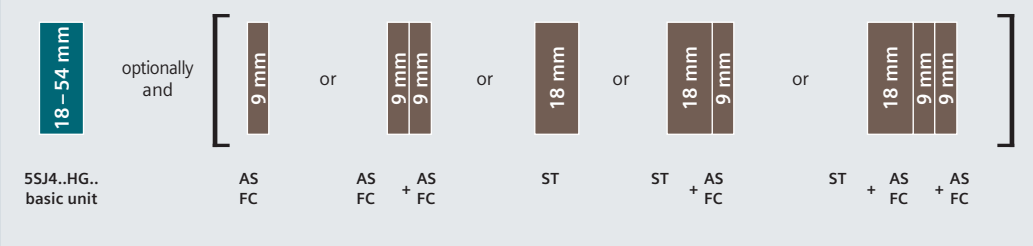


# 5SJ4..HG.. miniature circuit breakers

## According to UL489, 14/10 kA

| | 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 |
| Mounting width | 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

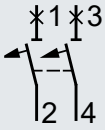
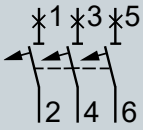



| | | |
|---|---|---|
| AS | Auxiliary switches | See page 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| ST | Shunt trip | See page 3/48 |



System overview, page 3/5

© Siemens 2020

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

## Accessories

| Auxiliary switches (AS) acc. to UL 489 | Article No. |
|---|---|
| 1 NO + 1 NC | 5ST3010-0HG |
| 2 NO | 5ST3011-0HG |
| 2 NC | 5ST3012-0HG |
| **Fault signal contacts (FC) acc. to UL 489** | **Article No.** |
| 1 NO + 1 NC | 5ST3020-0HG |
| 2 NO | 5ST3021-0HG |
| 2 NC | 5ST3022-0HG |
| **Shunt trip (ST) acc. to UL 489** | **Article No.** |
| 110 ... 415 V AC, 110 ... 220 V DC | 5ST3030-0HG |
| 24 ... 48 V AC/DC | 5ST3031-0HG |

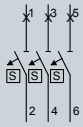
System overview, page 3/5

© Siemens 2020

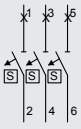


# 5SP3 selective main miniature circuit breakers (SHU)

## 25 kA, mounting on a 40 mm busbar

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

## 25 kA, mounting on a 40 mm busbar

| | 3× 1P<br>230/400 V AC |
|---|---|
| Mounting width | 4.5 MW |
| |  |
| Rated current $I_n$ | Characteristic<br>E |
| 80 A | 5SP3780-1 |
| 100 A | 5SP3791-1 |

## Specific accessories

### Busbar adapters

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

| Busbar spacing | Article No. |
|---|---|
| 40 mm | 5ST1328 |

### Breaker blocking covers

| Purpose | Article No. |
|---|---|
| To prevent manual switching OFF | 5ST1318 |

### Operating protective covers (spare part)

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

| Version | Article No. |
|---|---|
| Transparent | 5ST1323 |

### Terminal covers

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

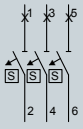
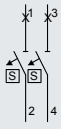
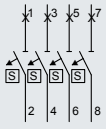
| | Article No. |
|---|---|
| | 5ST1316 |



System overview, page 3/5

© Siemens 2020

## 25 kA, mounting on a mounting rail

| | 1P<br>230/400 V AC | 3× 1P<br>230/400 V AC | 2P<br>230/400 V AC | 3P<br>230/400 V AC | 4P<br>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 |

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

| | 1P<br>230/400 V AC |
|---|---|
| **Mounting width** | 1.5 MW |
| | |
| **Rated current $I_n$** | **Characteristic E** |
| 80 A | 5SP3780 |
| 100 A | 5SP3791 |

### Specific accessories

**Mounting plates**

- For mounting on standard mounting rails according to EN 60715
- For 1 or 2 standard mounting rails, universal application, tier spacing 125 mm

| | Article No. |
|---|---|
| | 5ST1322 |

**Busbar adapters**

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

| Busbar spacing | Article No. |
|---|---|
| 40 mm | 5ST1328 |

**Breaker blocking covers**

| Purpose | Article No. |
|---|---|
| To prevent manual switching OFF | 5ST1318 |

**Operating protective covers (spare part)**

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

| Version | Article No. |
|---|---|
| Transparent | 5ST1323 |

**Terminal covers**

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

| | Article No. |
|---|---|
| | 5ST1316 |

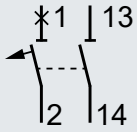
System overview, page 3/5

© Siemens 2020



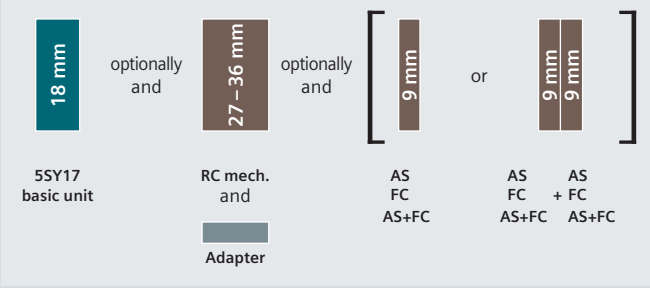
# 5SY17 device protection switches

## Electromechanical

| | 1P+AS | |
|---|---|---|
| | 230 V AC/60 V DC | 230 V AC/60 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 |

3

## Mounting concept




| | | |
|---|---|---|
| AS | Auxiliary switches | See page 3/44 |
| FC | Fault signal contacts | See page 3/46 |
| AS+FC | Auxiliary switches and fault signal contacts | See page 3/47 |
| RC mech. | Remote controlled mechanisms | See page 3/50 |

## Accessories

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

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



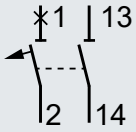
System overview, page 3/5

© Siemens 2020



# 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 |



## Specific accessories

**Connecting combs**

| Variant | Number of poles | Max. load current $I_{max}$ | Article No. |
|---|---|---|---|
| For parallel infeed | 2-pole | 24 A | 8WH9020-6BC10 |
| | | 32 A | 8WH9020-6CC10 |
| | 5-pole | 24 A | 8WH9020-6BF10 |
| | | 32 A | 8WH9020-6CF10 |
| For remote signal – group signal | 2-pole | 32 A | 8WH9020-6CC10 |

**Reducing combs for 10 mm² terminal blocks**

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

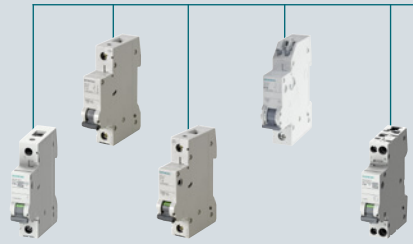
**Siehe allgemeines Zubehör page 14/57 onwards**

