



## More safety for humans, plants and assets

The number of electrical consumers in residential homes and commercial buildings has increased dramatically in recent decades.

Modern appliances often have quite different characteristics in terms of current consumption than earlier equipment due, for example, to the use of frequency converters in washing machines, or switched-mode power supply units in TVs, PCs or LED lights.

There are also decentralized power generators like photovoltaic systems or charging devices for electric vehicles.

All of this requires new protection strategies for electrical installations. This also includes appropriate residual current protective devices or residual current operated circuit breakers that will cut the current immediately and safely in the event of a fault.

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



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# A wealth of additional information ...

## Information + ordering

### All the important things at a glance

For information about residual current protective devices/arc fault detection devices, please visit our websites

[www.siemens.com/rccb](http://www.siemens.com/rccb)

[www.siemens.com/protection-concept](http://www.siemens.com/protection-concept)

### Your product in detail

The Siemens Industry Online Support (SIOS) provides comprehensive information

[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

- Technical Basic Information
  - SENTRON protection concept (**109767456**)
- Technology Primer
  - Residual current protective devices (**109482301**)

The relevant tender specifications can be found at [www.siemens.com/lowvoltage/tenderspecifications](http://www.siemens.com/lowvoltage/tenderspecifications)

Use our conversion tool for quick and easy conversion to Siemens products [www.siemens.com/conversion-tool](http://www.siemens.com/conversion-tool)

### Siemens YouTube channel

- Residual current protective devices (general)  
[bit.ly/2YuWkNc](https://bit.ly/2YuWkNc)

### Everything you need for your order

Refer to the Industry Mall for an overview of your products

- SENTRON residual current protective devices  
[sie.ag/2m55Y7j](http://sie.ag/2m55Y7j)

Direct forwarding to the individual products in the Industry Mall by clicking on the article number in the catalog or entering this web address incl. article number [www.siemens.com/product?Article No.](http://www.siemens.com/product?Article No.)

## The fast track to the experts

### Contact persons in your region

We offer a comprehensive portfolio of services.

You can find your local contacts at

[www.siemens.com/lowvoltage/components/contact](http://www.siemens.com/lowvoltage/components/contact)

You will find further information on services at

[www.siemens.com/service-catalog](http://www.siemens.com/service-catalog)

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

Assistance with technical queries is provided at

[www.siemens.com/support-request](http://www.siemens.com/support-request)

# ... can be found in our online services

## Commissioning + operation

### Your product in detail

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

[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support)

- Operating instructions
- Characteristic curves
- Certificates

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

You will find further information at

[www.siemens.com/support-app](http://www.siemens.com/support-app)

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

- Siemens Industry Mall  
[www.siemens.com/lowvoltage/mall](http://www.siemens.com/lowvoltage/mall)
- Image database  
[www.siemens.com/lowvoltage/picturedb](http://www.siemens.com/lowvoltage/picturedb)

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

[www.siemens.com/cax](http://www.siemens.com/cax)

### Manuals

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

[www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

- Configuration Manual
  - Residual current protective devices/arc fault detection devices [\(45303255\)](#)
- Installation Manual
  - SENTRON circuit protection devices with communication and measuring function [\(109791805\)](#)
- System Manual
  - SENTRON circuit protection devices with communication and measuring function [\(109791806\)](#)

### Face-to-face or online training

Our training courses can be found at

[www.siemens.com/sitrain-lowvoltage](http://www.siemens.com/sitrain-lowvoltage)

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

## Technical overview – Residual current protective devices/arc fault detection devices



### The fast way to get you to our online services

This page provides you with comprehensive information and links on residual current protective devices/arc fault detection devices

[www.siemens.com/lowvoltage/product-support](http://www.siemens.com/lowvoltage/product-support) [\(109769082\)](#)

# System overview

## Basic units and accessories

### Basic units



5SV3 RCCBs



5SM3 RCCBs



5SM2 RC units



5SU1 RCBOs



5SV1 RCBOs

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

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### Electrical accessories



Auxiliary switches (AS)

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

Shunt trips (ST)

Undervoltage releases  
(UR)Remote control  
mechanisms  
(RC mech.)

### Mechanical accessories



Locking devices



Handle couplers



Touch protection



Wall enclosures

Molded-plastic  
enclosures

Terminal covers

### Busbars and accessories



Compact busbars



Standard busbars



Terminals



Touch protection



End caps

### RCCB protective socket outlets

In molded-plastic  
enclosureFor mounting  
on device box

#### Note:

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

# Introduction

## Residual current protective devices

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Selection criteria

Equipment,  
power,  
ambient  
conditions

### Design

RCCBs

RCBOs

RC units

### Number of pole

1P+N

2P

3P

3P+N

4P

### Rated current $I_n$

0.3 ... 125 A

### Types and waveform



|         |  |   |   |   |   |   |   |   |
|---------|--|---|---|---|---|---|---|---|
| Type AC |  | ■ | — | — | — | — | — | — |
| Type A  |  | ■ | ■ | ■ | ■ | — | — | — |
| Type F  |  | ■ | ■ | ■ | ■ | ■ | ■ | — |
| Type B  |  | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Type B+ |  | ■ | ■ | ■ | ■ | ■ | ■ | ■ |

### Version

SIGRES

With active condensation protection for use in severe ambient conditions

[G]/[K]

Super resistant, 10 ms short-term delayed devices with increased immunity to false triggering due to transient disruptions

[S]

As an upstream group switch for selective shutdown against downstream RCCBs

500 V

With their creepage distances and clearances designed for power grids up to 500 V alternating voltage

50 ... 400 Hz

Meet the triggering conditions up to 400 Hz due to low decrease in sensitivity with increasing frequency

Protection objective,  
equipment  
directives  
VDE 0100-410,  
VDE 0100-530,  
VDE 0100-7xx,  
VDS 3501,  
shutdown  
conditions  
according to  
VDE 0100-410

### Rated residual current $I_{\Delta n}$ (protection objective)

Additional protection  $I_{\Delta n} \leq 30$  mAError protection  $I_{\Delta n} > 30$  mAFire protection  $I_{\Delta n} \leq 300$  mA

### Characteristic CB (for residual current operated circuit breakers)

A

B

C

D

# RCCBs


**5SV**

| Types                                                       |                                               |                                    | Instantaneous                                                                                                                                           | SIGRES,<br>instantaneous | Short-time delayed [G] |
|-------------------------------------------------------------|-----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|
| Type AC                                                     |                                               |                                    | ■                                                                                                                                                       | –                        | –                      |
| Type A                                                      |                                               |                                    | ■                                                                                                                                                       | ■                        | ■                      |
| Type F                                                      |                                               |                                    | –                                                                                                                                                       | –                        | –                      |
| Type B/B+                                                   |                                               |                                    | –                                                                                                                                                       | –                        | –                      |
| Peak withstand current 8/20 μs                              |                                               |                                    |                                                                                                                                                         |                          |                        |
| Type A                                                      |                                               | kA                                 | >1                                                                                                                                                      |                          | >3                     |
| Type F                                                      |                                               | kA                                 | –                                                                                                                                                       | –                        | >3                     |
| Type B/B+                                                   |                                               | kA                                 | –                                                                                                                                                       | –                        | –                      |
| Minimum operational voltage for operation of test equipment |                                               |                                    |                                                                                                                                                         |                          |                        |
| 30-mA devices                                               |                                               | V AC                               | 195                                                                                                                                                     |                          |                        |
| Non-30-mA devices                                           |                                               | V AC                               | 100                                                                                                                                                     |                          |                        |
| 24 V devices                                                |                                               | V AC                               | 20                                                                                                                                                      |                          |                        |
| Terminal conductor cross-sections                           |                                               |                                    |                                                                                                                                                         |                          |                        |
| 1 conductor                                                 | Solid/stranded                                | mm²                                | 0.75 ... 35                                                                                                                                             |                          |                        |
|                                                             | Finely stranded with end sleeve               | mm²                                | 0.75 ... 25                                                                                                                                             |                          |                        |
|                                                             | Finely stranded without end sleeve            | mm²                                | 1 ... 35                                                                                                                                                |                          |                        |
| 2 conductors, same cross-section,<br>same conductor type    | Solid/stranded                                | mm²                                | 0.75 ... 10                                                                                                                                             |                          |                        |
|                                                             | Finely stranded with end sleeve               | mm²                                | 0.75 ... 4                                                                                                                                              |                          |                        |
|                                                             | Finely stranded without end sleeve            | mm²                                | 1 ... 4                                                                                                                                                 |                          |                        |
| 1 conductor + busbar<br>(pin thickness 1.5 mm)              | Solid/stranded                                | mm²                                | 10 ... 25                                                                                                                                               |                          |                        |
|                                                             | Finely stranded with non-insulated end sleeve | mm²                                | 6 ... 25                                                                                                                                                |                          |                        |
|                                                             | Finely stranded with insulated end sleeve     | mm²                                | 6 ... 16                                                                                                                                                |                          |                        |
| Terminal tightening torque                                  |                                               | Nm                                 | 2.5... 3.5                                                                                                                                              |                          |                        |
| Poles                                                       |                                               |                                    |                                                                                                                                                         |                          |                        |
| Number of poles                                             |                                               |                                    | 1P+N   3P+N                                                                                                                                             |                          |                        |
| Rated voltage $U_n$                                         |                                               | V AC                               | 24 ... 125   230   400   500                                                                                                                            |                          |                        |
| Operating frequency                                         |                                               | Hz                                 | 50   50 ... 400   50/60                                                                                                                                 |                          |                        |
| Standards                                                   |                                               |                                    |                                                                                                                                                         |                          |                        |
|                                                             |                                               |                                    | IEC/EN 61008 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11),<br>IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40),<br>ÖVE EN 61008,ÖVE/ÖNORM E 8601 |                          |                        |
|                                                             |                                               |                                    |                                                                                                                                                         |                          |                        |
| Rated residual current $I_{\Delta n}$                       |                                               | mA                                 | 10, 30, 100, 300, 500, 1000                                                                                                                             |                          |                        |
| Rated current $I_n$                                         |                                               | A                                  | 16 ... 80                                                                                                                                               |                          |                        |
| Rated breaking capacity $I_{cn}$                            |                                               | kA                                 | –                                                                                                                                                       |                          |                        |
| Connection                                                  |                                               |                                    | N right   N left                                                                                                                                        |                          |                        |
| Service life                                                |                                               | Average number of operating cycles | >10000                                                                                                                                                  |                          |                        |
| Test button test cycles                                     |                                               |                                    | Half-yearly <sup>1)</sup>   SIGRES annually <sup>2)</sup>                                                                                               |                          |                        |
| Degree of protection                                        |                                               | Acc. to EN 60529 (VDE 0470-1)      | IP20, if the distribution board is installed,<br>with connected conductors                                                                              |                          |                        |
| Touch protection                                            |                                               | Acc. to EN 50274 (VDE 0660-514)    | Finger and back-of-hand safe                                                                                                                            |                          |                        |
| Temperature                                                 |                                               | Storage temperature °C             | -40 ... +75 °C                                                                                                                                          |                          |                        |
|                                                             |                                               | Ambient temperature °C             | -25 ... +45, marked with                                           |                          |                        |
| Resistance to climate                                       |                                               | Acc. to IEC 60068-2-30             | 28 cycles (55 °C; 95% rel. humidity)                                                                                                                    |                          |                        |
| CFC and silicone-free                                       |                                               |                                    | ■                                                                                                                                                       |                          |                        |
| Mains connection                                            |                                               |                                    | Top   bottom   SIGRES on top only                                                                                                                       |                          |                        |
| Overvoltage category   Degree of pollution                  |                                               |                                    | III   2                                                                                                                                                 |                          |                        |
| Further information                                         |                                               |                                    |                                                                                                                                                         |                          |                        |

[See page 4/14](#)
<sup>1)</sup> Extension to annual test interval under certain conditions

<sup>2)</sup> Extension to four-yearly test interval under certain conditions



## 5SV

## SIQUENCE 5SV3

## 5SM3

| Super resistant [K]                                                                                                                               | Selective [S] | SIGRES, selective [S] | SIGRES, super resistant [K]                                                                                  | SIGRES, selective [S] | Instantaneous                                                                                                        | Selective [S] |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------|--------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------|---------------|
| –                                                                                                                                                 | –             | –                     | –                                                                                                            | –                     | ■                                                                                                                    | ■             |
| ■                                                                                                                                                 | ■             | ■                     | –                                                                                                            | –                     | ■                                                                                                                    | ■             |
| ■                                                                                                                                                 | ■             | –                     | –                                                                                                            | –                     | –                                                                                                                    | –             |
| –                                                                                                                                                 | –             | –                     | ■                                                                                                            | ■                     | –                                                                                                                    | –             |
|                                                                                                                                                   |               |                       |                                                                                                              |                       |                                                                                                                      |               |
| >3                                                                                                                                                | >5            |                       | –                                                                                                            | –                     | >1                                                                                                                   | >5            |
| >3                                                                                                                                                | –             | –                     | –                                                                                                            | –                     | –                                                                                                                    | –             |
| –                                                                                                                                                 | –             | –                     | >3                                                                                                           | >5                    | –                                                                                                                    | –             |
| 195                                                                                                                                               |               |                       | 70                                                                                                           |                       | 195                                                                                                                  |               |
| 100                                                                                                                                               |               |                       | 70                                                                                                           |                       | 195                                                                                                                  |               |
| 20                                                                                                                                                |               |                       | –                                                                                                            |                       | –                                                                                                                    |               |
|                                                                                                                                                   |               |                       |                                                                                                              |                       |                                                                                                                      |               |
| 0.75 ... 35                                                                                                                                       |               |                       | 0.75 ... 35                                                                                                  |                       | 1.5 ... 50 (2 MW)   2.5 ... 50 (4 MW)                                                                                |               |
| 0.75 ... 25                                                                                                                                       |               |                       | 0.75 ... 25                                                                                                  |                       | –                                                                                                                    |               |
| 1 ... 35                                                                                                                                          |               |                       | 1 ... 35                                                                                                     |                       | –                                                                                                                    |               |
| 0.75 ... 10                                                                                                                                       |               |                       | 0.75 ... 10                                                                                                  |                       | –                                                                                                                    |               |
| 0.75 ... 4                                                                                                                                        |               |                       | 0.75 ... 4                                                                                                   |                       | –                                                                                                                    |               |
| 1 ... 4                                                                                                                                           |               |                       | 1 ... 4                                                                                                      |                       | –                                                                                                                    |               |
| 10 ... 25                                                                                                                                         |               |                       | 0.75 ... 35                                                                                                  |                       | –                                                                                                                    |               |
| 6 ... 25                                                                                                                                          |               |                       | 0.75 ... 25                                                                                                  |                       | –                                                                                                                    |               |
| 6 ... 16                                                                                                                                          |               |                       | 1 ... 35                                                                                                     |                       | –                                                                                                                    |               |
| 2.5... 3.5                                                                                                                                        |               |                       | 2.5 ... 3.0                                                                                                  |                       | 3.0... 3.5                                                                                                           |               |
|                                                                                                                                                   |               |                       |                                                                                                              |                       |                                                                                                                      |               |
| 1P+N   3P+N                                                                                                                                       |               |                       | 1P+N   3P+N                                                                                                  |                       | 1P+N   3P+N                                                                                                          |               |
| 24 ... 125   230   400   500                                                                                                                      |               |                       | 230   400                                                                                                    |                       | 230   400                                                                                                            |               |
| 50/60                                                                                                                                             |               |                       | 50/60                                                                                                        |                       | 50                                                                                                                   |               |
|                                                                                                                                                   |               |                       |                                                                                                              |                       |                                                                                                                      |               |
| IEC/EN 61008 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40), ÖVE EN 61008,ÖVE/ÖNORM E 8601 |               |                       | IEC/EN 62423 (VDE 0664-40), IEC/EN 61543 (VDE 0664-30), DIN VDE 0664-400 (Type B+ only)                      |                       | IEC/EN 61008-1 (VDE 0664-10), IEC/EN 61008-2-1 (VDE 0664-11), IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40) |               |
|                                                                                                                                                   |               |                       |                                                                                                              |                       |                                                                                                                      |               |
| 10, 30, 100, 300, 500, 1000                                                                                                                       |               |                       | 30, 300, 500                                                                                                 |                       | 30, 100, 300, 500                                                                                                    |               |
| 16 ... 80                                                                                                                                         |               |                       | 16 ... 80                                                                                                    |                       | 100 ... 125                                                                                                          |               |
| –                                                                                                                                                 |               |                       | –                                                                                                            |                       | –                                                                                                                    |               |
| N right   N left                                                                                                                                  |               |                       | N right                                                                                                      |                       | N right                                                                                                              |               |
| >10000                                                                                                                                            |               |                       | >10000                                                                                                       |                       | >10000                                                                                                               |               |
| Half-yearly <sup>1)</sup>   SIGRES annually <sup>2)</sup>                                                                                         |               |                       | Annually <sup>2)</sup>                                                                                       |                       | Half-yearly                                                                                                          |               |
| IP20, if the distribution board is installed, with connected conductors                                                                           |               |                       | IP20, if the distribution board is installed, with connected conductors                                      |                       | IP20, if the distribution board is installed, with connected conductors                                              |               |
| Finger and back-of-hand safe                                                                                                                      |               |                       | Finger and back-of-hand safe                                                                                 |                       | Finger and back-of-hand safe                                                                                         |               |
| -40 ... +75 °C                                                                                                                                    |               |                       | -40 ... +75 °C                                                                                               |                       | -40 ... +75 °C                                                                                                       |               |
| -25 ... +45, marked with                                       |               |                       | -25 ... +45, marked with  |                       | -25 ... +45, marked with        |               |
| 28 cycles (55 °C; 95% rel. humidity)                                                                                                              |               |                       | 28 cycles (55 °C; 95% rel. humidity)                                                                         |                       | 28 cycles (55 °C; 95% rel. humidity)                                                                                 |               |
| ■                                                                                                                                                 |               |                       | ■                                                                                                            |                       | ■                                                                                                                    |               |
| Top   bottom   SIGRES on top only                                                                                                                 |               |                       | Top   bottom   SIGRES on top only                                                                            |                       | Top   bottom                                                                                                         |               |
| III   2                                                                                                                                           |               |                       | III   2                                                                                                      |                       | III   2                                                                                                              |               |
|                                                                                                                                                   |               |                       |                                                                                                              |                       |                                                                                                                      |               |
| See page 4/14                                                                                                                                     |               |                       | See page 4/26                                                                                                |                       | See page 4/30                                                                                                        |               |