© Siemens 2020



# Overview of the modular system

## Miniature circuit breakers



| | | | | 5SL3 | 5SL6 | 5SL4 | 5SJ6...-.KS | 5SL30 |
|---|---|---|---|---|---|---|---|---|
| **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) | Standard | 5ST3062 | ■ | ■ | ■ | – | ■ |
| **Shunt trip (ST)** | | | **Article No.** | | | | | |
| | 110 ... 415 V AC, 110 ... 220 V DC | | 5ST3030 | – | – | ■ | – | – |
| | 24 ... 48 V AC/DC | | 5ST3031 | – | – | ■ | – | – |
| | 12 V DC new | | 5ST3031-0XX01 | – | – | ■ | – | – |
| **Undervoltage releases (UR)** | | | **Article No.** | | | | | |
| | With integrated auxiliary switch | 230 V AC | 5ST3040 | – | – | ■ | – | – |
| | | 110 V DC | 5ST3041 | – | – | ■ | – | – |
| | | 24 V DC | 5ST3042 | – | – | ■ | – | – |
| | Without integrated auxiliary switch | 230 V AC | 5ST3043 | – | – | ■ | – | – |
| | | 110 V DC | 5ST3044 | – | – | ■ | – | – |
| | | 24 V DC | 5ST3045 | – | – | ■ | – | – |
| **Remote controlled mechanisms (RC mech.)** | | | **Article No.** | | | | | |
| | Basic | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3053 | ■ | ■ | □ | – | – |
| | | 177 ... 270 V AC | 5ST3054 | ■ | ■ | □ | – | – |
| | Power | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055 | ■ | ■ | □ | – | – |
| | | 177 ... 270 V AC | 5ST3056 | ■ | ■ | □ | – | – |
| | Power with ARD | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057 | ■ | ■ | □ | – | – |
| | | 177 ... 270 V AC | 5ST3058 | ■ | ■ | □ | – | – |
| | Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070 | ■ | ■ | □ | – | – |
| **5SM6 arc fault detection devices** | | | **Article No.** | | | | | |
| | Rated current up to 16 A | Standard | 5SM6021-2 | – | – | □ | – | – |
| | | For compact devices 1P+N in 1 MW | 5SM6011-2 | – | – | – | – | – |
| | Rated current up to 40 A | Standard | 5SM6024-2 | – | – | □ | – | – |
| | | For compact devices 1P+N in 1 MW | 5SM6014-2 | – | – | – | – | – |
| **Standard busbars** | | | **Article No.** | | | | | |
| | Cannot be cut | | 5ST36.. | ■ | ■ | ■ | ■ | ■ |
| | Can be cut | | 5ST37.. | ■ | ■ | ■ | ■ | ■ |
| **Compact busbars** | | | **Article No.** | | | | | |
| | Cannot be cut | | 5ST36.. | □ | □ | □ | – | ■ |
| | Can be cut | | 5ST37.. | □ | □ | □ | – | ■ |
| | | | | from page 3/12 | | | from page 3/18 | |

■ Suitable for all versions □ Suitable for some versions



System overview, page 3/5

© Siemens 2020





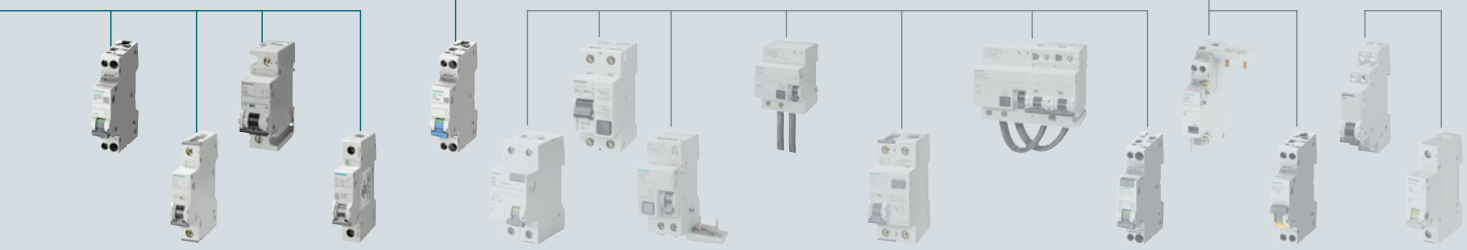
Device protection switches

Arc fault detection devices

Miniature circuit breakers

Residual current protective devices

Switching devices



| 5SL60 | 5SY | 5SP4 | 5SJ4..HG.. | 5SY17 | 5SV | 5SM3 | 5SM2 | 5SM2 (100 A) | 5SU1 | 5SU1 (125 A) | 5SV1 | 5SM6 | 5SV6 | 5TE8 | 5TL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | |
| ■ | ■ | ■ | ...-0HG | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | – | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | – | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | ...-0HG | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | – | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | ...-0HG | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | – | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| ■ | ■ | ■ | – | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | ■ | ■ |
| | | | | | | | | | | | | | | | |
| ■ | ■ | ■ | ...-0HG | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | – | – |
| ■ | ■ | ■ | ...-0HG | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | – | – |
| ■ | ■ | ■ | ...-0HG | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | – | – |
| | | | | | | | | | | | | | | | |
| ■ | ■ | ■ | – | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | – | – |
| | | | | | | | | | | | | | | | |
| – | ■ | ■ | ...-0HG | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| – | ■ | ■ | ...-0HG | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| – | ■ | ■ | – | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| | | | | | | | | | | | | | | | |
| – | ■ | ■ | – | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| – | ■ | ■ | – | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| – | ■ | ■ | – | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| – | ■ | ■ | – | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| – | ■ | ■ | – | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| – | ■ | ■ | – | – | ■ | – | ■ | ■ | ■ | ■ | – | □ | – | – | – |
| | | | | | | | | | | | | | | | |
| □ | □ | ■ | – | ■ | – | – | – | – | ■ | – | ■ | – | – | – | ■ |
| □ | □ | ■ | – | ■ | – | – | – | – | ■ | – | ■ | – | – | – | ■ |
| □ | □ | ■ | – | ■ | ■ | – | ■ | – | ■ | – | ■ | – | – | – | ■ |
| □ | □ | ■ | – | ■ | ■ | – | ■ | – | ■ | – | ■ | – | – | – | ■ |
| □ | □ | ■ | – | ■ | ■ | – | ■ | – | ■ | – | ■ | – | – | – | ■ |
| □ | □ | ■ | – | ■ | ■ | – | ■ | – | ■ | – | ■ | – | – | – | ■ |
| □ | □ | ■ | – | ■ | ■ | – | ■ | – | ■ | – | ■ | – | – | – | ■ |
| | | | | | | | | | | | | | | | |
| – | □ | – | – | – | – | – | – | – | ■ | – | ■ | – | – | – | – |
| □ | – | – | – | – | – | – | – | – | – | – | ■ | – | – | – | – |
| – | □ | – | – | – | – | – | – | – | ■ | – | ■ | – | – | – | – |
| □ | – | – | – | – | – | – | – | – | – | – | ■ | – | – | – | – |
| | | | | | | | | | | | | | | | |
| ■ | ■ | ■ | ■ | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ |
| ■ | ■ | ■ | ■ | ■ | ■ | – | ■ | ■ | ■ | ■ | ■ | □ | ■ | □ | ■ |
| | | | | | | | | | | | | | | | |
| ■ | – | – | – | ■ | ■ | – | – | – | – | – | ■ | ■ | ■ | – | – |
| ■ | – | – | – | – | ■ | – | – | – | – | – | ■ | ■ | ■ | – | – |
| from page 3/18 | | | | from page 3/40 | from page 4/14 | | | | | | | from page 4/50 | | from page 5/6 | |

System overview, page 3/5

© Siemens 2020



# 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] Handle coupler 5ST3805-1 required



System overview, page 3/5

© Siemens 2020





## Further technical specifications

| | | 5ST3010, 5ST3010-2<br>5ST3011, 5ST3011-2<br>5ST3012, 5ST3012-2 | 5ST3013, 5ST3014<br>5ST3015, 5ST3016<br>5ST3013-0XX01 | 5ST3013-2<br>5ST3014-2<br>5ST3015-2 | 5ST3010-0HG<br>5ST3011-0HG<br>5ST3012-0HG |
|---|---|---|---|---|---|
| **Standards** | | | | | |
| Standards | IEC/EN | IEC/EN 62019, IEC/EN 60947-5-1 | | | – |
| | UL, CSA | UL 1077, CSA C22.2 No. 235 | | | UL 489,<br>UL-File E321559,<br>CSA 22.2 No. 5-02 |
| **Contacts** | | | | | |
| Minimum contact load | | 50 mA, 24 V | 1 mA, 5 V DC | 5 mA, 5 V DC | 50 mA, 24 V |
| Maximum contact load | | – | 100 mA, 30 V DC | 30 mA, 30 V DC | – |
| Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A | – | | 6 A |
| | 400 V AC, AC-14 | 2 A | – | | 2 A |
| | 24 V DC, DC-13 | 6 A | – | | 6 A (3 A) |
| | 60 V DC, DC-13 | 3 A | – | | 3 A (1.5 A) |
| | 110 V DC, DC-13 | 1 A | – | | 1 A (0.75 A) |
| | 220 V DC, DC-13 | 1 A | – | | 1 A (0.5 A) |
| Contact load acc. to UL | 120 V AC | – | | | 6 A |
| | 240 V AC | – | | | 4 A |
| | 277 V AC | – | | | 3 A |
| | 480 V AC | – | | | 1.5 A |
| | 60 V DC | – | | | 3 A |
| | 125 V DC | – | | | 1 A |
| Service life, on average, with rated load | Actuations | 20000 | | | 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 | 50 $m/s^2$ | | | |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 $m/s^2$ | | | |