# RC units



## 5SM2 (0.3 ... 63 A)

### Types

Type AC

Type A

Type F

### Instantaneous

■

■

–

### Peak withstand current 8/20 μs

Type A

kA

&gt;1

Type F

kA

–

### Minimum operational voltage for test equipment

30-mA devices

V AC

195

Non-30-mA devices

V AC

100

### Terminal conductor cross-sections

Solid/stranded

mm<sup>2</sup>

1.0 ... 25

Terminal tightening torque

Nm

2.5 ... 3.0

### Poles

Number of poles

2P | 3P | 4P

Rated voltage  $U_n$ 

V AC

230 | 400

Operating frequency

Hz

50 | 50/60

### Standards

IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21),  
IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40)Rated residual current  $I_{\Delta n}$ 

mA

10, 30, 100, 300, 500, 1000

Rated current  $I_n$ 

A

0.3 ... 63

Service life

Average number of operating cycles

&gt;10000

Test button test cycles

Half-yearly<sup>1)</sup>

Degree of protection

Acc. to EN 60529 (VDE 0470-1)

IP20, if the distribution board is installed, with connected conductors

Touch protection

Acc. to EN 50274 (VDE 0660-514)

Finger and back-of-hand safe

Temperature

Storage temperature

°C

-40 ... +75 °C

Ambient temperature

°C

-25 ... +45, marked with 

Resistance to climate

Acc. to IEC 60068-2-30

28 cycles (55 °C; 95% rel. humidity)

CFC and silicone-free

■

Mains connection

Top | bottom

Overvoltage category | Degree of pollution

III | 2

### Further information

See page 4/32

<sup>1)</sup> Extension to annual test interval under certain conditions

<sup>2)</sup> Extension to four-yearly test interval under certain conditions



## 5SM2 (0.3 ... 63 A)

## 5SM2 (80 ... 100 A)

| Super resistant [K]                                                                                                     | Selective [S]  | SIGRES, instantaneous <b>new</b> | Instantaneous                                                                                                           | Selective [S] |
|-------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------|
| ■                                                                                                                       | ■              | –                                | ■                                                                                                                       | ■             |
| ■                                                                                                                       | ■              | ■                                | ■                                                                                                                       | ■             |
| ■                                                                                                                       | –              | –                                | –                                                                                                                       | –             |
|                                                                                                                         |                |                                  |                                                                                                                         |               |
| >3                                                                                                                      | >5             | >1                               | >1                                                                                                                      | >5            |
| >3                                                                                                                      | –              | –                                | –                                                                                                                       | –             |
|                                                                                                                         |                |                                  |                                                                                                                         |               |
| 195                                                                                                                     |                |                                  | 195                                                                                                                     |               |
| 100                                                                                                                     |                |                                  | 100                                                                                                                     |               |
|                                                                                                                         |                |                                  |                                                                                                                         |               |
| 1.0 ... 25                                                                                                              |                |                                  | 6.0 ... 50                                                                                                              |               |
| 2.5 ... 3.0                                                                                                             |                |                                  | 2.5 ... 3.0                                                                                                             |               |
|                                                                                                                         |                |                                  |                                                                                                                         |               |
| 2P   3P   4P                                                                                                            |                | 4P                               | 2P   4P                                                                                                                 |               |
| 230   400                                                                                                               |                |                                  | 230   400                                                                                                               |               |
| 50   50/60                                                                                                              |                |                                  | 50   50/60                                                                                                              |               |
|                                                                                                                         |                |                                  |                                                                                                                         |               |
| IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21),<br>IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40) |                |                                  | IEC/EN 61009-1 (VDE 0664-20), IEC/EN 61009-2-1 (VDE 0664-21),<br>IEC/EN 61543 (VDE 0664-30), IEC/EN 62423 (VDE 0664-40) |               |
|                                                                                                                         |                |                                  |                                                                                                                         |               |
| 30                                                                                                                      | 300, 500, 1000 | 30, 300                          | 30, 300                                                                                                                 | 300, 1000     |
| 0.3 ... 63                                                                                                              |                |                                  | 80 ... 100                                                                                                              |               |
| >10000                                                                                                                  |                |                                  | >10000                                                                                                                  |               |
| Half-yearly <sup>1)</sup>                                                                                               |                | Yearly <sup>2)</sup>             | Half-yearly <sup>1)</sup>                                                                                               |               |
| IP20, if the distribution board is installed, with connected conductors                                                 |                |                                  | IP20, if the distribution board is installed,<br>with connected conductors                                              |               |
| Finger and back-of-hand safe                                                                                            |                |                                  | Finger and back-of-hand safe                                                                                            |               |
| -40 ... +75 °C                                                                                                          |                |                                  | -40 ... +75 °C                                                                                                          |               |
| -25 ... +45, marked with             |                |                                  | -25 ... +45, marked with           |               |
| 28 cycles (55 °C; 95% rel. humidity)                                                                                    |                |                                  | 28 cycles (55 °C; 95% rel. humidity)                                                                                    |               |
| ■                                                                                                                       |                |                                  | ■                                                                                                                       |               |
| Top   bottom                                                                                                            |                |                                  | Top   bottom                                                                                                            |               |
| III   2                                                                                                                 |                |                                  | III   2                                                                                                                 |               |
|                                                                                                                         |                |                                  |                                                                                                                         |               |
| See page 4/32                                                                                                           |                |                                  | See page 4/32                                                                                                           |               |

# RCBOs



## 5SU1 (up to 40 A)

| Types                                               |                                               |                                    | Instantaneous                                                                                                                 | Short-time delayed/<br>Super resistant | Selective [S] |
|-----------------------------------------------------|-----------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------|
| Type AC                                             |                                               |                                    | ■                                                                                                                             | ■                                      | –             |
| Type A                                              |                                               |                                    | ■                                                                                                                             | ■                                      | ■             |
| Type B                                              |                                               |                                    | –                                                                                                                             | –                                      | –             |
| Type B+                                             |                                               |                                    | –                                                                                                                             | –                                      | –             |
| Type F                                              |                                               |                                    | –                                                                                                                             | ■                                      | –             |
| Peak withstand current 8/20 μs                      |                                               |                                    |                                                                                                                               |                                        |               |
| Type A                                              |                                               | kA                                 | >1                                                                                                                            | >3                                     | >5            |
| Type F                                              |                                               | kA                                 | –                                                                                                                             | >3                                     | –             |
| Minimum voltage for operation of the test equipment |                                               |                                    |                                                                                                                               |                                        |               |
| 30-mA devices                                       |                                               | V AC                               | 195                                                                                                                           |                                        |               |
| Non-30-mA devices                                   |                                               | V AC                               | 100                                                                                                                           |                                        |               |
| Terminal conductor cross-sections                   |                                               |                                    |                                                                                                                               |                                        |               |
| 1 conductor at front + busbar at rear               | Solid/stranded                                | mm²                                | 0.75 ... 35                                                                                                                   |                                        |               |
|                                                     | Finely stranded with end sleeve               | mm²                                | 0.75 ... 25                                                                                                                   |                                        |               |
|                                                     | Finely stranded without end sleeve            | mm²                                | 1 ... 25                                                                                                                      |                                        |               |
| 2 conductors at rear                                | Solid/stranded                                | mm²                                | 0.75 ... 6                                                                                                                    |                                        |               |
|                                                     | Finely stranded with non-insulated end sleeve | mm²                                | 0.75 ... 4                                                                                                                    |                                        |               |
|                                                     | Finely stranded with insulated end sleeve     | mm²                                | 0.75 ... 4                                                                                                                    |                                        |               |
|                                                     | Finely stranded without end sleeve            | mm²                                | 1 ... 4                                                                                                                       |                                        |               |
| Terminal tightening torque                          |                                               | Nm                                 | 2.5 ... 3.0                                                                                                                   |                                        |               |
| Poles                                               |                                               |                                    |                                                                                                                               |                                        |               |
| Number of poles                                     |                                               |                                    | 1P+N   2P                                                                                                                     |                                        |               |
| Rated voltage $U_n$                                 |                                               | V AC                               | 110   230                                                                                                                     |                                        |               |
| Operating frequency                                 |                                               | Hz                                 | 50   50/60                                                                                                                    |                                        |               |
| Standards                                           |                                               |                                    |                                                                                                                               |                                        |               |
|                                                     |                                               |                                    | IEC/EN 61009-1 (VDE 0664-20),<br>IEC/EN 61009-2-1 (VDE 0664-21),<br>IEC/EN 61543 (VDE 0664-30),<br>IEC/EN 62423 (VDE 0664-40) |                                        |               |
|                                                     |                                               |                                    |                                                                                                                               |                                        |               |
| Rated residual current $I_{\Delta n}$               |                                               | mA                                 | 10, 30, 100, 300                                                                                                              |                                        |               |
| Rated current $I_n$                                 |                                               | A                                  | 6 ... 40                                                                                                                      |                                        |               |
| Rated breaking capacity $I_{cn}$                    |                                               | kA                                 | 4.5   6   10                                                                                                                  |                                        |               |
| Connection                                          |                                               |                                    | N right   N left                                                                                                              |                                        |               |
| Service life                                        |                                               | Average number of operating cycles | >10000                                                                                                                        |                                        |               |
| Test button test cycles                             |                                               |                                    | Half-yearly <sup>1)</sup>                                                                                                     |                                        |               |
| Degree of protection                                |                                               | Acc. to EN 60529 (VDE 0470-1)      | IP20, if the distribution board is installed,<br>with connected conductors                                                    |                                        |               |
| Touch protection                                    |                                               | Acc. to EN 50274 (VDE 0660-514)    | Finger and back-of-hand safe                                                                                                  |                                        |               |
| Temperature                                         | Storage temperature                           | °C                                 | -40 ... +75 °C                                                                                                                |                                        |               |
|                                                     | Ambient temperature                           | °C                                 | -25 ... +45, marked with                 |                                        |               |
| Resistance to climate                               |                                               | Acc. to IEC 60068-2-30             | 28 cycles (55 °C; 95% rel. humidity)                                                                                          |                                        |               |
| CFC and silicone-free                               |                                               |                                    | ■                                                                                                                             |                                        |               |
| Mains connection                                    |                                               |                                    | Top   bottom                                                                                                                  |                                        |               |
| Energy limitation class                             |                                               |                                    | 3                                                                                                                             |                                        |               |
| Overvoltage category   Degree of pollution          |                                               |                                    | III   2                                                                                                                       |                                        |               |
| Further information                                 |                                               |                                    |                                                                                                                               |                                        |               |

See page 4/42

<sup>1)</sup> Extension to annual test interval under certain conditions



### 5SV1

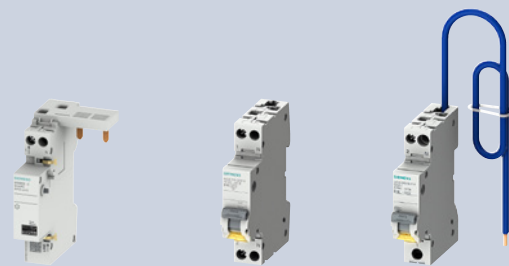
### 5SU1 (up to 32 A)

### 5SU1 (125 A)

### 5SU1 (100 A, 125 A)

| Instantaneous                                                                                                                 | Short-time delayed/<br>Super resistant | Instantaneous                                                              | Short-time delayed/<br>Super resistant | Instantaneous                                                                                                                 | Short-time delayed/<br>Super resistant | Short-time delayed/<br>Super resistant                                                                                        | Selective [S] |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|---------------|
| ■                                                                                                                             | –                                      | –                                                                          | –                                      | ■                                                                                                                             | ■                                      | –                                                                                                                             | –             |
| ■                                                                                                                             | ■                                      | ■                                                                          | ■                                      | ■                                                                                                                             | ■                                      | –                                                                                                                             | –             |
| –                                                                                                                             | –                                      | –                                                                          | –                                      | –                                                                                                                             | –                                      | ■                                                                                                                             | ■             |
| –                                                                                                                             | –                                      | –                                                                          | –                                      | –                                                                                                                             | –                                      | ■                                                                                                                             | ■             |
| –                                                                                                                             | ■                                      | –                                                                          | –                                      | –                                                                                                                             | –                                      | –                                                                                                                             | –             |
| >1                                                                                                                            | >3                                     | >0.25                                                                      | >3                                     | >1                                                                                                                            | >3                                     | >3                                                                                                                            | >5            |
| –                                                                                                                             | >3                                     | –                                                                          | –                                      | –                                                                                                                             | –                                      | –                                                                                                                             | –             |
| 195                                                                                                                           |                                        | 2P, 4P: 195 V   3P: 340 V                                                  |                                        | 195                                                                                                                           |                                        | 195                                                                                                                           |               |
| 100                                                                                                                           |                                        | 2P, 4P: 195 V   3P: 340 V                                                  |                                        | 100                                                                                                                           |                                        | 100                                                                                                                           |               |
| 0.75 ... 16                                                                                                                   |                                        | 1 ... 35                                                                   |                                        | 25 ... 50                                                                                                                     |                                        | 20 ... 50                                                                                                                     |               |
| 0.75 ... 10                                                                                                                   |                                        | 1 ... 35                                                                   |                                        | 25 ... 35                                                                                                                     |                                        | 25 ... 35                                                                                                                     |               |
| 0.75 ... 16                                                                                                                   |                                        | –                                                                          |                                        | –                                                                                                                             |                                        | –                                                                                                                             |               |
| 0.75 ... 4                                                                                                                    |                                        | –                                                                          |                                        | –                                                                                                                             |                                        | –                                                                                                                             |               |
| 0.75 ... 2.5                                                                                                                  |                                        | –                                                                          |                                        | –                                                                                                                             |                                        | –                                                                                                                             |               |
| 0.75 ... 1.5                                                                                                                  |                                        | –                                                                          |                                        | –                                                                                                                             |                                        | –                                                                                                                             |               |
| 0.75 ... 4                                                                                                                    |                                        | –                                                                          |                                        | –                                                                                                                             |                                        | –                                                                                                                             |               |
| 1.2 ... 2.0                                                                                                                   |                                        | 2.0                                                                        |                                        | 3.0 ... 3.5                                                                                                                   |                                        | 3.0 ... 3.5                                                                                                                   |               |
| 1P+N                                                                                                                          |                                        | 2P   3P   4P                                                               |                                        | 2P   4P                                                                                                                       |                                        | 4P                                                                                                                            |               |
| 230                                                                                                                           |                                        | 230 V   400 V                                                              |                                        | 230   400                                                                                                                     |                                        | 400   430                                                                                                                     |               |
| 50   50/60                                                                                                                    |                                        | 50   50/60                                                                 |                                        | 50   50/60                                                                                                                    |                                        | 50/60                                                                                                                         |               |
| IEC/EN 61009-1 (VDE 0664-20),<br>IEC/EN 61009-2-1 (VDE 0664-21),<br>IEC/EN 61543 (VDE 0664-30),<br>IEC/EN 62423 (VDE 0664-40) |                                        | IEC/EN 61009-1 (VDE 0664-20),<br>IEC/EN 61009-2-1 (VDE 0664-21)            |                                        | IEC/EN 61009-1 (VDE 0664-20),<br>IEC/EN 61009-2-1 (VDE 0664-21),<br>IEC/EN 61543 (VDE 0664-30),<br>IEC/EN 62423 (VDE 0664-40) |                                        | IEC/EN 61009-1 (VDE 0664-20),<br>IEC/EN 61009-2-1 (VDE 0664-21),<br>IEC/EN 61543 (VDE 0664-30),<br>IEC/EN 62423 (VDE 0664-40) |               |
| 30, 300                                                                                                                       |                                        | 30, 300                                                                    |                                        | 30, 300, 1000                                                                                                                 |                                        | 30, 300                                                                                                                       |               |
| 2 ... 16                                                                                                                      |                                        | 6 ... 32                                                                   |                                        | 125                                                                                                                           |                                        | 100, 125                                                                                                                      |               |
| 4.5   6                                                                                                                       |                                        | 6   10                                                                     |                                        | 10                                                                                                                            |                                        | 10                                                                                                                            |               |
| N right                                                                                                                       |                                        | –                                                                          |                                        | N right   N left                                                                                                              |                                        | N right   N left                                                                                                              |               |
| >10 000                                                                                                                       |                                        | >10000                                                                     |                                        | >10000                                                                                                                        |                                        | >10000                                                                                                                        |               |
| Half-yearly <sup>1)</sup>                                                                                                     |                                        | Monthly                                                                    |                                        | Half-yearly <sup>1)</sup>                                                                                                     |                                        | Half-yearly <sup>1)</sup>                                                                                                     |               |
| IP20, if the distribution board is<br>installed, with connected conductors                                                    |                                        | IP20, if the distribution board is<br>installed, with connected conductors |                                        | IP20, if the distribution board is<br>installed, with connected conductors                                                    |                                        | IP20, if the distribution board is<br>installed, with connected conductors                                                    |               |
| Finger and back-of-hand safe                                                                                                  |                                        | Finger and back-of-hand safe                                               |                                        | Finger and back-of-hand safe                                                                                                  |                                        | Finger and back-of-hand safe                                                                                                  |               |
| –40 ... +75 °C                                                                                                                |                                        | –40 ... +70 °C                                                             |                                        | –40 ... +75 °C                                                                                                                |                                        | –40 ... +75 °C                                                                                                                |               |
| –25 ... +45, marked with                                                                                                      |                                        | –25 ... +40, marked with                                                   |                                        | –25 ... +45, marked with                                                                                                      |                                        | –25 ... +45, marked with                                                                                                      |               |
| 28 cycles (55 °C; 95% rel. humidity)                                                                                          |                                        | 28 cycles (55 °C; 95% rel. humidity)                                       |                                        | 28 cycles (55 °C; 95% rel. humidity)                                                                                          |                                        | 28 cycles (55 °C; 95% rel. humidity)                                                                                          |               |
| ■                                                                                                                             |                                        | –                                                                          |                                        | ■                                                                                                                             |                                        | ■                                                                                                                             |               |
| Top   bottom                                                                                                                  |                                        | Top   bottom                                                               |                                        | Top   bottom                                                                                                                  |                                        | Top   bottom                                                                                                                  |               |
| 3                                                                                                                             |                                        | 3   1                                                                      |                                        | 3                                                                                                                             |                                        | 3                                                                                                                             |               |
| III   2                                                                                                                       |                                        | III   3                                                                    |                                        | III   2                                                                                                                       |                                        | III   2                                                                                                                       |               |
| See page 4/50                                                                                                                 |                                        | See page 4/44                                                              |                                        | See page 4/42                                                                                                                 |                                        | See page 4/49                                                                                                                 |               |

# Arc fault detection devices (AFDDs)



5SM6

5SV6

5SV6...KP..

| Poles                                      |                                    |    | 5SM6                                 | 5SV6                                 | 5SV6...KP..                               |
|--------------------------------------------|------------------------------------|----|--------------------------------------|--------------------------------------|-------------------------------------------|
| Number of poles                            |                                    |    | 2P                                   | 1P+N                                 | 1P+N                                      |
| Rated voltage $U_n$                        | V AC                               |    | 230                                  | 230                                  | 230                                       |
| Operating frequency                        | Hz                                 |    | 50                                   | 50                                   | 50                                        |
| Terminal conductor cross-sections          |                                    |    |                                      |                                      |                                           |
| Solid and stranded                         | mm <sup>2</sup>                    |    | 0.75 ... 16                          | 0.75 ... 16                          | 0.75 ... 16 (top)<br>0.75 ... 35 (bottom) |
| Finely stranded with end sleeve            | mm <sup>2</sup>                    |    | 0.75 ... 10                          | 0.75 ... 10                          | 0.75 ... 10 (top)<br>0.75 ... 25 (bottom) |
| Terminal tightening torque                 | Nm                                 |    | 2.0 ... 2.5                          | 1.2 ... 2.0                          | 1.2 ... 2.0 (top)<br>2.5 ... 3.5 (bottom) |
| Standards                                  |                                    |    |                                      |                                      |                                           |
|                                            |                                    |    | IEC/EN 62606                         | IEC/EN 62606                         | IEC/EN 62606                              |
| Rated current $I_n$                        | A                                  |    | Up to 16/40 A                        | 6 ... 40                             | 6 ... 40                                  |
| Service life                               | Average number of operating cycles |    | >10000                               | >10000                               | >10000                                    |
| Mounting position                          |                                    |    | Any                                  | Any                                  | Any                                       |
| Degree of protection                       | Acc. to EN 60529 (VDE 0470-1)      |    | IP20, with connected conductors      | IP20, with connected conductors      | IP20, with connected conductors           |
| Touch protection                           | Acc. to EN 50274 (VDE 0660-514)    |    | Finger and back-of-hand safe         | Finger and back-of-hand safe         | Finger and back-of-hand safe              |
| Temperature                                | Storage temperature                | °C | -40 ... +75 °C                       | -40 ... +75 °C                       | -40 ... +75 °C                            |
|                                            | Ambient temperature                | °C | -25 ... +45, marked with             | -25 ... +45, marked with             | -25 ... +45, marked with                  |
| Resistance to climate                      | Acc. to IEC 60068-2-30             |    | 28 cycles (55 °C; 95% rel. humidity) | 28 cycles (55 °C; 95% rel. humidity) | 28 cycles (55 °C; 95% rel. humidity)      |
| CFC and silicone-free                      |                                    |    | ■                                    | ■                                    | ■                                         |
| Mains connection                           |                                    |    | Bottom                               | Top   bottom                         | Bottom                                    |
| Overvoltage category   Degree of pollution |                                    |    | III   2                              | III   2                              | III   2                                   |
| Tripping in the event of overvoltage       | V                                  |    | >275                                 | >285                                 | >285                                      |
| Additional functions                       |                                    |    |                                      |                                      |                                           |
| Communication and measuring function       |                                    |    | –                                    | ■                                    | –                                         |
| Further information                        |                                    |    |                                      |                                      |                                           |
|                                            |                                    |    | See page 4/52                        | See page 4/53 and page 4/54          | See page 4/53                             |



# 5SV RCCBs

Type A, 1P+N (2 MW)

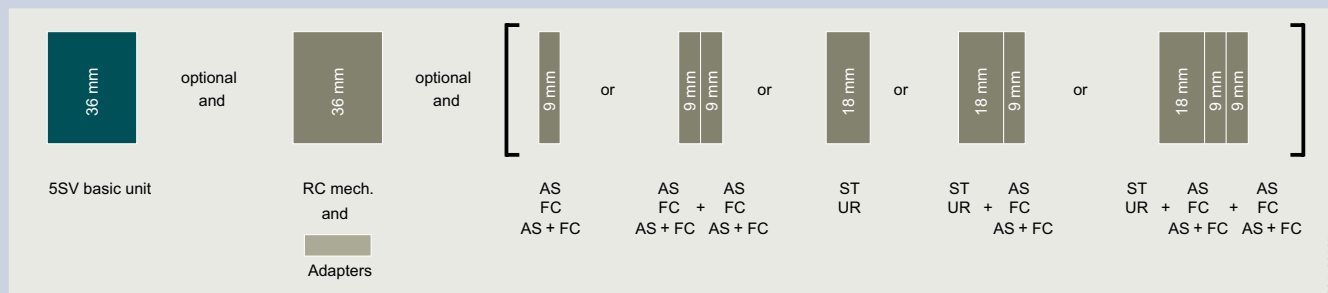
| N connection | Instantaneous                                                                     |                                                                                   |                                                                                     | Instantaneous<br>(only available in Belgium) <sup>2)</sup>                          |
|--------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              | 24 ... 125 V AC                                                                   | 230 V AC                                                                          | 230 V AC                                                                            | 230 V AC                                                                            |
|              | Right                                                                             | Right                                                                             | Left                                                                                | Right                                                                               |
|              |  |  |  |  |

| $I_{\Delta n}$ | $I_n$ | Thermal overload protection <sup>1)</sup> | Bulk packaging (36 units) |               |               |             |             |
|----------------|-------|-------------------------------------------|---------------------------|---------------|---------------|-------------|-------------|
| Type A         |       |                                           |                           |               |               |             |             |
| 10 mA          | 16 A  | –                                         | –                         | –             | 5SV3111-6     | 5SV3111-6KL | –           |
|                | 25 A  | –                                         | –                         | –             | 5SV3112-6     | –           | –           |
| 30 mA          | 16 A  | –                                         | –                         | 5SV3311-6KK13 | 5SV3311-6     | 5SV3311-6KL | –           |
|                |       | –                                         | ■                         | –             | 5SV3311-6GV01 | –           | –           |
|                | 25 A  | –                                         | –                         | 5SV3312-6KK13 | 5SV3312-6     | 5SV3312-6KL | 5SV3312-6BA |
|                |       | –                                         | ■                         | –             | 5SV3312-6GV01 | –           | –           |
|                | 40 A  | –                                         | –                         | 5SV3314-6KK13 | 5SV3314-6     | 5SV3314-6KL | 5SV3314-6BA |
|                |       | –                                         | ■                         | –             | 5SV3314-6GV01 | –           | –           |
|                |       | –                                         | ■                         | –             | 5SV3314-6LA   | –           | –           |
|                | 63 A  | –                                         | –                         | 5SV3316-6KK13 | 5SV3316-6     | 5SV3316-6KL | 5SV3316-6BA |
| 100 mA         | 80 A  | –                                         | –                         | –             | 5SV3317-6     | 5SV3317-6KL | –           |
|                | 25 A  | –                                         | –                         | –             | 5SV3412-6     | 5SV3412-6KL | 5SV3612-6BA |
|                | 40 A  | –                                         | –                         | –             | 5SV3414-6     | 5SV3414-6KL | 5SV3614-6BA |
|                | 63 A  | –                                         | –                         | –             | 5SV3416-6     | 5SV3416-6KL | 5SV3616-6BA |
|                | 80 A  | –                                         | –                         | –             | 5SV3417-6     | 5SV3417-6KL | –           |
| 300 mA         | 25 A  | –                                         | –                         | –             | 5SV3612-6     | 5SV3612-6KL | –           |
|                | 40 A  | –                                         | –                         | –             | 5SV3614-6     | 5SV3614-6KL | –           |
|                | 63 A  | –                                         | –                         | –             | 5SV3616-6     | 5SV3616-6KL | –           |
|                | 80 A  | –                                         | –                         | –             | 5SV3617-6     | 5SV3617-6KL | –           |

<sup>1)</sup> Thermal overload protection according to OVE E 8101 possible up to rated current of the RCCB (40 A, 63 A).

<sup>2)</sup> These products cannot be used in France according to NF C 15-100. Product complies with the specifications of the Belgian market only. (Simultaneous tripping of the 3 poles and the N conductor.) Available for the export market only.

## Mounting concept



|          |                                           |                               |
|----------|-------------------------------------------|-------------------------------|
| AS       | Auxiliary switch                          | <a href="#">See page 4/58</a> |
| FC       | Fault signal contact                      | <a href="#">See page 4/60</a> |
| AS+FC    | Auxiliary switch and fault signal contact | <a href="#">See page 4/61</a> |
| ST       | Shunt trips                               | <a href="#">See page 4/64</a> |
| UR       | Undervoltage release                      | <a href="#">See page 4/65</a> |
| RC mech. | Remote control mechanism                  | <a href="#">See page 4/66</a> |

1201\_20467

| SIGRES, instantaneous                                                            | Short-time delayed [G]                                                            | Super resistant [K]                                                               | Selective [S]                                                                      |                                                                                     |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 230 V AC                                                                         | 230 V AC                                                                          | 230 V AC                                                                          | 230 V AC                                                                           |                                                                                     |
| Right                                                                            | Right                                                                             | Right                                                                             | Right                                                                              | Left                                                                                |
|  |  |  |  |  |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| 5SV3311-6KK12                                                                    | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| 5SV3312-6KK12                                                                    | –                                                                                 | 5SV3312-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| 5SV3314-6KK12                                                                    | –                                                                                 | 5SV3314-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | 5SV3314-6LA01                                                                     | –                                                                                 | –                                                                                  | –                                                                                   |
| 5SV3316-6KK12                                                                    | –                                                                                 | 5SV3316-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3317-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | 5SV3416-8                                                                          | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3612-6KK01                                                                     | 5SV3612-8                                                                          | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3614-6KK01                                                                     | 5SV3614-8                                                                          | 5SV3614-8KL                                                                         |
| –                                                                                | –                                                                                 | 5SV3616-6KK01                                                                     | 5SV3616-8                                                                          | 5SV3616-8KL                                                                         |
| –                                                                                | –                                                                                 | 5SV3617-6KK01                                                                     | 5SV3617-8                                                                          | –                                                                                   |

## Accessories

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

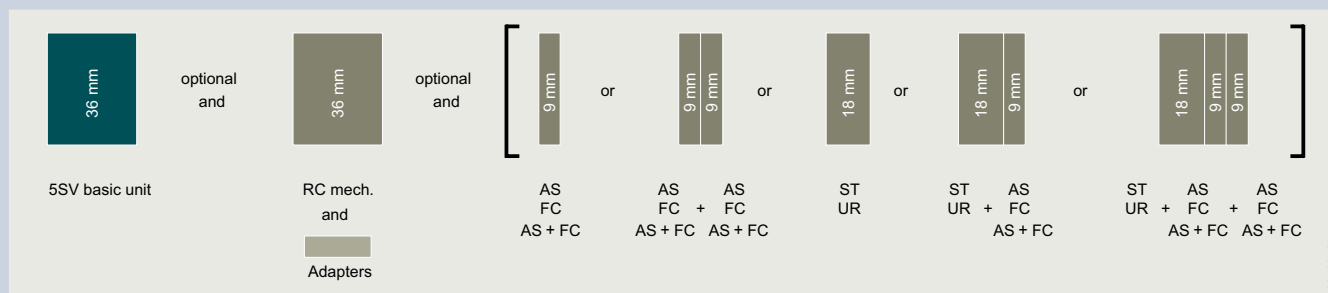
| Shunt trips (ST)                                  |                                   | Article No.   |
|---------------------------------------------------|-----------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC                |                                   | 5ST3030       |
| 24 ... 48 V AC/DC                                 |                                   | 5ST3031       |
| 12 V DC                                           |                                   | 5ST3031-0XX01 |
| Undervoltage releases (UR)                        |                                   | Article No.   |
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040       |
|                                                   | 110 V DC                          | 5ST3041       |
|                                                   | 24 V DC                           | 5ST3042       |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043       |
|                                                   | 110 V DC                          | 5ST3044       |
|                                                   | 24 V DC                           | 5ST3045       |
| Remote control 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       |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No.   |
| 2 MW                                              |                                   | 5ST3820-6     |

# 5SV RCCBs

Type F, 1P+N (2 MW)

|                |       | Super resistant [K]<br>230 V AC                                                   | Selective [S]<br>230 V AC                                                           |
|----------------|-------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| N connection   |       | Right                                                                             | Right                                                                               |
|                |       |  |  |
| $I_{\Delta n}$ | $I_n$ |                                                                                   |                                                                                     |
| Type F         |       |                                                                                   |                                                                                     |
| 30 mA          | 25 A  | 5SV3312-3                                                                         | –                                                                                   |
|                | 40 A  | 5SV3314-3                                                                         | –                                                                                   |
|                | 63 A  | 5SV3316-3                                                                         | –                                                                                   |
|                | 80 A  | 5SV3317-3                                                                         | –                                                                                   |
| 300 mA         | 25 A  | 5SV3612-3                                                                         | –                                                                                   |
|                | 40 A  | 5SV3614-3                                                                         | 5SV3614-7                                                                           |
|                | 63 A  | 5SV3616-3                                                                         | –                                                                                   |
|                | 80 A  | 5SV3617-3                                                                         | 5SV3617-7                                                                           |

## Mounting concept



|          |                                           |                               |
|----------|-------------------------------------------|-------------------------------|
| AS       | Auxiliary switch                          | <a href="#">See page 4/58</a> |
| FC       | Fault signal contact                      | <a href="#">See page 4/60</a> |
| AS+FC    | Auxiliary switch and fault signal contact | <a href="#">See page 4/61</a> |
| ST       | Shunt trips                               | <a href="#">See page 4/64</a> |
| UR       | Undervoltage release                      | <a href="#">See page 4/65</a> |
| RC mech. | Remote control mechanism                  | <a href="#">See page 4/66</a> |

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## Accessories

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

| Shunt trips (ST)                                  |                                   | Article No.   |
|---------------------------------------------------|-----------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC                |                                   | 5ST3030       |
| 24 ... 48 V AC/DC                                 |                                   | 5ST3031       |
| 12 V DC                                           |                                   | 5ST3031-0XX01 |
| Undervoltage releases (UR)                        |                                   | Article No.   |
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040       |
|                                                   | 110 V DC                          | 5ST3041       |
|                                                   | 24 V DC                           | 5ST3042       |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043       |
|                                                   | 110 V DC                          | 5ST3044       |
|                                                   | 24 V DC                           | 5ST3045       |
| Remote control 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       |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No.   |
| 2 MW                                              |                                   | 5ST3820-6     |

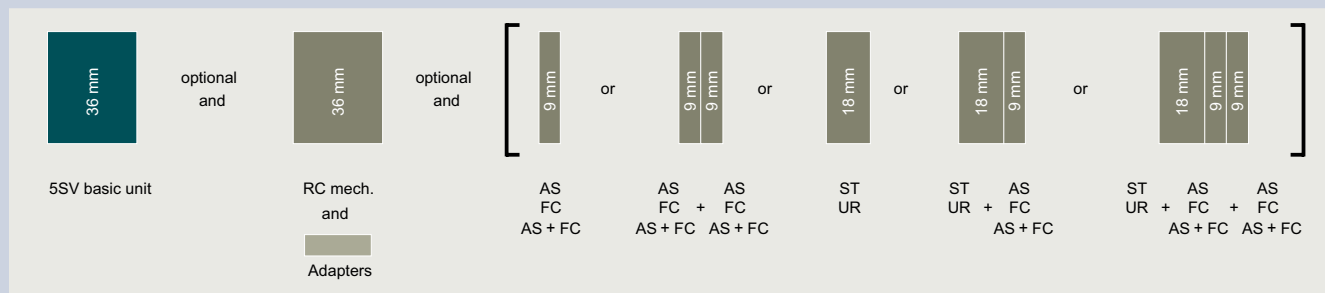
# 5SV RCCBs

Type AC, 1P+N (2 MW)



| $I_{\Delta n}$ | $I_n$ | Bulk packaging (36 units) |               |               |               |
|----------------|-------|---------------------------|---------------|---------------|---------------|
| Type AC        |       |                           |               |               |               |
| 10 mA          | 16 A  | –                         | 5SV4111-0     | 5SV4111-0KL   | –             |
|                | 25 A  | –                         | 5SV4112-0     | –             | –             |
| 30 mA          | 16 A  | –                         | 5SV4311-0     | 5SV4311-0KL   | 5SV4311-0KK13 |
|                | 25 A  | –                         | 5SV4312-0     | 5SV4312-0KL   | 5SV4312-0KK13 |
|                |       | ■                         | 5SV4312-0GV01 | –             | –             |
|                | 40 A  | –                         | 5SV4314-0     | 5SV4314-0KL   | 5SV4314-0KK13 |
|                |       | ■                         | 5SV4314-0GV01 | 5SV4314-0GV02 | –             |
|                | 63 A  | –                         | 5SV4316-0     | 5SV4316-0KL   | 5SV4316-0KK13 |
|                | 80 A  | –                         | 5SV4317-0     | 5SV4317-0KL   | –             |
| 100 mA         | 25 A  | –                         | 5SV4412-0     | –             | –             |
|                | 40 A  | –                         | 5SV4414-0     | 5SV4414-0KL   | –             |
|                | 63 A  | –                         | 5SV4416-0     | 5SV4416-0KL   | –             |
|                | 80 A  | –                         | 5SV4417-0     | –             | –             |
| 300 mA         | 25 A  | –                         | 5SV4612-0     | 5SV4612-0KL   | –             |
|                | 40 A  | –                         | 5SV4614-0     | 5SV4614-0KL   | –             |
|                | 63 A  | –                         | 5SV4616-0     | 5SV4616-0KL   | –             |
|                | 80 A  | –                         | 5SV4617-0     | 5SV4617-0KL   | –             |

## Mounting concept



|          |                                           |                               |
|----------|-------------------------------------------|-------------------------------|
| AS       | Auxiliary switch                          | <a href="#">See page 4/58</a> |
| FC       | Fault signal contact                      | <a href="#">See page 4/60</a> |
| AS+FC    | Auxiliary switch and fault signal contact | <a href="#">See page 4/61</a> |
| ST       | Shunt trips                               | <a href="#">See page 4/64</a> |
| UR       | Undervoltage release                      | <a href="#">See page 4/65</a> |
| RC mech. | Remote control mechanism                  | <a href="#">See page 4/66</a> |