System overview, page 3/5

© Siemens 2020



# Electrical accessories

## Fault signal contacts (FC)

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



| For combining with basic units | | | | | Contacts | Mounting width (1 MW = 18 mm) | Article No. |
|---|---|---|---|---|---|---|---|
| Miniature circuit breakers | Device protection switches | RCCBs | 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] Handle coupler 5ST3805-1 required

## Further technical specifications

| | | 5ST3020, 5ST3020-2<br>5ST3021, 5ST3021-2<br>5ST3022, 5ST3022-2 | 5ST3020-0HG<br>5ST3021-0HG<br>5ST3022-0HG |
|---|---|---|---|
| **Standards** | | | |
| Standards | IEC/EN | IEC/EN 62019, IEC/EN 60947-5-1 | |
| | UL, CSA | UL 1077, CSA C22.2 No. 235 | UL 489, UL-File E321559, CSA 22.2 No. 5-02 |
| **Contacts** | | | |
| Minimum contact load | | 50 mA, 24 V | |
| Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A | |
| | 400 V AC, AC-14 | 2 A | |
| | 24 V DC, DC-13 | 6 A | 6 A (3 A) |
| | 60 V DC, DC-13 | 3 A | 3 A (1.5 A) |
| | 110 V DC, DC-13 | 1 A | 1 A (0.75 A) |
| | 220 V DC, DC-13 | 1 A | 1 A (0.5 A) |
| Contact load acc. to UL | 120 V AC | – | 6 A |
| | 240 V AC | – | 4 A |
| | 277 V AC | – | 3 A |
| | 480 V AC | – | 1.5 A |
| | 60 V DC | – | 3 A |
| | 125 V DC | – | 1 A |
| Service life, on average, with rated load | Actuations | 20000 | 12000 |
| **Safety** | | | |
| Short-circuit protection | | Miniature circuit breaker or gG 6 A fuse | |
| **Connections** | | | |
| Conductor cross-sections | | 0.5 ... 2.5 $mm^2$ (AWG 22 ... 14) | |
| Terminals | Max. tightening torque | 0.5 Nm (4.5 lb-in) | |
| **Ambient conditions** | | | |
| Permissible ambient temperature | | –25 ... +55 °C | |
| Permissible storage temperature | | –40 ... +75 °C | |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles | |
| Mounting position | | Any | |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 $m/s^2$ | |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 $m/s^2$ | |



System overview, page 3/5

© Siemens 2020

# Auxiliary switches and fault signal contacts (AS+FC)

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

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

[1] Handle coupler 5ST3805-1 required

## Further technical specifications

| | | 5ST3062 |
|---|---|---|
| **Standards** | | |
| Standards | IEC/EN | IEC/EN 62019, IEC/EN 60947-5-1 |
| | UL, CSA | UL 1077, CSA C22.2 No. 235 |
| **Contacts** | | |
| Minimum contact load | | 50 mA, 24 V |
| Maximum contact load | | – |
| Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-13 | 6 A |
| | 400 V AC, AC-14 | 2 A |
| Contact load acc. to IEC/EN 62019 (acc. to IEC/EN 60947-5-1) | 24 V DC, DC-13 | 3 A (3 A) |
| | 60 V DC, DC-13 | 3 A (1 A) |
| | 110 V DC, DC-13 | 0.5 A (0.5 A) |
| | 220 V DC, DC-13 | 0.5 A (0.3 A) |
| Service life, on average, with rated load | Actuations | 20000 |
| **Safety** | | |
| Short-circuit protection | | Miniature circuit breaker or gG 6 A fuse |
| **Connections** | | |
| Conductor cross-sections | | 0.5 ... 2.5 $mm^2$ (AWG 22 ... 14) |
| Terminals | Max. tightening torque | 0.5 Nm (4.5 lb-in) |
| **Ambient conditions** | | |
| Permissible ambient temperature | | –25 ... +55 °C |
| Permissible storage temperature | | –40 ... +75 °C |
| Resistance to climate | Acc. to IEC 60068-2-30 | 28 cycles |
| Mounting position | | Any |
| Shock at 11 ms half-sine | Acc. to IEC 60068-2-27 | 50 $m/s^2$ |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 $m/s^2$ |

System overview, page 3/5

© Siemens 2020



# Electrical accessories

## Shunt trip (ST)

- For remote-controlled tripping of the mounted device

| For combining with basic units<br>Miniature circuit breakers | RCCBs | RCBOs | Rated voltage $U_n$ | Mounting width (1 MW = 18 mm) | Article No. |
|---|---|---|---|---|---|
| **Shunt trip (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 trip (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] Handle coupler 5ST3805-1 required

| Further technical specifications | | 5ST3030 | 5ST3031 | 5ST3031-0XX01 | 5ST3030-0HG | 5ST3031-0HG |
|---|---|---|---|---|---|---|
| **Standards** | | | | | | |
| Standards | IEC/EN | EN 60947-1 | | | IEC/EN 60947-1 | |
| | UL, CSA | – | | | UL 489, UL-File E321559, CSA 22.2 No. 5-02 | |
| **Supply** | | | | | | |
| Primary operating range | | 0.7 ... 1.1 × $U_n$ | | | | |
| 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 | 50 $m/s^2$ | | | | |
| Resistance to vibrations at 10 ... 150 Hz | Acc. to IEC 60068-2-6 | 50 $m/s^2$ | | | | |



System overview, page 3/5

© Siemens 2020

# Undervoltage releases (UR)

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

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

[1] Handle coupler 5ST3805-1 required

## Further technical specifications

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

System overview, page 3/5

© Siemens 2020



# 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 voltage $U_n$ | Mounting width (1 MW = 18 mm) | Article No. |
|---|---|---|---|---|---|---|
| Basic | – | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 1.5 MW | 5ST3053 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3054 |
| Power | LED | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3055 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3056 |
| Power with ARD | LED | –25 °C ... +45 °C | – | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3057 |
| | | | | 177 ... 270 V AC | 2 MW | 5ST3058 |
| Power with extended function | LED | –40 °C ... +70 °C | Acc. to DIN EN 61373 / DIN EN 50155 "1B" | 12 ... 30 V AC, 12 ... 48 V DC | 2 MW | 5ST3070 |

## Further technical specifications

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

## Suitable adapters for combination with miniature circuit breakers

| Basic units | Mounting width 1–2 MW | 3–4 MW | 3–6 MW | Adapters |
|---|---|---|---|---|
| 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 |



System overview, page 3/5

© Siemens 2020

# 5SM6 arc fault detection devices (AFDD)

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

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

[1] Not for 5SY5, 5SY8, 5SL60 2-pole

## Further technical specifications

| | | 5SM6 |
|---|---|---|
| **Standards** | | |
| Standards | | IEC/EN 62606 |
| **Supply** | | |
| Rated voltage $U_n$ | | 230 V |
| Rated current $I_n$ | | Up to 16/40 A |
| Rated frequency | | 50 Hz |
| Power loss | | 0.6 W |
| **Contacts** | | |
| Number of poles | | 2-pole |
| Service life | Average number of switching cycles | >10000 |
| **Safety** | | |
| Touch protection | Acc. to EN 50274 (VDE 0660-514) | Finger and back-of-hand safe |
| Degree of protection | Acc. to EN 60529 (VDE 0470-1) | IP20, with connected conductors |
| Overvoltage category | | III |
| Tripping in the event of overvoltage | | >275 V |
| **Connections** | | |
| Terminal/conductor cross-sections | Solid and stranded | 0.75 ... 16 $mm^2$ |
| | Finely stranded with end sleeve | 0.75 ... 10 $mm^2$ |
| Terminal tightening torque | | 2.0 ... 2.5 Nm |
| Mains connection | | Bottom |
| **Ambient conditions** | | |
| Permissible ambient temperature | | –25 ... +40 °C |
| Permissible storage temperature | | –40 ... +75 °C |
| Resistance to climate at 95% relative air humidity | Acc. to IEC 60068-2-30 | 28 cycles, 55 °C |
| Pollution degree | | 2 |
| CFC and silicone-free | | Yes |
| Mounting position | | Any |