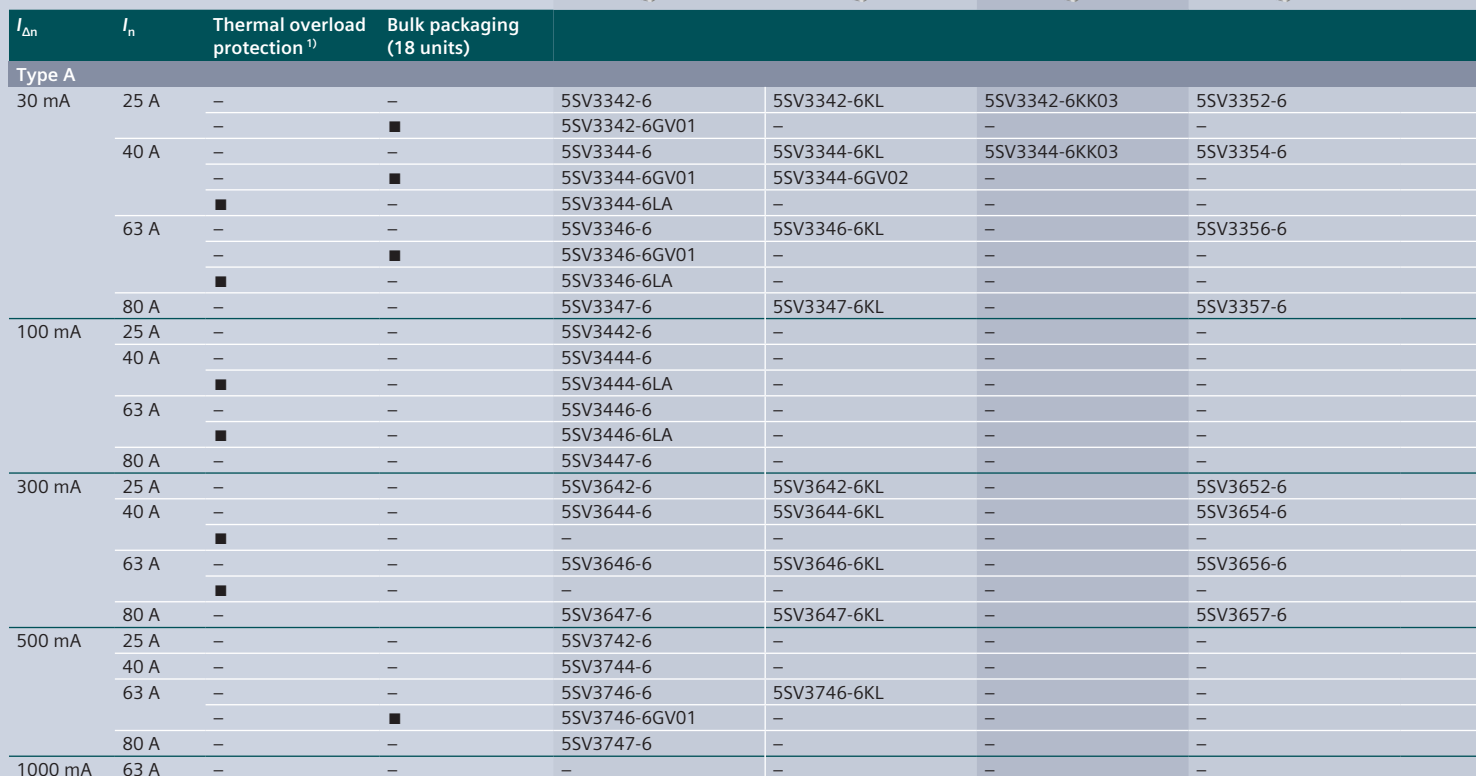
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## Accessories

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

| Shunt trips (ST)                                  |                                   | Article No.   |
|---------------------------------------------------|-----------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC                |                                   | 5ST3030       |
| 24 ... 48 V AC/DC                                 |                                   | 5ST3031       |
| 12 V DC                                           |                                   | 5ST3031-0XX01 |
| Undervoltage releases (UR)                        |                                   | Article No.   |
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040       |
|                                                   | 110 V DC                          | 5ST3041       |
|                                                   | 24 V DC                           | 5ST3042       |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043       |
|                                                   | 110 V DC                          | 5ST3044       |
|                                                   | 24 V DC                           | 5ST3045       |
| Remote control 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       |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No.   |
| 2 MW                                              |                                   | 5ST3820-6     |

### Type A, 3P+N (4 MW)



<sup>2)</sup> These products cannot be used in France according to NF C 15-100. Product complies with the specifications of the Belgian market only. (Simultaneous tripping of the 3 poles and the N conductor.) Available for the export market only.

5SV basic unit

optional and

RC mech. and

Adapters

72 mm

36 mm

9 mm

9 mm

9 mm

18 mm

18 mm

9 mm

9 mm

18 mm

9 mm

9 mm

AS FC AS + FC

AS FC + AS FC

AS FC

ST UR

ST UR + AS FC AS + FC

ST UR + AS FC AS + FC

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| Instantaneous<br>(only available in Belgium) <sup>2)</sup><br>400 V AC           | SIGRES,<br>instantaneous<br>400 V AC                                              | Short-time delayed [G]<br>400 V AC                                                | Super resistant [K]<br>400 V AC                                                   | Selective [S]<br>400 V AC                                                          | SIGRES, selective<br>[S]<br>400 V AC                                                |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Right                                                                            | Right                                                                             | Right                                                                             | Right                                                                             | Right                                                                              | Left                                                                                |
|  |  |  |  |  |  |
| 5SV3342-6BA                                                                      | 5SV3342-6KK12                                                                     | –                                                                                 | 5SV3342-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| 5SV3344-6BA                                                                      | 5SV3344-6KK12                                                                     | 5SV3344-6LB01                                                                     | 5SV3344-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3344-6LA01                                                                     | –                                                                                 | –                                                                                  | –                                                                                   |
| 5SV3346-6BA                                                                      | 5SV3346-6KK12                                                                     | 5SV3346-6LB01                                                                     | 5SV3346-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3346-6LA01                                                                     | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | 5SV3347-6KK12                                                                     | 5SV3347-6LB01                                                                     | 5SV3347-6KK01                                                                     | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3444-6LB01                                                                     | –                                                                                 | 5SV3444-8                                                                          | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3444-6LA01                                                                     | –                                                                                 | 5SV3444-8LA                                                                        | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3446-6LB01                                                                     | –                                                                                 | 5SV3446-8                                                                          | –                                                                                   |
| –                                                                                | –                                                                                 | 5SV3446-6LA01                                                                     | –                                                                                 | 5SV3446-8LA                                                                        | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| 5SV3642-6BA                                                                      | 5SV3642-6KK12                                                                     | –                                                                                 | 5SV3642-6KK01                                                                     | 5SV3642-8                                                                          | –                                                                                   |
| 5SV3644-6BA                                                                      | 5SV3644-6KK12                                                                     | –                                                                                 | 5SV3644-6KK01                                                                     | 5SV3644-8                                                                          | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | 5SV3644-8LA                                                                        | –                                                                                   |
| 5SV3646-6BA                                                                      | 5SV3646-6KK12                                                                     | –                                                                                 | 5SV3646-6KK01                                                                     | 5SV3646-8                                                                          | 5SV3646-8KL                                                                         |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | 5SV3646-8LA                                                                        | –                                                                                   |
| –                                                                                | 5SV3647-6KK12                                                                     | –                                                                                 | 5SV3647-6KK01                                                                     | 5SV3647-8                                                                          | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | –                                                                                  | –                                                                                   |
| –                                                                                | –                                                                                 | –                                                                                 | –                                                                                 | 5SV3846-8                                                                          | –                                                                                   |

## Accessories

| Auxiliary switches (AS)                              |                                   |  | Article No.   |
|------------------------------------------------------|-----------------------------------|--|---------------|
| 1 NO + 1 NC                                          | Standard                          |  | 5ST3010       |
|                                                      | For low power                     |  | 5ST3013       |
|                                                      | For low power (with diode)        |  | 5ST3013-0XX01 |
| 2 NO                                                 | Standard                          |  | 5ST3011       |
|                                                      | For low power                     |  | 5ST3014       |
| 2 NC                                                 | Standard                          |  | 5ST3012       |
|                                                      | For low power                     |  | 5ST3015       |
| 1 CO                                                 | Standard                          |  | 5ST3016       |
| Fault signal contacts (FC)                           |                                   |  | Article No.   |
| 1 NO + 1 NC                                          |                                   |  | 5ST3020       |
| 2 NO                                                 |                                   |  | 5ST3021       |
| 2 NC                                                 |                                   |  | 5ST3022       |
| Auxiliary switches and fault signal contacts (AS+FC) |                                   |  | Article No.   |
| 1 CO (AS) + 1 CO (FC)                                |                                   |  | 5ST3062       |
| 5ST3 COM (AS+FC)                                     |                                   |  | 5ST3062-0MC   |
| Shunt trips (ST)                                     |                                   |  | Article No.   |
| 110 ... 415 V AC, 110 ... 220 V DC                   |                                   |  | 5ST3030       |
| 24 ... 48 V AC/DC                                    |                                   |  | 5ST3031       |
| 12 V DC                                              |                                   |  | 5ST3031-0XX01 |
| Undervoltage releases (UR)                           |                                   |  | Article No.   |
| With integrated auxiliary switch                     | 230 V AC                          |  | 5ST3040       |
|                                                      | 110 V DC                          |  | 5ST3041       |
|                                                      | 24 V DC                           |  | 5ST3042       |
| Without integrated auxiliary switch                  | 230 V AC                          |  | 5ST3043       |
|                                                      | 110 V DC                          |  | 5ST3044       |
|                                                      | 24 V DC                           |  | 5ST3045       |
| Remote control 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       |
|                                                      | 170 ... 277 V AC, 77 ... 286 V DC |  | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.)    |                                   |  | Article No.   |
| 4 MW                                                 |                                   |  | 5ST3820-7     |

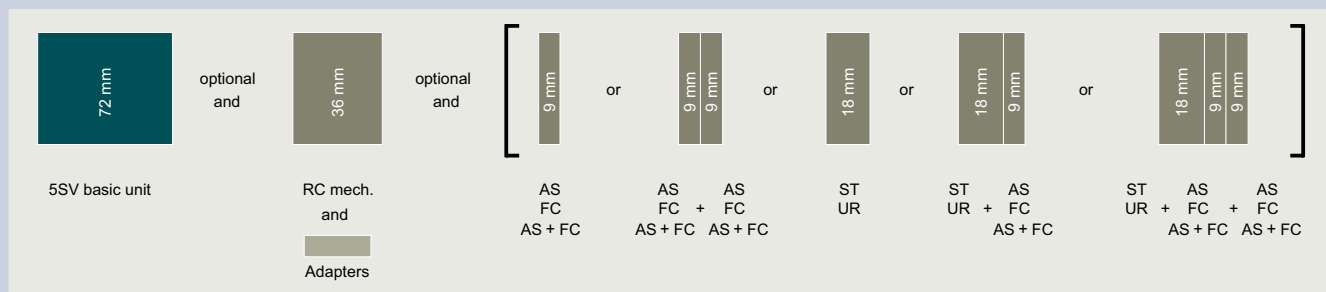
# 5SV RCCBs

Type F, 3P+N (4 MW)

| N connection | Super resistant [K]<br>400 V AC                                                   | Selective [S]<br>400 V AC                                                           |
|--------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              | Right                                                                             | Right                                                                               |
|              |  |  |

| $I_{\Delta n}$ | $I_n$ |           |           |
|----------------|-------|-----------|-----------|
| Type F         |       |           |           |
| 30 mA          | 25 A  | 5SV3342-3 | —         |
|                | 40 A  | 5SV3344-3 | —         |
|                | 63 A  | 5SV3346-3 | —         |
|                | 80 A  | 5SV3347-3 | —         |
| 300 mA         | 25 A  | 5SV3642-3 | —         |
|                | 40 A  | 5SV3644-3 | 5SV3644-7 |
|                | 63 A  | 5SV3646-3 | —         |
|                | 80 A  | 5SV3647-3 | 5SV3647-7 |

## Mounting concept



|          |                                           |                               |
|----------|-------------------------------------------|-------------------------------|
| AS       | Auxiliary switch                          | <a href="#">See page 4/58</a> |
| FC       | Fault signal contact                      | <a href="#">See page 4/60</a> |
| AS+FC    | Auxiliary switch and fault signal contact | <a href="#">See page 4/61</a> |
| ST       | Shunt trips                               | <a href="#">See page 4/64</a> |
| UR       | Undervoltage release                      | <a href="#">See page 4/65</a> |
| RC mech. | Remote control mechanism                  | <a href="#">See page 4/66</a> |

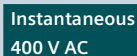
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## Accessories

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

| Shunt trips (ST)                                  |                                   | Article No.   |
|---------------------------------------------------|-----------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC                |                                   | 5ST3030       |
| 24 ... 48 V AC/DC                                 |                                   | 5ST3031       |
| 12 V DC                                           |                                   | 5ST3031-0XX01 |
| Undervoltage releases (UR)                        |                                   | Article No.   |
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040       |
|                                                   | 110 V DC                          | 5ST3041       |
|                                                   | 24 V DC                           | 5ST3042       |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043       |
|                                                   | 110 V DC                          | 5ST3044       |
|                                                   | 24 V DC                           | 5ST3045       |
| Remote control 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       |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No.   |
| 4 MW                                              |                                   | 5ST3820-7     |

Type AC, 3P+N (4 MW)

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## Accessories

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

| Shunt trips (ST)                                  |                                   | Article No.   |
|---------------------------------------------------|-----------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC                |                                   | 5ST3030       |
| 24 ... 48 V AC/DC                                 |                                   | 5ST3031       |
| 12 V DC                                           |                                   | 5ST3031-0XX01 |
| Undervoltage releases (UR)                        |                                   | Article No.   |
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040       |
|                                                   | 110 V DC                          | 5ST3041       |
|                                                   | 24 V DC                           | 5ST3042       |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043       |
|                                                   | 110 V DC                          | 5ST3044       |
|                                                   | 24 V DC                           | 5ST3045       |
| Remote control 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       |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No.   |
| 4 MW                                              |                                   | 5ST3820-7     |

# 5SV3 RCCBs (SIQUENCE)

Type B, 1P+N (4 MW)

N connection

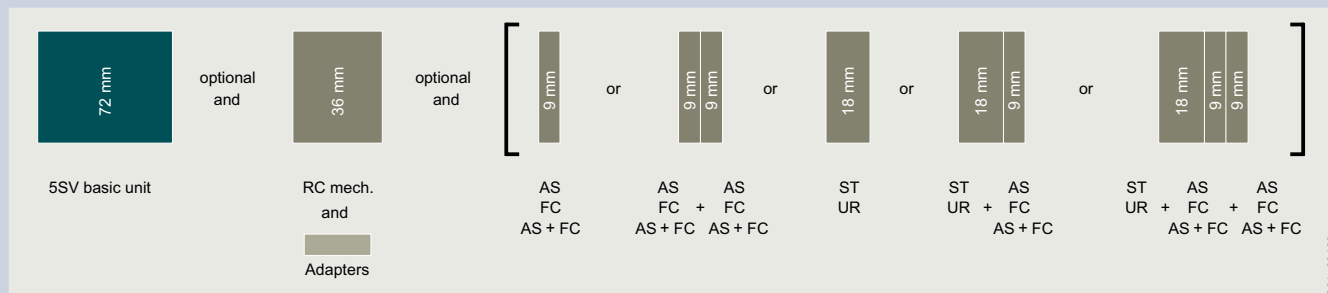
SIGRES, super resistant [K]  
230 V AC

Right



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

## Mounting concept



|          |                                           |                               |
|----------|-------------------------------------------|-------------------------------|
| AS       | Auxiliary switch                          | <a href="#">See page 4/58</a> |
| FC       | Fault signal contact                      | <a href="#">See page 4/60</a> |
| AS+FC    | Auxiliary switch and fault signal contact | <a href="#">See page 4/61</a> |
| ST       | Shunt trips                               | <a href="#">See page 4/64</a> |
| UR       | Undervoltage release                      | <a href="#">See page 4/65</a> |
| RC mech. | Remote control mechanism                  | <a href="#">See page 4/66</a> |

## Accessories

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

| Shunt trips (ST)                                  |                                   | Article No.   |
|---------------------------------------------------|-----------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC                |                                   | 5ST3030       |
| 24 ... 48 V AC/DC                                 |                                   | 5ST3031       |
| 12 V DC                                           |                                   | 5ST3031-0XX01 |
| Undervoltage releases (UR)                        |                                   | Article No.   |
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040       |
|                                                   | 110 V DC                          | 5ST3041       |
|                                                   | 24 V DC                           | 5ST3042       |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043       |
|                                                   | 110 V DC                          | 5ST3044       |
|                                                   | 24 V DC                           | 5ST3045       |
| Remote control 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       |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No.   |
| 4 MW                                              |                                   | 5ST3820-7     |

# 5SV3 RCCBs (SIQUENCE)

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

N connection

SIGRES, super resistant [K]  
230 ... 400 V AC

Right



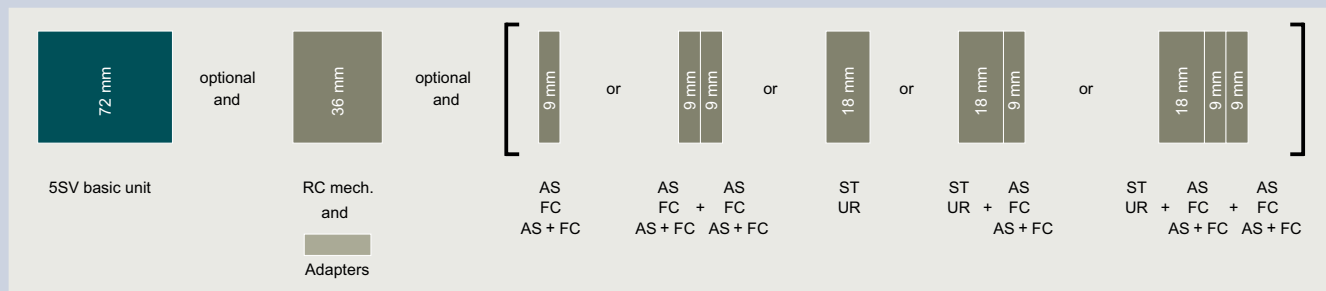
SIGRES, selective [S]  
230 ... 400 V AC

Right



| $I_{\Delta n}$ | $I_n$   | Bulk packaging (18 units) |               |               |
|----------------|---------|---------------------------|---------------|---------------|
| Type B         |         |                           |               |               |
| 30 mA          | 25 A    | –                         | 5SV3342-4     | –             |
|                |         | ■                         | 5SV3342-4GV01 | –             |
|                | 40 A    | –                         | 5SV3344-4     | –             |
|                |         | ■                         | 5SV3344-4GV01 | –             |
|                | 63 A    | –                         | 5SV3346-4     | –             |
|                |         | ■                         | 5SV3346-4GV01 | –             |
| 80 A           | –       | 5SV3347-4                 | –             |               |
| 300 mA         | 25 A    | –                         | 5SV3642-4     | –             |
|                |         | ■                         | 5SV3642-4GV01 | –             |
|                | 40 A    | –                         | 5SV3644-4     | –             |
|                |         | ■                         | 5SV3644-4GV01 | –             |
|                | 63 A    | –                         | 5SV3646-4     | 5SV3646-5     |
|                |         | ■                         | 5SV3646-4GV01 | –             |
| 80 A           | –       | 5SV3647-4                 | 5SV3647-5     |               |
| 500 mA         | 25 A    | –                         | 5SV3742-4     | –             |
|                | 40 A    | –                         | 5SV3744-4     | –             |
|                | 63 A    | –                         | 5SV3746-4     | 5SV3746-5     |
|                | 80 A    | –                         | 5SV3747-4     | 5SV3747-5     |
|                | Type B+ |                           |               |               |
| 30 mA          | 25 A    | –                         | 5SV3342-4KK14 | –             |
|                | 40 A    | –                         | 5SV3344-4KK14 | –             |
|                | 63 A    | –                         | 5SV3346-4KK14 | –             |
|                | 80 A    | –                         | 5SV3347-4KK14 | –             |
| 300 mA         | 25 A    | –                         | 5SV3642-4KK14 | –             |
|                | 40 A    | –                         | 5SV3644-4KK14 | –             |
|                | 63 A    | –                         | 5SV3646-4KK14 | 5SV3646-5KK14 |
|                | 80 A    | –                         | 5SV3647-4KK14 | 5SV3647-5KK14 |

## Mounting concept



|          |                                           |                               |
|----------|-------------------------------------------|-------------------------------|
| AS       | Auxiliary switch                          | <a href="#">See page 4/58</a> |
| FC       | Fault signal contact                      | <a href="#">See page 4/60</a> |
| AS+FC    | Auxiliary switch and fault signal contact | <a href="#">See page 4/61</a> |
| ST       | Shunt trips                               | <a href="#">See page 4/64</a> |
| UR       | Undervoltage release                      | <a href="#">See page 4/65</a> |
| RC mech. | Remote control mechanism                  | <a href="#">See page 4/66</a> |

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## Accessories

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

| Shunt trips (ST)                                  |                                   | Article No.   |
|---------------------------------------------------|-----------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC                |                                   | 5ST3030       |
| 24 ... 48 V AC/DC                                 |                                   | 5ST3031       |
| 12 V DC                                           |                                   | 5ST3031-0XX01 |
| Undervoltage releases (UR)                        |                                   | Article No.   |
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040       |
|                                                   | 110 V DC                          | 5ST3041       |
|                                                   | 24 V DC                           | 5ST3042       |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043       |
|                                                   | 110 V DC                          | 5ST3044       |
|                                                   | 24 V DC                           | 5ST3045       |
| Remote control 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       |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No.   |
| 4 MW                                              |                                   | 5ST3820-7     |

# 5SM3 RCCBs

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

N connection  
Instantaneous  
230 V AC  
Right



| $I_{\Delta n}$ | $I_n$ |             |
|----------------|-------|-------------|
| Type A         |       |             |
| 30 mA          | 100 A | 5SM3318-6KK |
|                | 125 A | 5SM3315-6KK |
| 100 mA         | 100 A | 5SM3418-6KK |
|                | 125 A | 5SM3415-6KK |
| 300 mA         | 100 A | 5SM3618-6KK |
|                | 125 A | 5SM3615-6KK |
| Type AC        |       |             |
| 30 mA          | 100 A | 5SM3318-0KK |
|                | 125 A | 5SM3315-0KK |
| 100 mA         | 100 A | 5SM3418-0KK |
|                | 125 A | 5SM3415-0KK |
| 300 mA         | 100 A | 5SM3618-0KK |
|                | 125 A | 5SM3615-0KK |

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

| N connection | Instantaneous<br>400 V AC                                                          | Selective [S]<br>400 V AC                                                           |
|--------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|              | Right                                                                              | Right                                                                               |
|              |  |  |

| $I_{\Delta n}$ | $I_n$ |           |           |
|----------------|-------|-----------|-----------|
| <b>Type A</b>  |       |           |           |
| 30 mA          | 100 A | 5SM3348-6 | —         |
|                | 125 A | 5SM3345-6 | —         |
| 100 mA         | 100 A | 5SM3448-6 | —         |
|                | 125 A | 5SM3445-6 | —         |
| 300 mA         | 100 A | 5SM3648-6 | 5SM3648-8 |
|                | 125 A | 5SM3645-6 | 5SM3645-8 |
| 500 mA         | 100 A | 5SM3748-6 | —         |
|                | 125 A | 5SM3745-6 | 5SM3745-8 |
| <b>Type AC</b> |       |           |           |
| 30 mA          | 100 A | 5SM3348-0 | —         |
|                | 125 A | 5SM3345-0 | —         |
| 100 mA         | 100 A | 5SM3448-0 | —         |
|                | 125 A | 5SM3445-0 | —         |
| 300 mA         | 100 A | 5SM3648-0 | 5SM3648-2 |
|                | 125 A | 5SM3645-0 | —         |
| 500 mA         | 100 A | 5SM3748-0 | —         |
|                | 125 A | 5SM3745-0 | —         |

4

## Accessories

| Auxiliary switches (AS) |          | Article No. |
|-------------------------|----------|-------------|
| 1 NO + 1 NC             | Standard | 5SW3330     |

# 5SM2 RC units

Type A, F and AC, 2-pole

For 5SY miniature circuit breakers <sup>1)</sup>  
230 V AC

Version  
Mounting width

Instantaneous

Super resistant [K]

Selective [S]

2 MW

2 MW

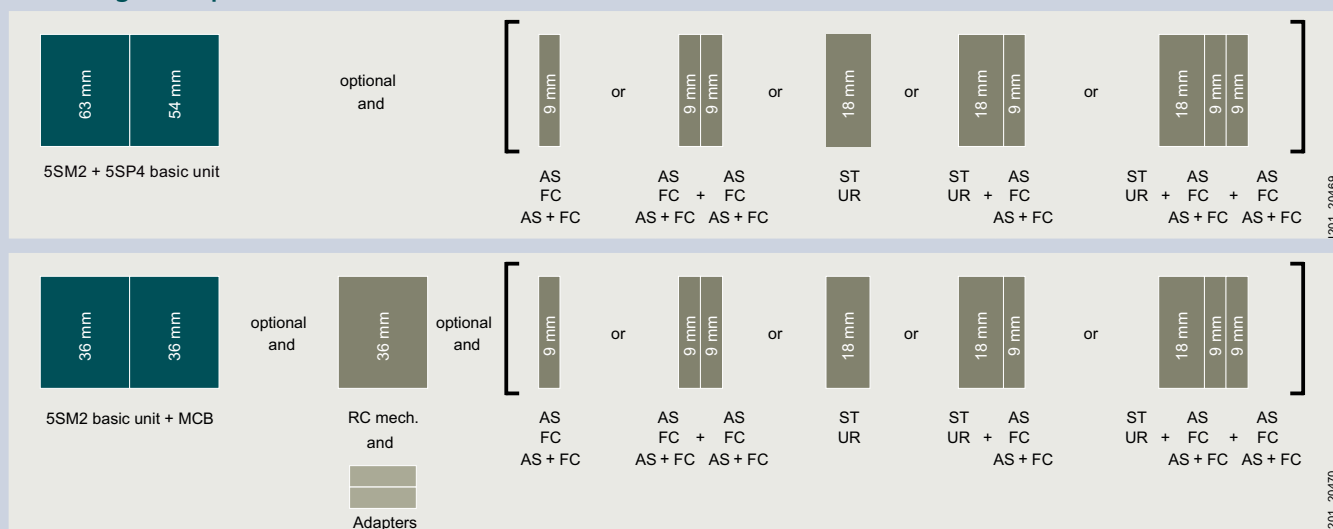
2 MW



| $I_{\Delta n}$ | $I_n$        |           |               |           |
|----------------|--------------|-----------|---------------|-----------|
| <b>Type A</b>  |              |           |               |           |
| 10 mA          | 0.3 ... 16 A | 5SM2121-6 | –             | –         |
| 30 mA          | 0.3 ... 40 A | 5SM2322-6 | 5SM2322-6KK01 | –         |
|                | 0.3 ... 63 A | 5SM2325-6 | 5SM2325-6KK01 | –         |
|                | 80 ... 100 A | –         | –             | –         |
| 100 mA         | 0.3 ... 63 A | 5SM2425-6 | –             | –         |
| 300 mA         | 0.3 ... 40 A | 5SM2622-6 | –             | 5SM2622-8 |
|                | 0.3 ... 63 A | 5SM2625-6 | –             | 5SM2625-8 |
|                | 80 ... 100 A | –         | –             | –         |
| 500 mA         | 0.3 ... 63 A | 5SM2725-6 | –             | –         |
| 1000 mA        | 0.3 ... 40 A | –         | –             | 5SM2822-8 |
|                | 0.3 ... 63 A | –         | –             | 5SM2825-8 |
|                | 80 ... 100 A | –         | –             | –         |
| <b>Type F</b>  |              |           |               |           |
| 30 mA          | 0.3 ... 40 A | –         | 5SM2322-3     | –         |
|                | 0.3 ... 63 A | –         | 5SM2325-3     | –         |
| <b>Type AC</b> |              |           |               |           |
| 10 mA          | 0.3 ... 40 A | 5SM2121-0 | –             | –         |
| 30 mA          | 0.3 ... 40 A | 5SM2322-0 | –             | –         |
|                | 0.3 ... 63 A | 5SM2325-0 | –             | –         |
|                | 80 ... 100 A | –         | –             | –         |
| 300 mA         | 0.3 ... 40 A | 5SM2622-0 | –             | 5SM2622-2 |
|                | 0.3 ... 63 A | 5SM2625-0 | –             | 5SM2625-2 |
|                | 80 ... 100 A | –         | –             | –         |
| 500 mA         | 0.3 ... 63 A | 5SM2725-0 | –             | –         |
| 1000 mA        | 0.3 ... 63 A | 5SM2825-0 | –             | –         |

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

## Mounting concept



MCB Miniature circuit breaker [See page 3/1](#)

AS Auxiliary switch [See page 4/58](#)

FC Fault signal contact [See page 4/60](#)

AS+FC Auxiliary switch and

fault signal contact

ST Shunt trips

[See page 4/61](#)

[See page 4/64](#)

UR Undervoltage release

RC mech. Remote control mechanism

[See page 4/65](#)

[See page 4/66](#)

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

## Accessories

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

| Undervoltage releases (UR)                        |                                | Article No.           |
|---------------------------------------------------|--------------------------------|-----------------------|
| With integrated auxiliary switch                  | 230 V AC                       | 5ST3040               |
|                                                   | 110 V DC                       | 5ST3041               |
|                                                   | 24 V DC                        | 5ST3042               |
| Without integrated auxiliary switch               | 230 V AC                       | 5ST3043               |
|                                                   | 110 V DC                       | 5ST3044               |
|                                                   | 24 V DC                        | 5ST3045               |
| Remote control 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 control mechanisms (RC mech.) |                                | Article No.           |
| 5SM2 with 5SY (2P)                                |                                | 5ST3820-3 + 5ST3820-1 |
| 5SM2 with 5SL (2P)                                |                                | 5ST3820-3 + 5ST3820-6 |

# 5SM2 RC units

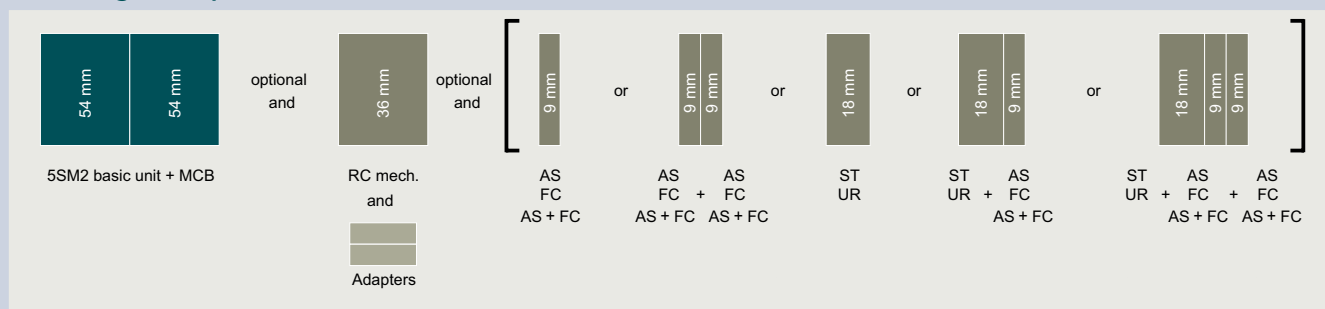
## Type A and AC, 3-pole

| Version<br>Mounting width | For 5SY miniature circuit breakers <sup>1)</sup><br>400 V AC                      |                                                                                   |                                                                                   | For 5SL4 miniature circuit breakers<br>400 V AC                                     |                                                                                     |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                           | Instantaneous                                                                     | Super resistant [K]                                                               | Selective [S]                                                                     | Instantaneous                                                                       | Selective [S]                                                                       |
|                           | 3 MW                                                                              | 3 MW                                                                              | 3 MW                                                                              | 3 MW                                                                                | 3 MW                                                                                |
|                           |  |  |  |  |  |

| $I_{\Delta n}$ | $I_n$        |           |               |           |           |           |
|----------------|--------------|-----------|---------------|-----------|-----------|-----------|
| Type A         |              |           |               |           |           |           |
| 30 mA          | 0.3 ... 40 A | 5SM2332-6 | 5SM2332-6KK01 | –         | 5SM2333-6 | –         |
|                | 0.3 ... 63 A | 5SM2335-6 | 5SM2335-6KK01 | –         | 5SM2336-6 | –         |
| 100 mA         | 0.3 ... 63 A | 5SM2435-6 | –             | –         | –         | –         |
| 300 mA         | 0.3 ... 40 A | 5SM2632-6 | –             | –         | 5SM2633-6 | –         |
|                | 0.3 ... 63 A | 5SM2635-6 | –             | 5SM2635-8 | 5SM2636-6 | 5SM2636-8 |
| 500 mA         | 0.3 ... 63 A | 5SM2735-6 | –             | 5SM2735-8 | –         | –         |
| 1000 mA        | 0.3 ... 40 A | –         | –             | 5SM2832-8 | –         | –         |
|                | 0.3 ... 63 A | –         | –             | 5SM2835-8 | –         | –         |
| Type AC        |              |           |               |           |           |           |
| 30 mA          | 0.3 ... 40 A | 5SM2332-0 | –             | –         | 5SM2333-0 | –         |
|                | 0.3 ... 63 A | 5SM2335-0 | –             | –         | 5SM2336-0 | –         |
| 300 mA         | 0.3 ... 40 A | 5SM2632-0 | –             | –         | 5SM2633-0 | –         |
|                | 0.3 ... 63 A | 5SM2635-0 | –             | –         | 5SM2636-0 | –         |
| 500 mA         | 0.3 ... 63 A | 5SM2735-0 | –             | –         | –         | –         |

<sup>1)</sup> Not suitable for use with 5SY5 and type A not suitable for use with 5SY8

## Mounting concept



MCB      Miniature circuit breaker      [See page 3/1](#)  
 AS      Auxiliary switch      [See page 4/58](#)  
 FC      Fault signal contact      [See page 4/60](#)  
 AS+FC      Auxiliary switch and fault signal contact      [See page 4/61](#)

ST      Shunt trips      [See page 4/64](#)  
 UR      Undervoltage release      [See page 4/65](#)  
 RC mech.      Remote control mechanism      [See page 4/66](#)

## Accessories

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

| Undervoltage releases (UR)                        |                                | Article No.           |
|---------------------------------------------------|--------------------------------|-----------------------|
| With integrated auxiliary switch                  | 230 V AC                       | 5ST3040               |
|                                                   | 110 V DC                       | 5ST3041               |
|                                                   | 24 V DC                        | 5ST3042               |
| Without integrated auxiliary switch               | 230 V AC                       | 5ST3043               |
|                                                   | 110 V DC                       | 5ST3044               |
|                                                   | 24 V DC                        | 5ST3045               |
| Remote control 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 control mechanisms (RC mech.) |                                | Article No.           |
| 5SM2 with 5SY (2P)                                |                                | 5ST3820-3 + 5ST3820-1 |
| 5SM2 with 5SL (2P)                                |                                | 5ST3820-3 + 5ST3820-6 |

# 5SM2 RC units

## Type A and AC, 4-pole

For 5SY miniature circuit breakers<sup>1)</sup>  
400 V AC

Version  
Mounting width

Instantaneous

Super resistant [K]

Selective [S]