**Suitable busbars, page 3/54 onwards**
**Suitable busbars and end caps, page 3/66 onwards**

© Siemens 2020



# 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

| Versions | 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

| 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 |



System overview, page 3/5

© Siemens 2020





## Device labels



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

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

## Terminal covers, gray

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

| For widths up to | Article No. |
|---|---|
| 2.5 MW | 5SW3004 |
| 4.5 MW | 5SW3005 |

## Wall enclosures, gray

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

| For widths up to | Article No. |
|---|---|
| 2.5 MW | 5SW3006 |
| 4.5 MW | 5SW3007 |

## Molded-plastic enclosures, gray

- For surface mounting, degree of protection IP54
- Sealable
- Can be used with 35 mm mounting rail
- With transparent hinged lid

| For widths up to | Article No. |
|---|---|
| 4.5 MW | 5SW1200 |

## Covers

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

| Comprising | Article No. |
|---|---|
| End plate | 5ST2134 |
| Angled profile | 5ST2135 |
| Alternatively flat profile | 5ST2136 |

## Holders for front panel installation

- Universal use for devices from 1 to 6 MW

| Cutout height | Cutout width | Article No. |
|---|---|---|
| $45^{+0.5}$ mm | 23, 41, 59, 77, 95 or 113 mm | 7LF9006 |

## Intermediate frames

- For 70 mm devices in 55 mm ALPHA SIMBOX small distribution boards

| Versions | Article No. |
|---|---|
| 1-tier | 8GB4561 |
| 2-tier | 8GB4562 |
| 3-tier | 8GB4563 |
| 4-tier | 8GB4564 |

System overview, page 3/5

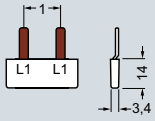
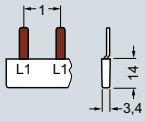
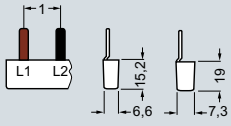
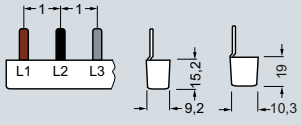
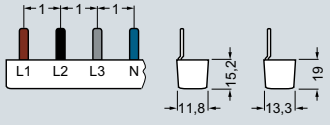
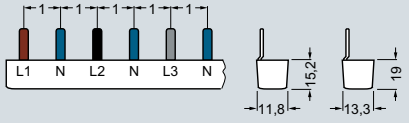
© Siemens 2020



# Standard busbars

## 5ST36, fixed length, cannot be cut

### For miniature circuit breakers (MCBs)

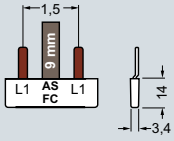
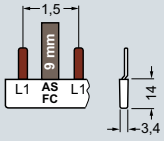
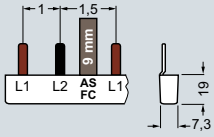
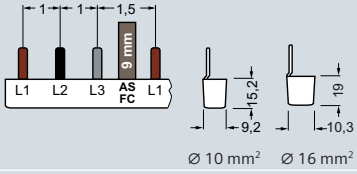
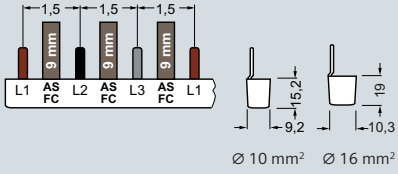
| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 10 mm² | 16 mm² |
|---|---|---|---|---|---|
| **Single-phase** | | | | Article No. | Article No. |
|   | For 2 MCBs 1P | 2 MW | 33 mm | 5ST3600 | 5ST3630 |
|   | For 6 MCBs 1P | 6 MW | 105 mm | 5ST3601 | 5ST3631 |
| | For 12 MCBs 1P | 12 MW | 212 mm | 5ST3602 | 5ST3632 |
| **Two-phase** | | | | Article No. | Article No. |
|   ∅ 10 mm² ∅ 16 mm² | For 2 MCBs 2P | 4 MW | 76 mm | 5ST3606 | 5ST3636 |
| | For 3 MCBs 2P | 6 MW | 105 mm | 5ST3607 | 5ST3637 |
| | For 6 MCBs 2P | 12 MW | 210 mm | 5ST3608 | 5ST3638 |
| **Three-phase** | | | | Article No. | Article No. |
|   ∅ 10 mm² ∅ 16 mm² | For 2 MCBs 3P | 6 MW | 102 mm | 5ST3613 | 5ST3643 |
| | For 3 MCBs 3P | 9 MW | 157.5 mm | 5ST3614 | 5ST3644 |
| | For 4 MCBs 3P | 12 MW | 210 mm | 5ST3615 | 5ST3645 |
| | Combi pack: 20× 5ST3613 + 10× 5ST3614 + 50× 5ST3615 + 50× 5ST3655 | | | 5ST3656 | – |
| | Combi pack: 20× 5ST3643 + 10× 5ST3644 + 50× 5ST3645 + 50× 5ST3655 | | | – | 5ST3657 |
| **Four-phase** | | | | Article No. | Article No. |
|   ∅ 10 mm² ∅ 16 mm² | For 2 MCBs 4P or 3P+N | 8 MW | 138 mm/ 140 mm | 5ST3621 | 5ST3651 |
| | For 3 MCBs 4P or 3P+N | 12 MW | 210 mm | 5ST3622 | 5ST3652 |
|   ∅ 10 mm² ∅ 16 mm² | For 6 MCBs 2P or 1P+N | 12 MW | 210 mm | 5ST3623 | 5ST3653 |



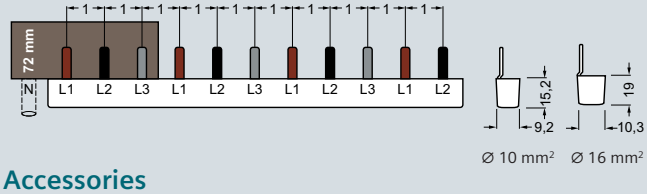
System overview, page 3/5

© Siemens 2020

## 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 mm² | 16 mm² |
|---|---|---|---|---|---|
| **Single-phase** | | | | **Article No.** | **Article No.** |
|   | 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 |
| **Two-phase** | | | | **Article No.** | **Article No.** |
|   | For 2 MCBs 2P | 4 MW | 76 mm | – | 5ST3640 |
| | For 3 MCBs 2P | 6 MW | 121 mm | – | 5ST3641 |
| | For 5 MCBs 2P | 10 MW | 210 mm | – | 5ST3642 |
| **Three-phase** | | | | **Article No.** | **Article No.** |
|   | 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 |

## For MCBs with RCCB

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 10 mm² | 16 mm² |
|---|---|---|---|---|---|
| **Three-phase** | | | | **Article No.** | **Article No.** |
| | For 8 MCBs 1P with 1 RCCB 3P+N, N right | 12 MW | 210 mm | 5ST3624 | 5ST3654 |
|   | For 8 MCBs 1P with 1 RCCB 3P+N, N left | 12 MW | 192 mm | 5ST3667 | 5ST3668 |

## Accessories

| Terminals for 5ST36 and 5ST37 | | Article No. |
|---|---|---|
| For conductors up to 25 mm² | 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 mm² | 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 mm² | Short | 5ST3768 |
| | Short, IP20 | 5ST3771-2 |
| **Touch protection** | | **Article No.** |
| For free connections, yellow (RAL 1004) 5× 1 pin | | 5ST3655 |

System overview, page 3/5

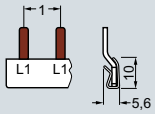
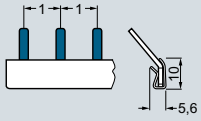
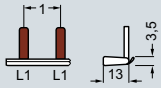
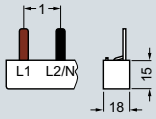
© Siemens 2020