SIGRES, instantaneous **new**

3 MW

3 MW

3 MW

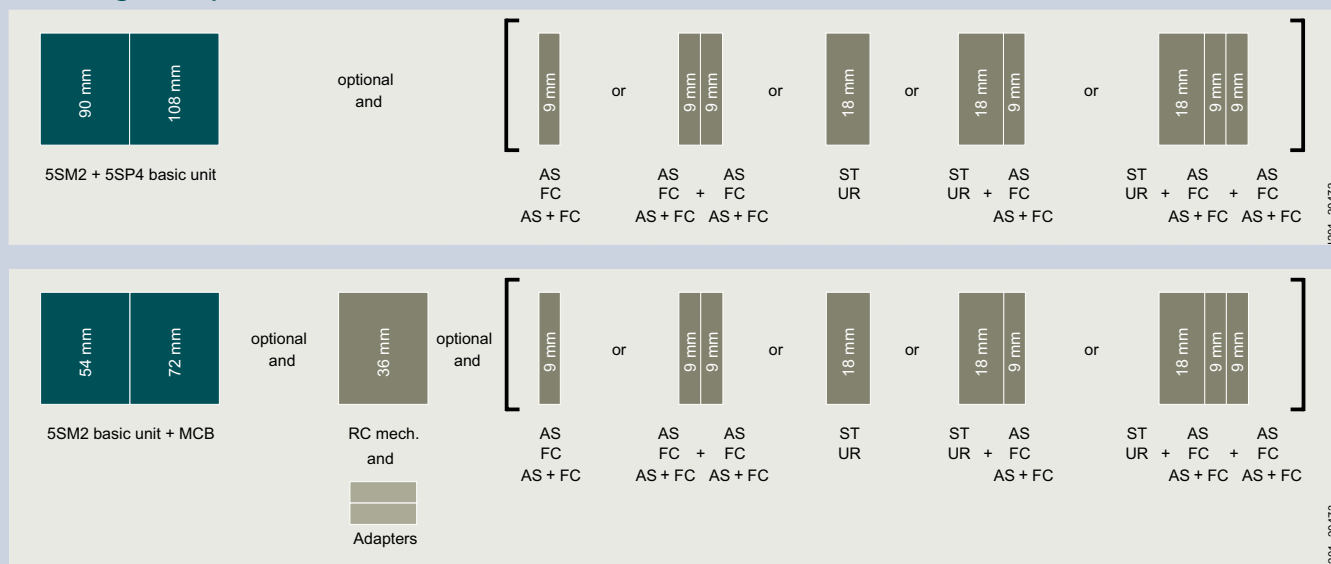
3 MW



| $I_{\Delta n}$ | $I_n$        |           |               |           |               |
|----------------|--------------|-----------|---------------|-----------|---------------|
| <b>Type A</b>  |              |           |               |           |               |
| 30 mA          | 0.3 ... 40 A | 5SM2342-6 | 5SM2342-6KK01 | –         | –             |
|                | 0.3 ... 63 A | 5SM2345-6 | 5SM2345-6KK01 | –         | 5SM2345-6KK12 |
|                | 80 ... 100 A | –         | –             | –         | –             |
| 100 mA         | 0.3 ... 63 A | 5SM2445-6 | –             | –         | –             |
| 300 mA         | 0.3 ... 40 A | 5SM2642-6 | –             | –         | –             |
|                | 0.3 ... 63 A | 5SM2645-6 | –             | 5SM2645-8 | 5SM2645-6KK12 |
|                | 80 ... 100 A | –         | –             | –         | –             |
| 500 mA         | 0.3 ... 63 A | 5SM2745-6 | –             | 5SM2845-8 | –             |
| 1000 mA        | 0.3 ... 40 A | –         | –             | 5SM2842-8 | –             |
|                | 0.3 ... 63 A | –         | –             | 5SM2845-8 | –             |
|                | 80 ... 100 A | –         | –             | –         | –             |
| <b>Type AC</b> |              |           |               |           |               |
| 30 mA          | 0.3 ... 40 A | 5SM2342-0 | –             | –         | –             |
|                | 0.3 ... 63 A | 5SM2345-0 | –             | –         | –             |
|                | 80 ... 100 A | –         | –             | –         | –             |
| 300 mA         | 0.3 ... 40 A | 5SM2642-0 | –             | –         | –             |
|                | 0.3 ... 63 A | 5SM2645-0 | –             | 5SM2645-2 | –             |
|                | 80 ... 100 A | –         | –             | –         | –             |
| 500 mA         | 0.3 ... 63 A | 5SM2745-0 | –             | –         | –             |
| 1000 mA        | 0.3 ... 63 A | –         | –             | 5SM2845-2 | –             |

<sup>1)</sup> Not suitable for use with 5SY5 and type A not suitable for use with 5SY8

## Mounting concept



MCB Miniature circuit breaker [See page 3/1](#)  
AS Auxiliary switch [See page 4/58](#)  
FC Fault signal contact [See page 4/60](#)

AS+FC Auxiliary switch and  
fault signal contact [See page 4/61](#)  
ST Shunt trips [See page 4/64](#)

UR Undervoltage release [See page 4/65](#)  
RC mech. Remote control mechanism [See page 4/66](#)

| For 5SL4 miniature circuit breakers<br>400 V AC                                  |                                                                                   | For 5SP4 miniature circuit breakers (B and C characteristics)<br>400 V AC         |                                                                                     |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Instantaneous                                                                    | Selective [S]                                                                     | Instantaneous                                                                     | Selective [S]                                                                       |
| 3 MW                                                                             | 3 MW                                                                              | 5 MW                                                                              | 5 MW                                                                                |
|  |  |  |  |
| 5SM2343-6                                                                        | —                                                                                 | —                                                                                 | —                                                                                   |
| 5SM2346-6                                                                        | —                                                                                 | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | 5SM2347-6                                                                         | —                                                                                   |
| —                                                                                | —                                                                                 | —                                                                                 | —                                                                                   |
| 5SM2643-6                                                                        | —                                                                                 | —                                                                                 | —                                                                                   |
| 5SM2646-6                                                                        | 5SM2646-8                                                                         | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | 5SM2647-6                                                                         | 5SM2647-8                                                                           |
| —                                                                                | —                                                                                 | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | —                                                                                 | 5SM2847-8                                                                           |
| 5SM2343-0                                                                        | —                                                                                 | —                                                                                 | —                                                                                   |
| 5SM2346-0                                                                        | —                                                                                 | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | 5SM2347-0                                                                         | —                                                                                   |
| 5SM2643-0                                                                        | —                                                                                 | —                                                                                 | —                                                                                   |
| 5SM2646-0                                                                        | 5SM2646-2                                                                         | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | 5SM2647-0                                                                         | —                                                                                   |
| —                                                                                | —                                                                                 | —                                                                                 | —                                                                                   |
| —                                                                                | —                                                                                 | —                                                                                 | —                                                                                   |

## Accessories

| Auxiliary switches (AS)                              |                            | Article No.   | Undervoltage releases (UR)                        |                                | Article No.           |
|------------------------------------------------------|----------------------------|---------------|---------------------------------------------------|--------------------------------|-----------------------|
| 1 NO + 1 NC                                          | Standard                   | 5ST3010       | With integrated auxiliary switch                  | 230 V AC                       | 5ST3040               |
|                                                      | For low power              | 5ST3013       |                                                   | 110 V DC                       | 5ST3041               |
|                                                      | For low power (with diode) | 5ST3013-0XX01 |                                                   | 24 V DC                        | 5ST3042               |
| 2 NO                                                 | Standard                   | 5ST3011       | Without integrated auxiliary switch               | 230 V AC                       | 5ST3043               |
|                                                      | For low power              | 5ST3014       |                                                   | 110 V DC                       | 5ST3044               |
| 2 NC                                                 | Standard                   | 5ST3012       |                                                   | 24 V DC                        | 5ST3045               |
|                                                      | For low power              | 5ST3015       |                                                   |                                |                       |
| 1 CO                                                 | Standard                   | 5ST3016       | Remote control mechanisms (RC mech.)              |                                | Article No.           |
| Fault signal contacts (FC)                           |                            | Article No.   | Power                                             | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3055               |
|                                                      |                            |               |                                                   | 177 ... 270 V AC               | 5ST3056               |
| 1 NO + 1 NC                                          |                            | 5ST3020       | Power with ARD                                    | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3057               |
| 2 NO                                                 |                            | 5ST3021       |                                                   | 177 ... 270 V AC               | 5ST3058               |
| 2 NC                                                 |                            | 5ST3022       | Power with extended function                      | 12 ... 30 V AC, 12 ... 48 V DC | 5ST3070               |
| Auxiliary switches and fault signal contacts (AS+FC) |                            | Article No.   |                                                   |                                |                       |
| 1 CO (AS) + 1 CO (FC)                                |                            | 5ST3062       | Adapters for remote control mechanisms (RC mech.) |                                | Article No.           |
| 5ST3 COM (AS+FC)                                     |                            | 5ST3062-0MC   | 5SM2 with 5SY (4P)                                |                                | 5ST3820-3 + 5ST3820-2 |
| Shunt trips (ST)                                     |                            | Article No.   | 5SM2 with 5SL (4P)                                |                                | 5ST3820-3 + 5ST3820-7 |
| 110 ... 415 V AC, 110 ... 220 V DC                   |                            | 5ST3030       |                                                   |                                |                       |
| 24 ... 48 V AC/DC                                    |                            | 5ST3031       |                                                   |                                |                       |
| 12 V DC                                              |                            | 5ST3031-0XX01 |                                                   |                                |                       |

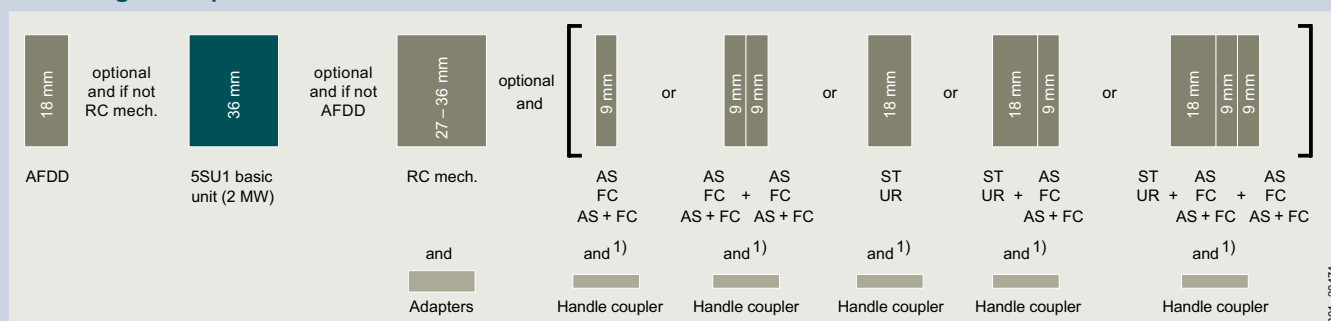
# 5SU1 RCBOs

Type A, 1P+N

|                                 | Instantaneous<br>230 V AC                                                         |                                                                                   |                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mounting width                  | 2 MW                                                                              | 2 MW                                                                              | 2 MW                                                                                |
| Short-circuit breaking capacity | 4.5 kA                                                                            | 4.5 kA                                                                            | 6 kA                                                                                |
| N connection                    | Right                                                                             | Left                                                                              | Right                                                                               |
|                                 |  |  |  |

| $I_{\Delta n}$ | $I_n$ | Bulk packaging<br>(36 units) | Characteristic<br>C | C             | Characteristic<br>B | C             |
|----------------|-------|------------------------------|---------------------|---------------|---------------------|---------------|
| Type A         |       |                              |                     |               |                     |               |
| 10 mA          | 6 A   | —                            | —                   | —             | —                   | —             |
|                | 10 A  | —                            | —                   | —             | —                   | —             |
|                | 13 A  | —                            | —                   | —             | —                   | —             |
|                | 16 A  | —                            | —                   | —             | —                   | —             |
| 30 mA          | 6 A   | —                            | 5SU1353-7KK06       | 5SU1353-7KL06 | 5SU1356-6KK06       | 5SU1356-7KK06 |
|                |       | ■                            | —                   | —             | 5SU1356-6GV06       | 5SU1356-7GV06 |
|                | 8 A   | —                            | 5SU1353-7KK08       | —             | —                   | 5SU1356-7KK08 |
|                | 10 A  | —                            | 5SU1353-7KK10       | 5SU1353-7KL10 | 5SU1356-6KK10       | 5SU1356-7KK10 |
|                |       | ■                            | —                   | —             | 5SU1356-6GV10       | 5SU1356-7GV10 |
|                | 13 A  | —                            | 5SU1353-7KK13       | —             | 5SU1356-6KK13       | 5SU1356-7KK13 |
|                | 16 A  | —                            | 5SU1353-7KK16       | 5SU1353-7KL16 | 5SU1356-6KK16       | 5SU1356-7KK16 |
|                |       | ■                            | —                   | —             | 5SU1356-6GV16       | 5SU1356-7GV16 |
|                | 20 A  | —                            | 5SU1353-7KK20       | 5SU1353-7KL20 | 5SU1356-6KK20       | 5SU1356-7KK20 |
|                | 25 A  | —                            | 5SU1353-7KK25       | 5SU1353-7KL25 | 5SU1356-6KK25       | 5SU1356-7KK25 |
|                | 32 A  | —                            | 5SU1353-7KK32       | 5SU1353-7KL32 | 5SU1356-6KK32       | 5SU1356-7KK32 |
|                | 40 A  | —                            | 5SU1353-7KK40       | 5SU1353-7KL40 | 5SU1356-6KK40       | 5SU1356-7KK40 |
| 300 mA         | 6 A   | —                            | 5SU1653-7KK06       | —             | 5SU1656-6KK06       | 5SU1656-7KK06 |
|                | 10 A  | —                            | 5SU1653-7KK10       | —             | 5SU1656-6KK10       | 5SU1656-7KK10 |
|                | 13 A  | —                            | 5SU1653-7KK13       | —             | 5SU1656-6KK13       | 5SU1656-7KK13 |
|                | 16 A  | —                            | 5SU1653-7KK16       | —             | 5SU1656-6KK16       | 5SU1656-7KK16 |
|                | 20 A  | —                            | 5SU1653-7KK20       | —             | 5SU1656-6KK20       | 5SU1656-7KK20 |
|                | 25 A  | —                            | 5SU1653-7KK25       | —             | 5SU1656-6KK25       | 5SU1656-7KK25 |
|                | 32 A  | —                            | 5SU1653-7KK32       | —             | 5SU1656-6KK32       | 5SU1656-7KK32 |
|                | 40 A  | —                            | 5SU1653-7KK40       | —             | 5SU1656-6KK40       | 5SU1656-7KK40 |

## Mounting concept



<sup>1)</sup> Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

AFDD Arc fault detection unit

AS Auxiliary switch

FC Fault signal contact

AS+FC Auxiliary switch and fault signal contact

[See page 4/52](#)

[See page 4/58](#)

[See page 4/60](#)

[See page 4/61](#)

ST Shunt trips

UR Undervoltage release

RC mech. Remote control mechanism

[See page 4/64](#)

[See page 4/65](#)

[See page 4/66](#)

| Instantaneous<br>230 V AC                                                        |               | Short-time delayed [G], super resistant [K]<br>230 V AC                           |               |
|----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|---------------|
| 2 MW                                                                             |               | 2 MW                                                                              |               |
| 10 kA                                                                            |               | 10 kA                                                                             |               |
| Right                                                                            |               | Right                                                                             |               |
|  |               |  |               |
| Characteristic<br>B                                                              | C             | Characteristic<br>B                                                               | C             |
| 5SU1154-6KK06                                                                    | 5SU1154-7KK06 | –                                                                                 | –             |
| 5SU1154-6KK10                                                                    | 5SU1154-7KK10 | –                                                                                 | –             |
| 5SU1154-6KK13                                                                    | 5SU1154-7KK13 | –                                                                                 | –             |
| 5SU1154-6KK16                                                                    | 5SU1154-7KK16 | –                                                                                 | –             |
| 5SU1354-6KK06                                                                    | 5SU1354-7KK06 | –                                                                                 | –             |
| 5SU1354-6GV06                                                                    | 5SU1354-7GV06 | –                                                                                 | –             |
| –                                                                                | 5SU1354-7KK08 | –                                                                                 | –             |
| 5SU1354-6KK10                                                                    | 5SU1354-7KK10 | 5SU1354-6LB10                                                                     | 5SU1354-7LB10 |
| 5SU1354-6GV10                                                                    | 5SU1354-7GV10 | –                                                                                 | –             |
| 5SU1354-6KK13                                                                    | 5SU1354-7KK13 | 5SU1354-6LB13                                                                     | 5SU1354-7LB13 |
| 5SU1354-6KK16                                                                    | 5SU1354-7KK16 | 5SU1354-6LB16                                                                     | 5SU1354-7LB16 |
| 5SU1354-6GV16                                                                    | 5SU1354-7GV16 | –                                                                                 | –             |
| 5SU1354-6KK20                                                                    | 5SU1354-7KK20 | 5SU1354-6LB20                                                                     | 5SU1354-7LB20 |
| 5SU1354-6KK25                                                                    | 5SU1354-7KK25 | 5SU1354-6LB25                                                                     | 5SU1354-7LB25 |
| 5SU1354-6KK32                                                                    | 5SU1354-7KK32 | 5SU1354-6LB32                                                                     | 5SU1354-7LB32 |
| 5SU1354-6KK40                                                                    | 5SU1354-7KK40 | 5SU1354-6LB40                                                                     | 5SU1354-7LB40 |
| 5SU1654-6KK06                                                                    | 5SU1654-7KK06 | –                                                                                 | –             |
| 5SU1654-6KK10                                                                    | 5SU1654-7KK10 | –                                                                                 | –             |
| 5SU1654-6KK13                                                                    | 5SU1654-7KK13 | –                                                                                 | –             |
| 5SU1654-6KK16                                                                    | 5SU1654-7KK16 | –                                                                                 | –             |
| 5SU1654-6KK20                                                                    | 5SU1654-7KK20 | –                                                                                 | –             |
| 5SU1654-6KK25                                                                    | 5SU1654-7KK25 | –                                                                                 | –             |
| 5SU1654-6KK32                                                                    | 5SU1654-7KK32 | –                                                                                 | –             |
| 5SU1654-6KK40                                                                    | 5SU1654-7KK40 | –                                                                                 | –             |

## Accessories

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

| Undervoltage releases (UR)                        |                                   | Article No. |
|---------------------------------------------------|-----------------------------------|-------------|
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040     |
|                                                   | 110 V DC                          | 5ST3041     |
|                                                   | 24 V DC                           | 5ST3042     |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043     |
|                                                   | 110 V DC                          | 5ST3044     |
|                                                   | 24 V DC                           | 5ST3045     |
| Handle couplers for AS, FC, AS+FC, ST and UR      |                                   | Article No. |
| 1 set = 5 units                                   |                                   | 5ST3805-1   |
| Remote control mechanisms (RC mech.)              |                                   | Article No. |
| Basic                                             | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053     |
|                                                   | 177 ... 270 V AC                  | 5ST3054     |
| Power                                             | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055     |
|                                                   | 177 ... 270 V AC                  | 5ST3056     |
| Power with ARD                                    | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057     |
|                                                   | 177 ... 270 V AC                  | 5ST3058     |
| Power with extended function                      | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070     |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071     |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No. |
| 2 MW                                              |                                   | 5ST3820-5   |
| Arc fault detection units (AFDD)                  |                                   | Article No. |
| For 5SU1 basic units                              | $I_n$ up to 16 A                  | 5SM6021-2   |
|                                                   | $I_n$ up to 40 A                  | 5SM6024-2   |

# 5SU1 RCBOs

Type F, 1P+N

Mounting width  
Short-circuit breaking capacity  
N connection

Super resistant [K]  
230 V AC

2 MW

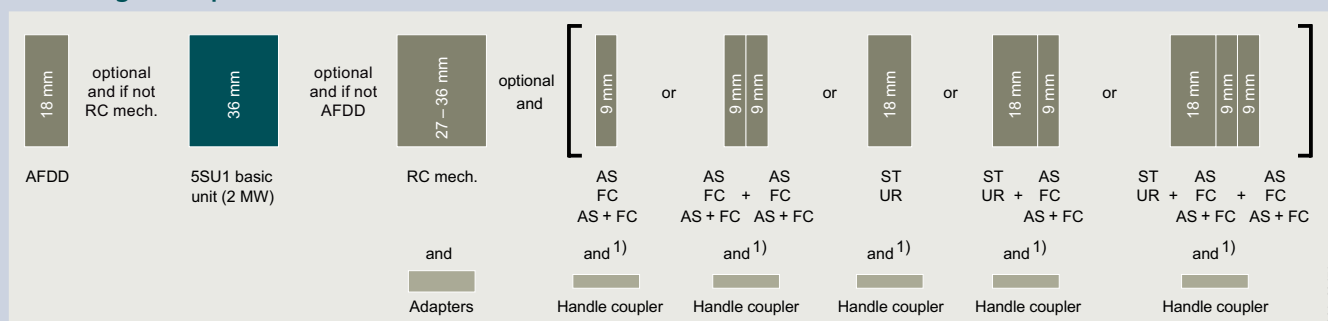
10 kA

Right



| $I_{\Delta n}$ | $I_n$ | Characteristic |               |
|----------------|-------|----------------|---------------|
| Type F         |       | B              | C             |
| 30 mA          | 6 A   | 5SU1354-3KK06  | 5SU1354-4KK06 |
|                | 10 A  | 5SU1354-3KK10  | 5SU1354-4KK10 |
|                | 13 A  | 5SU1354-3KK13  | 5SU1354-4KK13 |
|                | 16 A  | 5SU1354-3KK16  | 5SU1354-4KK16 |
|                | 20 A  | 5SU1354-3KK20  | 5SU1354-4KK20 |
|                | 25 A  | 5SU1354-3KK25  | 5SU1354-4KK25 |
|                | 32 A  | 5SU1354-3KK32  | 5SU1354-4KK32 |
|                | 40 A  | 5SU1354-3KK40  | 5SU1354-4KK40 |

## Mounting concept



<sup>1)</sup> Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.