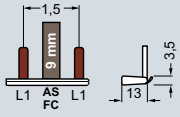
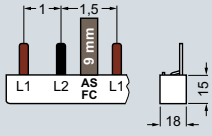
# Standard busbars

## 5ST37, can be cut

### For miniature circuit breakers (MCBs)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Color | Conductor cross-section 10 mm² | Conductor cross-section 16 mm² |
|---|---|---|---|---|---|---|---|
| **Single-phase, straight** | | | | | | **Article No.** | **Article No.** |
|   | For MCB 1P+N compact | 12 MW | 216 mm | ■ | Gray | 5ST3762 | – |
| | | | | | Blue | 5ST3687-0 | – |
| | | 56 MW | 1016 mm | – | Gray | 5ST3764 | – |
| | | | | | Blue | 5ST3787-0 | – |
| **Single-phase, angled 45°** | | | | | | **Article No.** | **Article No.** |
|   | For MCB 1P+N compact | 12 MW | 216 mm | ■ | Blue | 5ST3763 | – |
| | | 56 MW | 1016 mm | – | Blue | 5ST3765 | – |
| **Single-phase, angled 90°** | | | | | | **Article No.** | **Article No.** |
|   | For MCBs 1P | 12 MW | 214 mm | ■ | | 5ST3730 | 5ST3700 |
| | | 56 MW | 1016 mm | – | | 5ST3731 | 5ST3701 |
| **Two-phase** | | | | | | **Article No.** | **Article No.** |
|   | für 2TE Geräte (2P / 1+N) | 12 MW | 214 mm | ■ | | 5ST3734 | 5ST3704 |
| | | 56 MW | 1016 mm | – | | 5ST3735 | 5ST3705 |

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

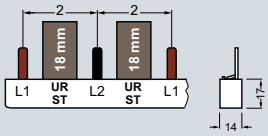
| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | | Conductor cross-section 10 mm² | Conductor cross-section 16 mm² |
|---|---|---|---|---|---|---|---|
| **Single-phase, angled 90°** | | | | | | **Article No.** | **Article No.** |
|   | For MCBs 1P | 12 MW | 214 mm | ■ | | 5ST3732 | 5ST3702 |
| | | 56 MW | 1016 mm | – | | 5ST3733 | 5ST3703 |
| **Two-phase** | | | | | | **Article No.** | **Article No.** |
|   | For MCBs 2P | 12 MW | 214 mm | ■ | | 5ST3736 | 5ST3706 |
| | | 56 MW | 1016 mm | – | | 5ST3737 | 5ST3707 |



System overview, page 3/5

© Siemens 2020

## For MCBs equipped with undervoltage release (UR) / shunt release (ST)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section 10 mm² | Conductor cross-section 16 mm² |
|---|---|---|---|---|---|---|
| **Two-phase** | | | | | **Article No.** | **Article No.** |
|   | For MCBs 1P with UR / ST | 56 MW | 1016 mm | – | 5ST3735-2 | – |

3

## Accessories

| Terminals for 5ST36 and 5ST37 | | Article No. |
|---|---|---|
| For conductors up to 25 mm² | 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 mm² | 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 mm² | Short | 5ST3768 |
| | Short, IP20 | 5ST3771-2 |
| **End caps** | | **Article No.** |
| For single-phase busbars (MCB 1P+N compact) | Gray | 5ST3766 |
| | Blue | 5ST3767 |
| | White | 5ST3748 |
| For two-phase busbars | | 5ST3750 |
| **Touch protection** | | **Article No.** |
| For free connections, yellow (RAL 1004) 5× 1 pin | | 5ST3655 |

System overview, page 3/5

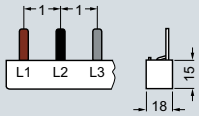
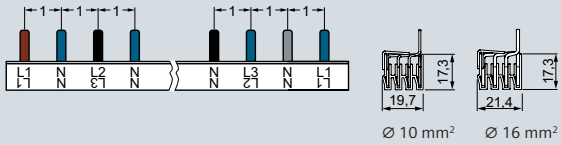
© Siemens 2020



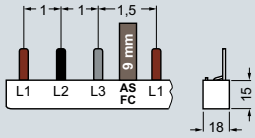
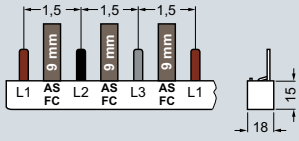
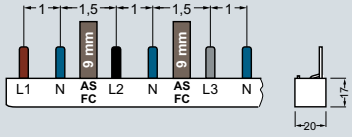
# Standard busbars

## 5ST37, can be cut

### For miniature circuit breakers (MCBs)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section 10 mm² | Conductor cross-section 16 mm² |
|---|---|---|---|---|---|---|
| **Three-phase** | | | | | Article No. | Article No. |
|  | For MCBs 3P | 12 MW | 214 mm | ■ | 5ST3738 | 5ST3708 |
| | | 56 MW | 1016 mm | – | 5ST3740 | 5ST3710 |
| **Four-phase** | | | | | Article No. | Article No. |
| | For MCBs 4P or 3P+N | 12 MW | 214 mm | ■ | 5ST3745 | 5ST3715 |
| | | 56 MW | 1016 mm | – | 5ST3746 | 5ST3716 |
|  | For RCBOs or MCBs 1P+N | 56 MW | 1000 mm | – | 5ST3770-2 | 5ST3770-3 |

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

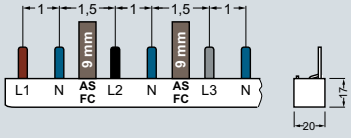
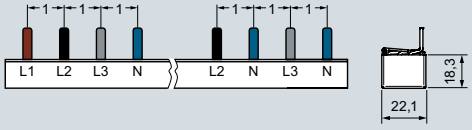
| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section 10 mm² | Conductor cross-section 16 mm² |
|---|---|---|---|---|---|---|
| **Three-phase** | | | | | Article No. | Article No. |
|  | For MCBs 3P | 12 MW | 214 mm | ■ | 5ST3741 | 5ST3711 |
| | | 56 MW | 1016 mm | – | 5ST3742 | 5ST3712 |
|  | For MCBs 1P | 12 MW | 214 mm | ■ | 5ST3743 | 5ST3713 |
| | | 56 MW | 1016 mm | – | 5ST3744 | 5ST3714 |
| **Four-phase** | | | | | Article No. | Article No. |
|  | For MCBs 1P+N | 56 MW | 1016 mm | – | 5ST3746-2 | – |



System overview, page 3/5

© Siemens 2020

## 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 mm² | Conductor cross-section 16 mm² |
|---|---|---|---|---|---|---|
| **Four-phase** | | | | | **Article No.** | **Article No.** |
|   | For RCCBs/MCBs | 56 MW | 1016 mm | – | 5ST3746-2 | – |
|   | For 6 MCBs 1P+N with 1 RCCB 3P+N, N right | 16 MW | 292 mm | ■ | 5ST3770-4 | 5ST3770-5 |

3

## Accessories

| Terminals for 5ST36 and 5ST37 | | Article No. |
|---|---|---|
| For conductors up to 25 mm² | 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 mm² | 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 three-phase busbars | 5ST3750 |
| For four-phase busbars | 5ST3718 |
| **Touch protection** | **Article No.** |
| For free connections, yellow (RAL 1004) 5× 1 pin | 5ST3655 |

System overview, page 3/5

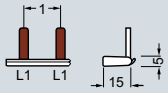
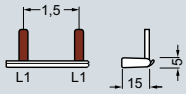
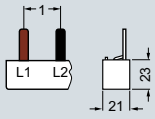
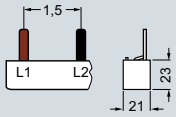
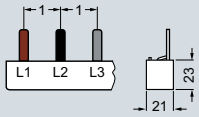
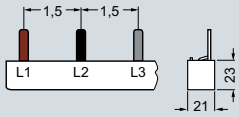
© Siemens 2020