AFDD Arc fault detection unit

[See page 4/52](#)

ST Shunt trips

[See page 4/64](#)

AS Auxiliary switch

[See page 4/58](#)

UR Undervoltage release

[See page 4/65](#)

FC Fault signal contact

[See page 4/60](#)

RC mech. Remote control mechanism

[See page 4/66](#)

AS+FC Auxiliary switch and fault signal contact

[See page 4/61](#)

## Accessories

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

| Undervoltage releases (UR)                        |                                   | Article No. |
|---------------------------------------------------|-----------------------------------|-------------|
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040     |
|                                                   | 110 V DC                          | 5ST3041     |
|                                                   | 24 V DC                           | 5ST3042     |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043     |
|                                                   | 110 V DC                          | 5ST3044     |
|                                                   | 24 V DC                           | 5ST3045     |
| Handle couplers for AS, FC, AS+FC, ST and UR      |                                   | Article No. |
| 1 set = 5 units                                   |                                   | 5ST3805-1   |
| Remote control 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     |
|                                                   | AC 170 ... 277 V, DC 77 ... 286 V | 5ST3071     |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No. |
| 2 MW                                              |                                   | 5ST3820-5   |
| Arc fault detection units (AFDD)                  |                                   | Article No. |
| For 5SU1 basic units                              | $I_n$ up to 16 A                  | 5SM6021-2   |
|                                                   | $I_n$ up to 40 A                  | 5SM6024-2   |

Type AC, 1P+N

| $I_{\Delta n}$ | $I_n$ | Bulk packaging<br>(36 units) | Characteristic<br>C | C             | Characteristic<br>B | C             |
|----------------|-------|------------------------------|---------------------|---------------|---------------------|---------------|
| Type AC        |       |                              |                     |               |                     |               |
| 30 mA          | 6 A   | —                            | 5SU1353-1KK06       | 5SU1353-1KL06 | 5SU1356-0KK06       | 5SU1356-1KK06 |
|                | 8 A   | —                            | 5SU1353-1KK08       | —             | —                   | 5SU1356-1KK08 |
|                | 10 A  | —                            | 5SU1353-1KK10       | 5SU1353-1KL10 | 5SU1356-0KK10       | 5SU1356-1KK10 |
|                |       | ■                            | 5SU1353-1GV10       | —             | —                   | —             |
|                | 13 A  | —                            | 5SU1353-1KK13       | 5SU1353-1KL13 | 5SU1356-0KK13       | 5SU1356-1KK13 |
|                | 16 A  | —                            | 5SU1353-1KK16       | 5SU1353-1KL16 | 5SU1356-0KK16       | 5SU1356-1KK16 |
|                |       | ■                            | 5SU1353-1GV16       | —             | —                   | 5SU1356-1GV16 |
|                | 20 A  | —                            | 5SU1353-1KK20       | 5SU1353-1KL20 | 5SU1356-0KK20       | 5SU1356-1KK20 |
|                | 25 A  | —                            | 5SU1353-1KK25       | 5SU1353-1KL25 | 5SU1356-0KK25       | 5SU1356-1KK25 |
|                | 32 A  | —                            | 5SU1353-1KK32       | 5SU1353-1KL32 | 5SU1356-0KK32       | 5SU1356-1KK32 |
| 40 A           | —     | 5SU1353-1KK40                | 5SU1353-1KL40       | 5SU1356-0KK40 | 5SU1356-1KK40       |               |
| 100 mA         | 6 A   | —                            | —                   | —             | —                   | —             |
|                | 10 A  | —                            | —                   | —             | —                   | —             |
|                | 13 A  | —                            | —                   | —             | —                   | —             |
|                | 16 A  | —                            | —                   | —             | —                   | —             |
|                | 20 A  | —                            | —                   | —             | —                   | —             |
|                | 25 A  | —                            | —                   | —             | —                   | —             |
|                | 32 A  | —                            | —                   | —             | —                   | —             |
|                | 40 A  | —                            | —                   | —             | —                   | —             |
| 300 mA         | 6 A   | —                            | 5SU1653-1KK06       | 5SU1653-1KL06 | 5SU1656-0KK06       | 5SU1656-1KK06 |
|                | 10 A  | —                            | 5SU1653-1KK10       | 5SU1653-1KL10 | 5SU1656-0KK10       | 5SU1656-1KK10 |
|                | 13 A  | —                            | 5SU1653-1KK13       | 5SU1653-1KL16 | 5SU1656-0KK13       | 5SU1656-1KK13 |
|                | 16 A  | —                            | 5SU1653-1KK16       | —             | 5SU1656-0KK16       | 5SU1656-1KK16 |
|                |       | ■                            | 5SU1653-1GV16       | —             | —                   | —             |
|                | 20 A  | —                            | 5SU1653-1KK20       | 5SU1653-1KL20 | 5SU1656-0KK20       | 5SU1656-1KK20 |
|                | 25 A  | —                            | 5SU1653-1KK25       | 5SU1653-1KL25 | 5SU1656-0KK25       | 5SU1656-1KK25 |
|                | 32 A  | —                            | 5SU1653-1KK32       | 5SU1653-1KL32 | 5SU1656-0KK32       | 5SU1656-1KK32 |
|                | 40 A  | —                            | 5SU1653-1KK40       | 5SU1653-1KL40 | 5SU1656-0KK40       | 5SU1656-1KK40 |

The diagram illustrates the assembly of the 5SU1 basic unit (2 MW) with various components and their dimensions. The components are arranged in a row, separated by 'or' and 'and' indicators.

- AFDD**: 18 mm (optional and if not RC mech.)
- 5SU1 basic unit (2 MW)**: 36 mm
- RC mech.**: 27 - 36 mm (optional and)
- AS FC**: 9 mm (optional and)
- AS FC + AS FC**: 9 mm + 9 mm (optional and)
- ST UR**: 18 mm (optional and)
- ST UR + AS FC**: 18 mm + 9 mm (optional and)
- AS FC + AS FC**: 18 mm + 9 mm + 9 mm (optional and)

Below the components, there are labels for the assembly parts:

- Adapters**: and
- Handle coupler**: and<sup>1)</sup>
- Handle coupler**: and<sup>1)</sup>
- Handle coupler**: and<sup>1)</sup>
- Handle coupler**: and<sup>1)</sup>
- Handle coupler**: and<sup>1)</sup>

|       |                                           |                               |          |                          |                               |
|-------|-------------------------------------------|-------------------------------|----------|--------------------------|-------------------------------|
| AFDD  | Arc fault detection unit                  | <a href="#">See page 4/52</a> | ST       | Shunt trips              | <a href="#">See page 4/64</a> |
| AS    | Auxiliary switch                          | <a href="#">See page 4/58</a> | UR       | Undervoltage release     | <a href="#">See page 4/65</a> |
| FC    | Fault signal contact                      | <a href="#">See page 4/60</a> | RC mech. | Remote control mechanism | <a href="#">See page 4/66</a> |
| AS+FC | Auxiliary switch and fault signal contact | <a href="#">See page 4/61</a> |          |                          |                               |

| Instantaneous<br>230 V AC                                                        |               | Short-time delayed [G], super resistant [K]<br>230 V AC                           |               |
|----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|---------------|
| 2 MW                                                                             |               | 2 MW                                                                              |               |
| 10 kA                                                                            |               | 10 kA                                                                             |               |
| Right                                                                            |               | Right                                                                             |               |
|  |               |  |               |
| Characteristic<br>B                                                              | C             | Characteristic<br>B                                                               | C             |
| 5SU1354-0KK06                                                                    | 5SU1354-1KK06 | –                                                                                 | –             |
| –                                                                                | 5SU1354-1KK08 | –                                                                                 | –             |
| 5SU1354-0KK10                                                                    | 5SU1354-1KK10 | 5SU1354-0LB10                                                                     | 5SU1354-1LB10 |
| –                                                                                | –             | –                                                                                 | –             |
| 5SU1354-0KK13                                                                    | 5SU1354-1KK13 | 5SU1354-0LB13                                                                     | 5SU1354-1LB13 |
| 5SU1354-0KK16                                                                    | 5SU1354-1KK16 | 5SU1354-0LB16                                                                     | 5SU1354-1LB16 |
| –                                                                                | –             | –                                                                                 | –             |
| 5SU1354-0KK20                                                                    | 5SU1354-1KK20 | 5SU1354-0LB20                                                                     | 5SU1354-1LB20 |
| 5SU1354-0KK25                                                                    | 5SU1354-1KK25 | 5SU1354-0LB25                                                                     | 5SU1354-1LB25 |
| 5SU1354-0KK32                                                                    | 5SU1354-1KK32 | 5SU1354-0LB32                                                                     | 5SU1354-1LB32 |
| 5SU1354-0KK40                                                                    | 5SU1354-1KK40 | 5SU1354-0LB40                                                                     | 5SU1354-1LB40 |
| –                                                                                | 5SU1454-1KK06 | –                                                                                 | –             |
| –                                                                                | 5SU1454-1KK10 | –                                                                                 | –             |
| –                                                                                | 5SU1454-1KK13 | –                                                                                 | –             |
| –                                                                                | 5SU1454-1KK16 | –                                                                                 | –             |
| –                                                                                | 5SU1454-1KK20 | –                                                                                 | –             |
| –                                                                                | 5SU1454-1KK25 | –                                                                                 | –             |
| –                                                                                | 5SU1454-1KK32 | –                                                                                 | –             |
| –                                                                                | 5SU1454-1KK40 | –                                                                                 | –             |
| 5SU1654-0KK06                                                                    | 5SU1654-1KK06 | –                                                                                 | –             |
| 5SU1654-0KK10                                                                    | 5SU1654-1KK10 | –                                                                                 | –             |
| 5SU1654-0KK13                                                                    | 5SU1654-1KK13 | –                                                                                 | –             |
| 5SU1654-0KK16                                                                    | 5SU1654-1KK16 | –                                                                                 | –             |
| –                                                                                | –             | –                                                                                 | –             |
| 5SU1654-0KK20                                                                    | 5SU1654-1KK20 | –                                                                                 | –             |
| 5SU1654-0KK25                                                                    | 5SU1654-1KK25 | –                                                                                 | –             |
| 5SU1654-0KK32                                                                    | 5SU1654-1KK32 | –                                                                                 | –             |
| 5SU1654-0KK40                                                                    | 5SU1654-1KK40 | –                                                                                 | –             |

## Accessories

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

| Undervoltage releases (UR)                        |                                   | Article No. |
|---------------------------------------------------|-----------------------------------|-------------|
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040     |
|                                                   | 110 V DC                          | 5ST3041     |
|                                                   | 24 V DC                           | 5ST3042     |
| Without integrated auxiliary switch               | 230 V AC                          | 5ST3043     |
|                                                   | 110 V DC                          | 5ST3044     |
|                                                   | 24 V DC                           | 5ST3045     |
| Handle couplers for AS, FC, AS+FC, ST and UR      |                                   | Article No. |
| 1 set = 5 units                                   |                                   | 5ST3805-1   |
| Remote control mechanisms (RC mech.)              |                                   | Article No. |
| Basic                                             | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053     |
|                                                   | 177 ... 270 V AC                  | 5ST3054     |
|                                                   | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055     |
| Power                                             | 177 ... 270 V AC                  | 5ST3056     |
|                                                   | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057     |
| Power with ARD                                    | 177 ... 270 V AC                  | 5ST3058     |
|                                                   | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070     |
| Power with extended function                      | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071     |
|                                                   | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3071     |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No. |
| 2 MW                                              |                                   | 5ST3820-5   |
| Arc fault detection units (AFDD)                  |                                   | Article No. |
| For 5SU1 basic units                              | $I_n$ up to 16 A                  | 5SM6021-2   |
|                                                   | $I_n$ up to 40 A                  | 5SM6024-2   |

# 5SU1 RCBOs

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

2-pole  
Instantaneous  
230 V AC

Short-circuit breaking capacity

6 kA

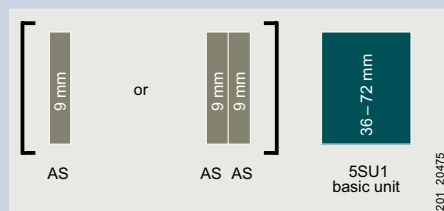


10 kA



| $I_{\Delta n}$ | $I_n$ | Characteristic |               | Characteristic |               |
|----------------|-------|----------------|---------------|----------------|---------------|
|                |       | B              | C             | B              | C             |
| 30 mA          | 6 A   | 5SU1326-6FP06  | 5SU1326-7FP06 | 5SU1324-6FP06  | 5SU1324-7FP06 |
|                | 10 A  | 5SU1326-6FP10  | 5SU1326-7FP10 | 5SU1324-6FP10  | 5SU1324-7FP10 |
|                | 13 A  | 5SU1326-6FP13  | 5SU1326-7FP13 | 5SU1324-6FP13  | 5SU1324-7FP13 |
|                | 16 A  | 5SU1326-6FP16  | 5SU1326-7FP16 | 5SU1324-6FP16  | 5SU1324-7FP16 |
|                | 20 A  | 5SU1326-6FP20  | 5SU1326-7FP20 | 5SU1324-6FP20  | 5SU1324-7FP20 |
|                | 25 A  | 5SU1326-6FP25  | 5SU1326-7FP25 | 5SU1324-6FP25  | 5SU1324-7FP25 |
|                | 32 A  | 5SU1326-6FP32  | 5SU1326-7FP32 | 5SU1324-6FP32  | 5SU1324-7FP32 |
| 300 mA         | 6 A   | —              | —             | —              | —             |
|                | 10 A  | —              | —             | —              | —             |
|                | 16 A  | —              | —             | —              | —             |
|                | 20 A  | —              | —             | —              | —             |
|                | 25 A  | —              | —             | —              | —             |
|                | 32 A  | —              | —             | —              | —             |

## Mounting concept



AS

Auxiliary switch

[See page 4/58](#)

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

## Accessories

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

# 5SU1 RCBOs

## Type A and AC, 2-pole

Mounting width  
Short-circuit breaking capacity

Instantaneous  
110 V AC

3 MW

10 kA



230 V AC

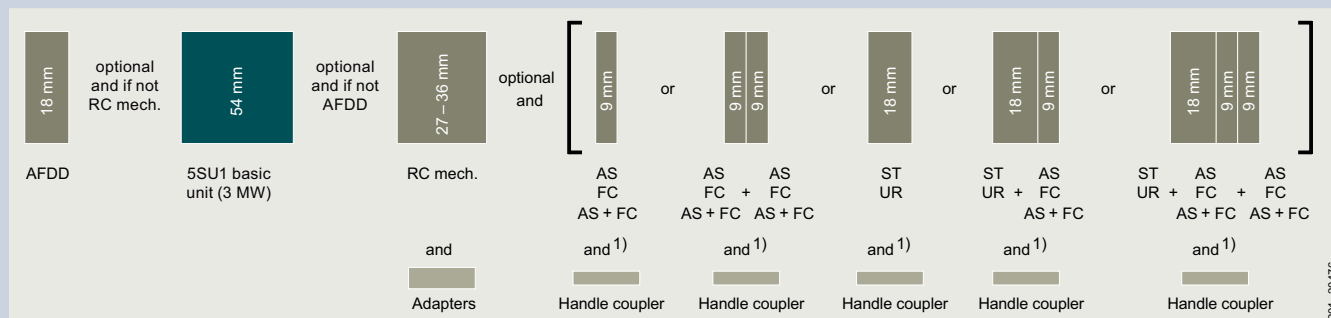
3 MW

10 kA

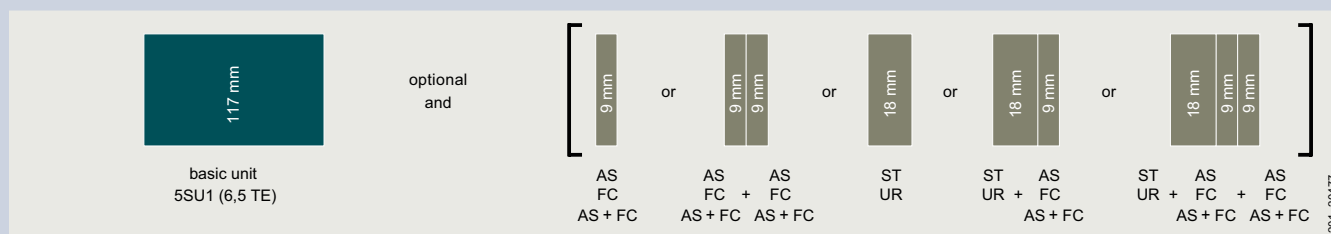


| $I_{\Delta n}$ | $I_n$ | Characteristic |               | Characteristic |
|----------------|-------|----------------|---------------|----------------|
|                |       | B              | C             | B              |
| <b>Type A</b>  |       |                |               |          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

## Mounting concept



<sup>1)</sup> Handle couplers are required for direct attachment of the components to the 5SU1. No handle coupler is required for attaching the components to the RC mech.