# Standard busbars

## 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 mm² | 25 mm² |
|---|---|---|---|---|---|
| **Single-phase** | | | | **Article No.** | **Article No.** |
|  | For MCBs 1P<br>or fuse holders 10 x 38 mm/class CC | 56 MW | 1000 mm | 5ST3701-0HG | – |
|  | For MCBs 1P<br>or fuse holders 14 x 51 mm | 56 MW | 1000 mm | – | 5ST3701-2HG |
| **Two-phase** | | | | **Article No.** | **Article No.** |
|  | For MCBs 2P<br>or fuse holders 10 x 38 mm/class CC | 56 MW | 1000 mm | 5ST3705-0HG | – |
|  | For MCBs 2P<br>or fuse holders 14 x 51 mm | 56 MW | 1000 mm | – | 5ST3705-2HG |
| **Three-phase** | | | | **Article No.** | **Article No.** |
|  | For MCBs 3P<br>or fuse holders 10 x 38 mm/class CC | 56 MW | 1000 mm | 5ST3710-0HG | – |
|  | For MCBs 3P<br>or fuse holders 14 x 51 mm | 56 MW | 1000 mm | – | 5ST3710-2HG |

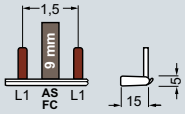
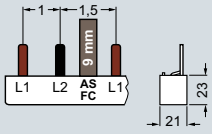
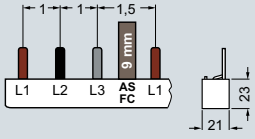
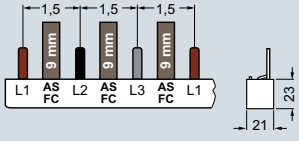


System overview, page 3/5

© Siemens 2020



## für LS mit angebautem Hilfsstrom- (AS) / Fehlersignalschalter (FC)

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 18 mm² | 25 mm² |
|---|---|---|---|---|---|
| **Single-phase** | | | | **Article No.** | **Article No.** |
|   | For MCBs 1P | 56 MW | 1000 mm | 5ST3703-0HG | – |
| **Two-phase** | | | | **Article No.** | **Article No.** |
|   | For MCBs 2P | 56 MW | 1000 mm | 5ST3707-0HG | – |
| **Three-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 508 | | Article No. |
|---|---|---|
| For infeed at the device | 35 mm² | 5ST3770-0HG |
| For infeed at the busbar | 50 mm² | 5ST3770-1HG |
| **End caps acc. to UL 508** | | **Article No.** |
| For single-phase busbars | | 5ST3748-0HG |
| For two- and three-phase busbars | | 5ST3750-0HG |

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

System overview, page 3/5

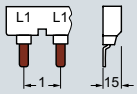
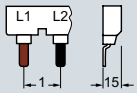
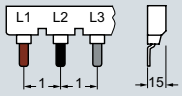
© Siemens 2020



# Standard busbars

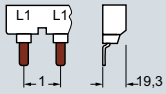
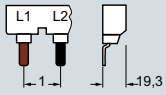
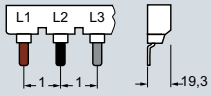
## 5ST3.. acc. to UL 489 specially for 5SJ4... -.HG..

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

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 16 mm² |
|---|---|---|---|---|
| **Single-phase** | | | | **Article No.** |
|   | For 6 MCBs 1P | 6 MW | 100 mm | 5ST3663-0HG |
| | For 12 MCBs 1P | 12 MW | 205 mm | 5ST3663-1HG |
| | For 18 MCBs 1P | 18 MW | 310 mm | 5ST3663-2HG |
| **Two-phase** | | | | **Article No.** |
|   | For 6 MCBs 1P | 6 MW | 100 mm | 5ST3664-0HG |
| | For 12 MCBs 1P | 12 MW | 205 mm | 5ST3664-1HG |
| | For 18 MCBs 1P | 18 MW | 310 mm | 5ST3664-2HG |
| **Three-phase** | | | | **Article No.** |
|   | For 2 MCBs 3P | 6 MW | 100 mm | 5ST3665-0HG |
| | For 4 MCBs 3P | 12 MW | 205 mm | 5ST3665-1HG |
| | For 6 MCBs 3P | 18 MW | 310 mm | 5ST3665-2HG |

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

### Can be cut, for MCBs

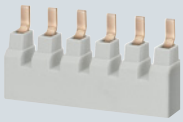
| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 18 mm² |
|---|---|---|---|---|
| **Single-phase** | | | | **Article No.** |
|   | For MCBs 1P | 56 MW | 1016 mm | 5ST3701-3HG |
| **Two-phase** | | | | **Article No.** |
|   | For MCBs 2P | 56 MW | 1016 mm | 5ST3705-3HG |
| **Three-phase** | | | | **Article No.** |
|   | For MCBs 3P | 56 MW | 1016 mm | 5ST3710-3HG |



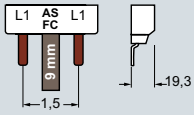
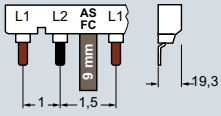
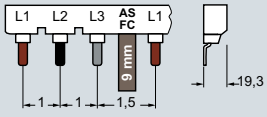
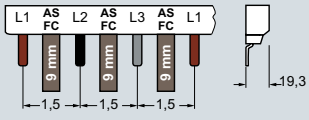
System overview, page 3/5

© Siemens 2020





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

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | Conductor cross-section 18 mm² |
|---|---|---|---|---|
| **Single-phase** | | | | **Article No.** |
|   | For MCBs 1P | 56 MW | 1016 mm | 5ST3703-3HG |
| **Two-phase** | | | | **Article No.** |
|   | For MCBs 2P | 56 MW | 1016 mm | 5ST3707-3HG |
| **Three-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 mm² | 5ST3666-0HG |
| | 18 mm² | 5ST3770-3HG |
| For infeed at the busbar | 16 mm² | 5ST3666-2HG |
| **End caps acc. to UL 489** | | **Article No.** |
| For single-, two- and three-phase busbars | | 5ST3750-3HG |
| **Touch protection acc. to UL 489** | | **Article No.** |
| For open terminals, yellow 3× 1 pin | For 5ST37..-.HG busbars that cannot be cut | 5ST3666-1HG |
| | For 5ST37..-3HG busbars that can be cut | 5ST3655-3HG |

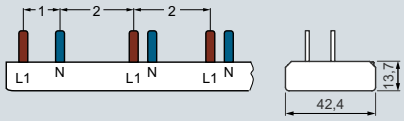
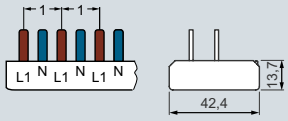
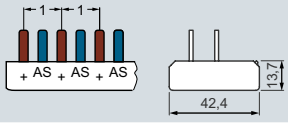
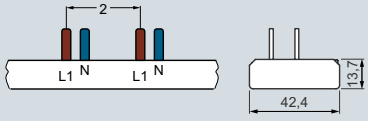
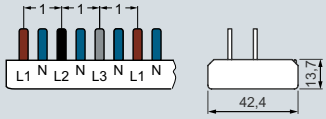
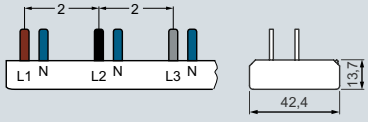
System overview, page 3/5

© Siemens 2020



# 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 mm² |
|---|---|---|---|---|---|
| **Two-phase, for infeed via RCCB** | | | | | **Article No.** |
|   | For 1× RCCB 1P+N and 5× compact devices equipped with 5SM6 arc fault detection device | 12 MW | 216 mm | ■ | 5ST3685-0 |
| **Two-phase** | | | | | **Article No.** |
|   | For compact devices | 6 MW | 113 mm | ■ | 5ST3674-6 new |
| | | 9 MW | 166 mm | ■ | 5ST3674-7 new |
| | | 12 MW | 218 mm | ■ | 5ST3674-0 |
|   | For 12x CBE (device protection switch) 5SY17 | 12 MW | 218 mm | ■ | 5ST3674-1 new |
|   | For 6× compact devices equipped with 5SM6 arc fault detection device | 11 MW | 200 mm | ■ | 5ST3676-0 |
| **Four-phase** | | | | | **Article No.** |
|   | For compact devices | 6 MW | 113 mm | ■ | 5ST3673-6 new |
| | | 9 MW | 116 mm | ■ | 5ST3673-7 new |
| | | 12 MW | 218 mm | ■ | 5ST3673-0 |
| | | 14 MW | 254 mm | ■ | 5ST3673-4 new |
|   | For 6× compact devices equipped with 5SM6 arc fault detection device | 11 MW | 200 mm | ■ | 5ST3675-0 |



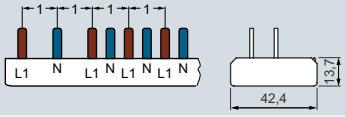
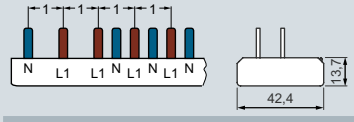
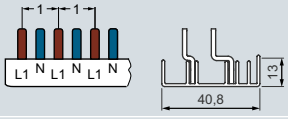
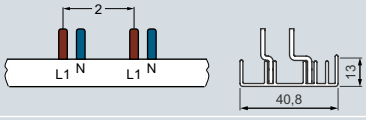
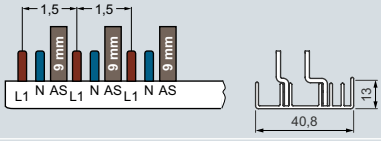
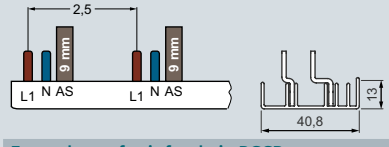
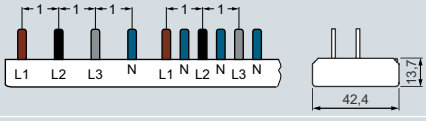
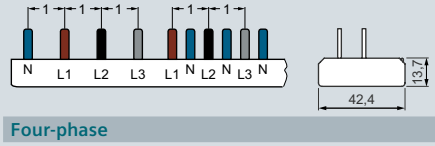
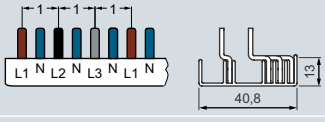
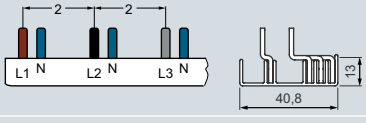
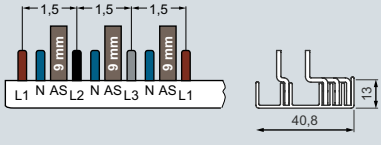
System overview, page 3/5

© Siemens 2020





## 5ST37, can be cut

| Pin spacing in MW (1 MW = 18 mm) | Application | No. of MW | Length | End caps incl. | Conductor cross-section 10 mm² |
|---|---|---|---|---|---|
| **Two-phase, for infeed via RCCB** | | | | | **Article No.** |
|   | For 1× RCCB 1P+N and 10× compact devices | 12 MW | 215 mm | ■ | 5ST3784-0 |
|   | For 1× RCCB 1P+N (RCCB N-left only) and 10× compact devices | 12 MW | 215 mm | ■ | 5ST3784-0KL |
| **Two-phase** | | | | | **Article No.** |
|   | For compact devices | 60 MW | 1060 mm | – | 5ST3774-0 |
|   | For compact devices equipped with 5SM6 arc fault detection device | 59 MW | 1042 mm | – | 5ST3776-0 |
|   | For compact devices equipped with auxiliary switch | 59.5 MW | 1055 mm | – | 5ST3778-0 |
|   | For compact devices equipped with 5SM6 arc fault detection device and auxiliary switch | 58.5 MW | 1036 mm | – | 5ST3780-0 |
| **Four-phase, for infeed via RCCB** | | | | | **Article No.** |
|   | For 1× RCCB 3P+N and 8× compact devices | 12 MW | 216 mm | ■ | 5ST3783-0 |
|   | For 1× RCCB 3P+N (RCCB N-left only) and 8× compact devices | 12 MW | 216 mm | ■ | 5ST3783-0KL |
| **Four-phase** | | | | | **Article No.** |
|   | For compact devices | 60 MW | 1060 mm | – | 5ST3773-0 |
|   | For compact devices equipped with 5SM6 arc fault detection device | 59 MW | 1042 mm | – | 5ST3775-0 |
|   | For compact devices equipped with auxiliary switch | 59.5 MW | 1055 mm | – | 5ST3777-0 |

## Accessories

| Terminals for infeed at side | |
|---|---|
| For conductors up to 25 mm² Short, IP20 | 5ST3771-2 |

| End caps | Article No. |
|---|---|
| Two- and three-phase busbars | 5ST3788-0 |

| Touch protection | | Article No. |
|---|---|---|
| For free connections, yellow (RAL 1004) | For pins L1, N | 5ST3655 |
| | For pins L2, L3 | 5ST3655-0HG |

System overview, page 3/5

© Siemens 2020



# Accessories for busbars

## General accessories

### Terminals

| For conductors | Version | Cable entry | Infeed | Article No. |
|---|---|---|---|---|
| Up to 25 mm² | Short | – | Side | 5ST3768 |
| | Short, IP20 | – | Side | 5ST3771-2 |
| Up to 25 mm² | – | Center | – | 5ST3768-3 |
| | | Left | – | 5ST3768-4 |
| | | Right | – | 5ST3768-5 |
| Up to 30 mm² | – | – | Busbar | 5ST3770-1HG |
| Up to 35 mm² | – | – | Device | 5ST3770-0HG |
| Up to 35 mm² | For 5SJ4... -.HG.. | – | Miniature circuit breaker | 5ST3666-0HG |
| | For 5ST37..-3HG that can be cut | – | Miniature circuit breaker | 5ST3770-3HG |
| Up to 50 mm² | – | Center | – | 5ST3760-3 |
| | | Left | – | 5ST3760-4 |
| | | Right | – | 5ST3760-5 |
| Up to 50 mm² | – | – | Busbar | 5ST3666-2HG |



System overview, page 3/5

© Siemens 2020



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



System overview, page 3/5

© Siemens 2020



# 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 mm² conductors | 20× 5ST3613 + 10× 5ST3614 + 50× 5ST3615 + 50× 5ST3655 | – | 5ST3656 |
| For 16 mm² conductors | 20× 5ST3643 + 10× 5ST3644 + 50× 5ST3645 + 50× 5ST3655 | For 5ST337..-3HG | 5ST3657 |

### End caps

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



System overview, page 3/5

© Siemens 2020



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

3

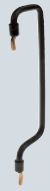
© Siemens 2020



# Accessories for busbars

## General accessories

### Series connectors



| Conductor cross-section | Length of cable | Color | Number of phases | Article No. |
|---|---|---|---|---|
| 10 mm² | 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 mm² | 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 |





System overview, page 3/5

© Siemens 2020



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

3

System overview, page 3/5

© Siemens 2020



# Distribution blocks for standard rail mounting

## Acc. to IEC



**Distribution blocks acc. to IEC**

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

| Further technical specifications | | | 5ST2501 | 5ST2502 | 5ST2503 |
|---|---|---|---|---|---|
| **Standards** | | | | | |
| Standards | | | IEC 60947-7-1 | | |
| **Supply** | | | | | |
| 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 mm² | 1× 6 ... 35 mm² | 1× 10 ... 50 mm² |
| | Finely stranded with end sleeve | | 1× 1.5 ... 10 mm² | 1× 6 ... 25 mm² | 1× 10 ... 35 mm² |
| Outputs per pole | Solid/stranded | | 8× 1.5 ... 10 mm² | 5× 1.5 ... 6 mm²<br>2× 4 ... 16 mm² | 8× 2.5 ... 16 mm²<br>3× 10 ... 35 mm² |
| | Finely stranded with end sleeve | | 8× 1.5 ... 10 mm² | 5× 1.5 ... 6 mm² (small)<br>2× 4 ... 10 mm² (large) | 8× 1.5 ... 16 mm² (small)<br>3× 10 ... 25 mm² (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 | | IP 20 | | |
| Approved cable | | | Copper | | |



System overview, page 3/5

© Siemens 2020



# According to IEC and UL

**Distribution blocks acc. to IEC and UL**

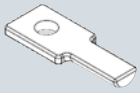
| Number of poles | Operational voltage $U_e$ | Rated current $I_e$ | Mounting width | Article No. |
|---|---|---|---|---|
| 1-pole | 600 V AC | 80 A | 1.5 MW | 5ST2504 |
| | | 125 A | 1.5 MW | 5ST2505 |
| | | 160 A | 2 MW | 5ST2507 |
| | | 250 A | 2.5 MW | 5ST2508 |
| | | 350 A | 2.5 MW | 5ST2511 |

**Connector for 5ST2505 distribution board**

- Touch protection
- 20 mm²
- 32 mm

| Version | Article No. |
|---|---|
| Single-phase | 5ST2506 |

**Terminal lug for ring terminal ends**



| Versions | Article No. |
|---|---|
| For 5ST2508 distribution block | 5ST2510 |
| For 5ST2511 distribution block | 5ST2512 |

## Further technical specifications

| | | | 5ST2504 | 5ST2505 | 5ST2507 | 5ST2508 | 5ST2511 |
|---|---|---|---|---|---|---|---|
| **Standards** | | | | | | | |
| Standards | | | UL 1059 / UL 486E / IEC 60947-7-1<br>UL File No. E80027 / XCFR2<br>C22.2 No. 158 -1987 / XCFR8 | | | | |
| **Supply** | | | | | | | |
| Operational voltage | | UL | 600 V AC | | | | |
| | | IEC | 1000/1500 V AC/DC | | | | |
| Max. rated current | | UL | 80 A | 115 A | 160 A | 230 A | 310 A |
| | | IEC | 80 A | 125 A | 160 A | 250 A | 400 A |
| **Conductor cross-section** | | | | | | | |
| Inputs per pole | Solid/stranded | Large | 3× 2.5 ... 25 mm² | 10 ... 35 mm² | 10 ... 70 mm² | 35 ... 120 mm² | 95 ... 185 mm² |
| | | | 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 mm² | – | | |
| | | | – | AWG 1× 14 ... 6 | – | | |
| | Finely stranded with end sleeve | Large | 3× 2.5 ... 16 mm² | 10 ... 35 mm² | 10 ... 50 mm² | 35 ... 95 mm² | 95 ... 150 mm² |
| | | | 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 mm² | – | | |
| | | | – | AWG 1× 14 ... 6 | – | | |
| Outputs per pole | Solid/stranded | Top | 2.5 ... 6 mm² | 2.5 ... 16 mm² | 2.5 ... 16 mm² | 2.5 ... 10 mm² | 2× 2.5... 35 mm² |
| | | | AWG 4× 14 ... 10 | AWG 6× 14 ... 4 | AWG 6× 14 ... 4 | AWG 4× 16 ... 8 | AWG 2× 14 ... 2 |
| | | Center | – | | | 2.5 ... 16 mm² | 5× 2.5 ... 16 mm² |
| | | | – | | | AWG 5 x 14 ... 6 | |
| | | Bottom | 2.5 ... 6 mm² | – | | 2× 2.5... 35 mm² | 4× 2.5 ... 10 mm² |
| | | | AWG 4× 14 ... 10 | – | | AWG 2 x 14 ... 2 | AWG 4 x 14 ... 8 |
| | Finely stranded with end sleeve | Top | 2.5 ... 6 mm² | 2.5 ... 16 mm² | | 2× 2.5... 25 mm² | |
| | | | AWG 4× 14 ... 10 | AWG 6× 14 ... 6 | AWG 6× 14 ... 4 | AWG 2× 14 ... 4 | |
| | | Bottom | 2.5 ... 6 mm² | – | | 2× 2.5... 25 mm² | 4× 2.5 ... 25 mm² |
| | | | AWG 4× 14 ... 10 | – | | AWG 2 x 14 ... 4 | AWG 5 x 14 ... 4 |

Continued on next page

© Siemens 2020



# 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 | | | | |



System overview, page 3/5

© Siemens 2020



# 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 mm² | Black | 5ST2523 |
| | | Blue | 5ST2524 |
| | 10 mm² | Black | 5ST2525 |
| | | Blue | 5ST2526 |
| 200 mm | 6 mm² | Black | 5ST2527 |
| | | Blue | 5ST2528 |
| | 10 mm² | Black | 5ST2530 |
| | | Blue | 5ST2531 |

**Crimp connector**

- For connection to cables 4/6 mm²

| Article No. |
|---|
| 5ST2532 |

**Mounting brackets**

- For mounting on the rear of the standard mounting rail (pair)

| Article No. |
|---|
| 5ST2533 |

## Further technical specifications

| | 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 mm²), 63 A (10 mm²) |
| Connecting cable type | H07VK |
| Ambient temperature | −5 ... +60 °C |

System overview, page 3/5

© Siemens 2020


# 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 Germany

For customers with a seat or registered office in Germany, 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 installation work the „General Conditions for Erection Works – Germany"[1] („Allgemeine Montagebedingungen – Deutschland" (currently only available in German)) and/or
- 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 other supplies and/or services the „General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry"[1]. In case such supplies and/or services 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 Germany

For customers with a seat or registered office outside Germany, 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 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.

## 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.

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 labeled with „AL" unequal „N" are subject to European / national export authorization. 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.

[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

© Siemens 2020


If you transfer goods (hardware and/or software and/or technology as well as corresponding documentation, regardless of the mode of provision) delivered by us or works and services (including all kinds of technical support) performed by us to a third party worldwide, you must comply with all applicable national and international (re-)export control regulations.

If required for the purpose of conducting export control checks, you (upon request by us) shall promptly provide us with all information pertaining to the particular end customer, final disposition and intended use of goods delivered by us respectively works and services provided by us, as well as to any export control restrictions existing in this relation.

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.

© Siemens 2020


# 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/lowvoltage/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 | 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/industrymall |
| Direct forwarding to the Industry Mall | www.siemens.com/product?Article No. |
| Training | www.siemens.com/sitrain-lowvoltage |
| Local contacts | www.siemens.com/lowvoltage/contact |
| Technical Support | www.siemens.com/lowvoltage/support-request |
| Information on services | www.siemens.com/service-catalog |
| Manual for the generation, transmission and distribution of electrical energy | www.siemens.com/power-engineering-guide |
| Control panels for the North American market | www.siemens.com/northamerican-standards |
| Control panel building | www.siemens.com/controlpanel |
| Energy savings and amortization | www.automation.siemens.com/sinasave |
| Energy Suite | www.siemens.com/energysuite |
| SITOP power supplies | www.siemens.com/sitop |
| Power distribution with Totally Integrated Power | www.siemens.com/tip |

© Siemens 2020

# 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-B1-7600)
Print (E86060-K8280-A101-A6-7600)

**LV 14**
**Power Monitoring Made Simple**
SENTRON

PDF/Print (E86060-K1814-A101-A6-7600)

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

PDF (E86060-K8280-E347-A4-7600)

**ET D1**
**Switches and Socket Outlets**
DELTA

PDF

**IC 10**
**Industrial Controls**
SIRIUS

PDF/Print (E86060-K1010-A101-B1-7600)

**Industry Mall**
Information and Ordering Platform on the Internet:

www.siemens.com/industrymall

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

www.siemens.com/tst

**Training for Industry**
SITRAIN

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

© Siemens 2020

## Get more information

**www.siemens.com/lowvoltage**

Published by
Siemens AG

Smart Infrastructure
Low Voltage Products
Siemensstraße 10
93055 Regensburg, Germany

For the U.S. published by
Siemens Industry Inc.

100 Technology Drive
Alpharetta, GA 30005
United States

PDF (Extract from E86060-K8280-A101-B1-7600)
KG 0520 80 En
Produced in Germany
© Siemens 2020

Subject to changes and errors. The information given in this catalog only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

All product designations may be trademarks or other rights of Siemens AG, its affiliated companies or other companies whose use by third parties for their own purposes could violate the rights of the respective owner.

## Security information

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

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

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

For additional information on industrial security measures that may be implemented, please visit
**https://www.siemens.com/industrialsecurity**

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

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under
**https://www.siemens.com/industrialsecurity**