AFDD Arc fault detection unit [See page 4/52](#)

AS Auxiliary switch [See page 4/58](#)

FC Fault signal contact [See page 4/60](#)

AS+FC Auxiliary switch and

fault signal contact

ST Shunt trips

[See page 4/61](#)

[See page 4/64](#)

UR Undervoltage release

RC mech. Remote control mechanism

[See page 4/65](#)

[See page 4/66](#)

|                                                                                   |                     |               | Selective [S]<br>230 V AC                                                          |               |
|-----------------------------------------------------------------------------------|---------------------|---------------|------------------------------------------------------------------------------------|---------------|
|                                                                                   |                     |               | 6.5 MW                                                                             | 6.5 MW        |
|                                                                                   |                     |               | 10 kA                                                                              | 10 kA         |
|  |                     |               |  |               |
| C                                                                                 | Characteristic<br>B | C             | Characteristic<br>B                                                                | C             |
| 5SU1324-7FA06                                                                     | –                   | –             | –                                                                                  | –             |
| 5SU1324-7FA10                                                                     | –                   | –             | –                                                                                  | –             |
| 5SU1324-7FA13                                                                     | –                   | –             | –                                                                                  | –             |
| 5SU1324-7FA16                                                                     | –                   | –             | –                                                                                  | –             |
| 5SU1324-7FA20                                                                     | –                   | –             | –                                                                                  | –             |
| 5SU1324-7FA25                                                                     | –                   | –             | –                                                                                  | –             |
| 5SU1324-7FA32                                                                     | –                   | –             | –                                                                                  | –             |
| 5SU1324-7FA40                                                                     | –                   | –             | –                                                                                  | –             |
| –                                                                                 | 5SU1324-6KK82       | 5SU1324-7KK82 | –                                                                                  | –             |
| –                                                                                 | 5SU1624-6KK82       | 5SU1624-7KK82 | 5SU1624-6WK82                                                                      | 5SU1624-7WK82 |
| –                                                                                 | 5SU1324-0KK82       | 5SU1324-1KK82 | –                                                                                  | –             |
| –                                                                                 | 5SU1624-0KK82       | 5SU1624-1KK82 | –                                                                                  | –             |

## Accessories

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

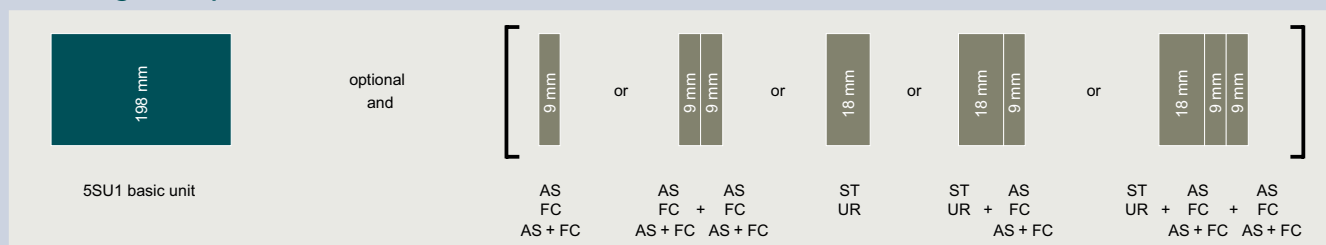
| Undervoltage releases (UR)                        |                                   | Article No. |
|---------------------------------------------------|-----------------------------------|-------------|
| With integrated auxiliary switch                  | 230 V AC                          | 5ST3040     |
|                                                   | 110 V DC                          | 5ST3041     |
|                                                   | 24 V DC                           | 5ST3042     |
|                                                   | 230 V AC                          | 5ST3043     |
| Without integrated auxiliary switch               | 110 V DC                          | 5ST3044     |
|                                                   | 24 V DC                           | 5ST3045     |
| Handle couplers for AS, FC, AS+FC, ST and UR      |                                   | Article No. |
| 1 set = 5 units                                   |                                   | 5ST3805-1   |
| Remote control mechanisms (RC mech.)              |                                   | Article No. |
| Basic                                             | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053     |
|                                                   | 177 ... 270 V AC                  | 5ST3054     |
|                                                   | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055     |
| Power                                             | 177 ... 270 V AC                  | 5ST3056     |
|                                                   | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057     |
|                                                   | 177 ... 270 V AC                  | 5ST3058     |
| Power with ARD                                    | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070     |
|                                                   | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071     |
| Power with extended function                      |                                   | 5ST3071     |
| Adapters for remote control mechanisms (RC mech.) |                                   | Article No. |
| 2 MW                                              |                                   | 5ST3820-5   |
| Arc fault detection units (AFDD)                  |                                   | Article No. |
| For 5SU1 basic units (3 MW)                       | $I_n$ up to 16 A                  | 5SM6021-2   |
|                                                   | $I_n$ up to 40 A                  | 5SM6024-2   |

# 5SU1 RCBOs

Type A and AC, 4-pole

|                                 |       | Instantaneous<br>400 V AC                                                         |               | Selective [S]<br>400 V AC                                                          |               |
|---------------------------------|-------|-----------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------|---------------|
| Mounting width                  |       | 11 MW                                                                             |               | 11 MW                                                                              |               |
| Short-circuit breaking capacity |       | 10 kA                                                                             |               | 10 kA                                                                              |               |
|                                 |       |  |               |  |               |
| $I_{\Delta n}$                  | $I_n$ | Characteristic                                                                    |               | Characteristic                                                                     |               |
|                                 |       | B                                                                                 | C             | B                                                                                  | C             |
| Type A                          |       |                                                                                   |               |                                                                                    |               |
| 30 mA                           | 125 A | 5SU1344-6KK82                                                                     | 5SU1344-7KK82 | –                                                                                  | –             |
| 300 mA                          | 125 A | 5SU1644-6KK82                                                                     | 5SU1644-7KK82 | 5SU1644-6WK82                                                                      | 5SU1644-7WK82 |
| 1000 mA                         | 125 A | –                                                                                 | –             | 5SU1844-6WK82                                                                      | 5SU1844-7WK82 |
| Type AC                         |       |                                                                                   |               |                                                                                    |               |
| 30 mA                           | 125 A | 5SU1344-0KK82                                                                     | 5SU1344-1KK82 | –                                                                                  | –             |
| 300 mA                          | 125 A | 5SU1644-0KK82                                                                     | 5SU1644-1KK82 | –                                                                                  | –             |

## Mounting concept



AS Auxiliary switch  
FC Fault signal contact  
AS+FC Auxiliary switch and fault signal contact

[See page 4/58](#)  
[See page 4/60](#)  
[See page 4/61](#)

ST Shunt trips  
UR Undervoltage release

[See page 4/64](#)  
[See page 4/65](#)

## Type B and B+, 4-pole

| Mounting width<br>Short-circuit breaking capacity |       | Super resistant [K]                                                               |               | 480 V AC       |  | Selective [S]                                                                       |               |
|---------------------------------------------------|-------|-----------------------------------------------------------------------------------|---------------|----------------|--|-------------------------------------------------------------------------------------|---------------|
|                                                   |       | 400 V AC                                                                          |               |                |  | 400 V AC                                                                            |               |
|                                                   |       | 11 MW                                                                             |               | 11 MW          |  | 11 MW                                                                               |               |
|                                                   |       | 10 kA                                                                             |               | 10 kA          |  | 10 kA                                                                               |               |
|                                                   |       |  |               |                |  |  |               |
| $I_{\Delta n}$                                    | $I_n$ | Characteristic                                                                    |               | Characteristic |  | Characteristic                                                                      |               |
|                                                   |       | C                                                                                 | D             | C              |  | C                                                                                   | D             |
| <b>Type B</b>                                     |       |                                                                                   |               |                |  |                                                                                     |               |
| 30 mA                                             | 100 A | 5SU1374-7AK81                                                                     | 5SU1374-8AK81 | –              |  | –                                                                                   |               |
|                                                   | 125 A | 5SU1374-7AK82                                                                     | –             | –              |  | –                                                                                   |               |
| 300 mA                                            | 100 A | 5SU1674-7AK81                                                                     | 5SU1674-8AK81 | 5SU1674-7CK81  |  | –                                                                                   | 5SU1674-8BK81 |
|                                                   | 125 A | 5SU1674-7AK82                                                                     | –             | 5SU1674-7CK82  |  | 5SU1674-7BK82                                                                       | –             |
| <b>Type B+</b>                                    |       |                                                                                   |               |                |  |                                                                                     |               |
| 30 mA                                             | 100 A | 5SU1374-7DK81                                                                     | 5SU1374-8DK81 | –              |  | –                                                                                   |               |
|                                                   | 125 A | 5SU1374-7DK82                                                                     | –             | –              |  | –                                                                                   |               |
| 300 mA                                            | 100 A | 5SU1674-7DK81                                                                     | 5SU1674-8DK81 | 5SU1674-7FK81  |  | –                                                                                   | 5SU1674-8EK81 |
|                                                   | 125 A | 5SU1674-7DK82                                                                     | –             | 5SU1674-7FK82  |  | 5SU1674-7EK82                                                                       | –             |

4

## Accessories

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

# 5SV1 RCBOs

Type A, 1P+N

|                                 |                              | Instantaneous                                                                     |               |                                                                                   |               | Short-time delayed [G],<br>Super resistant [K]                                      |               |
|---------------------------------|------------------------------|-----------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------|---------------|-------------------------------------------------------------------------------------|---------------|
|                                 |                              | 230 V AC                                                                          |               |                                                                                   |               | 230 V AC                                                                            |               |
| Mounting width                  |                              | 1 MW                                                                              |               | 1 MW                                                                              |               | 1 MW                                                                                |               |
| Short-circuit breaking capacity |                              | 4,5 kA                                                                            |               | 6 kA                                                                              |               | 6 kA                                                                                |               |
| N connection                    |                              | Right                                                                             |               | Right                                                                             |               | Right                                                                               |               |
|                                 |                              |  |               |  |               |  |               |
| $I_n$                           | Bulk packaging<br>(12 units) | Characteristic                                                                    |               | Characteristic                                                                    |               | Characteristic                                                                      |               |
|                                 |                              | B                                                                                 | C             | B                                                                                 | C             | B                                                                                   | C             |
|                                 |                              |                                                                                   |               |                                                                                   |               |                                                                                     |               |
| 2 A                             | –                            | –                                                                                 | 5SV1313-7KK02 | –                                                                                 | 5SV1316-7KK02 | –                                                                                   | –             |
| 4 A                             | –                            | –                                                                                 | 5SV1313-7KK04 | –                                                                                 | 5SV1316-7KK04 | –                                                                                   | –             |
| 6 A                             | –                            | 5SV1313-6KK06                                                                     | 5SV1313-7KK06 | 5SV1316-6KK06                                                                     | 5SV1316-7KK06 | 5SV1316-6LK06                                                                       | 5SV1316-7LK06 |
|                                 | ■                            | –                                                                                 | –             | 5SV1316-6GV06                                                                     | 5SV1316-7GV06 | –                                                                                   | –             |
| 10 A                            | –                            | 5SV1313-6KK10                                                                     | 5SV1313-7KK10 | 5SV1316-6KK10                                                                     | 5SV1316-7KK10 | 5SV1316-6LK10                                                                       | 5SV1316-7LK10 |
|                                 | ■                            | –                                                                                 | –             | 5SV1316-6GV10                                                                     | 5SV1316-7GV10 | –                                                                                   | –             |
| 13 A                            | –                            | 5SV1313-6KK13                                                                     | 5SV1313-7KK13 | 5SV1316-6KK13                                                                     | 5SV1316-7KK13 | 5SV1316-6LK13                                                                       | 5SV1316-7LK13 |
|                                 | ■                            | –                                                                                 | –             | 5SV1316-6GV13                                                                     | 5SV1316-7GV13 | –                                                                                   | –             |
| 16 A                            | –                            | 5SV1313-6KK16                                                                     | 5SV1313-7KK16 | 5SV1316-6KK16                                                                     | 5SV1316-7KK16 | 5SV1316-6LK16                                                                       | 5SV1316-7LK16 |
|                                 | ■                            | –                                                                                 | –             | 5SV1316-6GV16                                                                     | 5SV1316-7GV16 | –                                                                                   | –             |
| 2 A                             | –                            | –                                                                                 | 5SV1613-7KK02 | –                                                                                 | 5SV1616-7KK02 | –                                                                                   | –             |
| 4 A                             | –                            | –                                                                                 | 5SV1613-7KK04 | –                                                                                 | 5SV1616-7KK04 | –                                                                                   | –             |
| 6 A                             | –                            | 5SV1613-6KK06                                                                     | 5SV1613-7KK06 | 5SV1616-6KK06                                                                     | 5SV1616-7KK06 | –                                                                                   | –             |
| 10 A                            | –                            | 5SV1613-6KK10                                                                     | 5SV1613-7KK10 | 5SV1616-6KK10                                                                     | 5SV1616-7KK10 | –                                                                                   | –             |
| 13 A                            | –                            | 5SV1613-6KK13                                                                     | 5SV1613-7KK13 | 5SV1616-6KK13                                                                     | 5SV1616-7KK13 | –                                                                                   | –             |
| 16 A                            | –                            | 5SV1613-6KK16                                                                     | 5SV1613-7KK16 | 5SV1616-6KK16                                                                     | 5SV1616-7KK16 | –                                                                                   | –             |

## Type F and AC, 1P+N

|                                 |       |                              | Instantaneous<br>230 V AC                                                         |                                                                                   | Super resistant [K]<br>230 V AC                                                     |                     |               |
|---------------------------------|-------|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------|---------------|
| Mounting width                  |       |                              | 1 MW                                                                              | 1 MW                                                                              | 1 MW                                                                                |                     |               |
| Short-circuit breaking capacity |       |                              | 4.5 kA                                                                            | 6 kA                                                                              | 6 kA                                                                                |                     |               |
| N connection                    |       |                              | Right                                                                             | Right                                                                             | Right                                                                               |                     |               |
|                                 |       |                              |  |  |  |                     |               |
| $I_{\Delta n}$                  | $I_n$ | Bulk packaging<br>(12 units) | Characteristic<br>C                                                               | Characteristic<br>B                                                               | C                                                                                   | Characteristic<br>B | C             |
| Type F                          |       |                              |                                                                                   |                                                                                   |                                                                                     |                     |               |
| 30 mA                           | 6 A   | —                            | —                                                                                 | —                                                                                 | —                                                                                   | 5SV1316-3KK06       | 5SV1316-4KK06 |
|                                 | 10 A  | —                            | —                                                                                 | —                                                                                 | —                                                                                   | 5SV1316-3KK10       | 5SV1316-4KK10 |
|                                 | 13 A  | —                            | —                                                                                 | —                                                                                 | —                                                                                   | 5SV1316-3KK13       | 5SV1316-4KK13 |
|                                 | 16 A  | —                            | —                                                                                 | —                                                                                 | —                                                                                   | 5SV1316-3KK16       | 5SV1316-4KK16 |
| Type AC                         |       |                              |                                                                                   |                                                                                   |                                                                                     |                     |               |
| 30 mA                           | 2 A   | —                            | 5SV1313-1KK02                                                                     | —                                                                                 | 5SV1316-1KK02                                                                       | —                   | —             |
|                                 | 4 A   | —                            | 5SV1313-1KK04                                                                     | —                                                                                 | 5SV1316-1KK04                                                                       | —                   | —             |
|                                 | 6 A   | —                            | 5SV1313-1KK06                                                                     | 5SV1316-0KK06                                                                     | 5SV1316-1KK06                                                                       | —                   | —             |
|                                 | 10 A  | —                            | 5SV1313-1KK10                                                                     | 5SV1316-0KK10                                                                     | 5SV1316-1KK10                                                                       | —                   | —             |
|                                 |       | ■                            | 5SV1313-1GV10                                                                     | —                                                                                 | 5SV1316-1GV10                                                                       | —                   | —             |
|                                 | 13 A  | —                            | 5SV1313-1KK13                                                                     | 5SV1316-0KK13                                                                     | 5SV1316-1KK13                                                                       | —                   | —             |
|                                 | 16 A  | —                            | 5SV1313-1KK16                                                                     | 5SV1316-0KK16                                                                     | 5SV1316-1KK16                                                                       | —                   | —             |
|                                 |       | ■                            | 5SV1313-1GV16                                                                     | —                                                                                 | 5SV1316-1GV16                                                                       | —                   | —             |
| 300 mA                          | 2 A   | —                            | 5SV1613-1KK02                                                                     | —                                                                                 | 5SV1616-1KK02                                                                       | —                   | —             |
|                                 | 4 A   | —                            | 5SV1613-1KK04                                                                     | —                                                                                 | 5SV1616-1KK04                                                                       | —                   | —             |
|                                 | 6 A   | —                            | 5SV1613-1KK06                                                                     | 5SV1616-0KK06                                                                     | 5SV1616-1KK06                                                                       | —                   | —             |
|                                 | 10 A  | —                            | 5SV1613-1KK10                                                                     | 5SV1616-0KK10                                                                     | 5SV1616-1KK10                                                                       | —                   | —             |
|                                 | 13 A  | —                            | 5SV1613-1KK13                                                                     | 5SV1616-0KK13                                                                     | 5SV1616-1KK13                                                                       | —                   | —             |
|                                 | 16 A  | —                            | 5SV1613-1KK16                                                                     | 5SV1616-0KK16                                                                     | 5SV1616-1KK16                                                                       | —                   | —             |

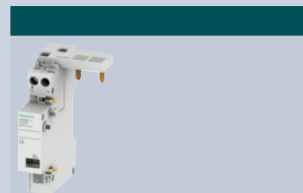
4

## Accessories

| Auxiliary switches (AS)                              |                                   |  | Article No.   |
|------------------------------------------------------|-----------------------------------|--|---------------|
| 1 NO + 1 NC                                          | Standard                          |  | 5ST3010       |
|                                                      | For low power                     |  | 5ST3013       |
|                                                      | For low power (with diode)        |  | 5ST3013-0XX01 |
| 2 NO                                                 | Standard                          |  | 5ST3011       |
|                                                      | For low power                     |  | 5ST3014       |
| 2 NC                                                 | Standard                          |  | 5ST3012       |
|                                                      | For low power                     |  | 5ST3015       |
| 1 CO                                                 | Standard                          |  | 5ST3016       |
| Fault signal contacts (FC)                           |                                   |  | Article No.   |
| 1 NO + 1 NC                                          |                                   |  | 5ST3020       |
| 2 NO                                                 |                                   |  | 5ST3021       |
| 2 NC                                                 |                                   |  | 5ST3022       |
| Auxiliary switches and fault signal contacts (AS+FC) |                                   |  | Article No.   |
| 1 CO (AS) + 1 CO (FC)                                |                                   |  | 5ST3062       |
| 5ST3 COM (AS+FC)                                     |                                   |  | 5ST3062-0MC   |
| Remote control mechanisms (RC mech.)                 |                                   |  | Article No.   |
| Basic                                                | 12 ... 30 V AC, 12 ... 48 V DC    |  | 5ST3053       |
|                                                      | 177 ... 270 V AC                  |  | 5ST3054       |
| Power                                                | 12 ... 30 V AC, 12 ... 48 V DC    |  | 5ST3055       |
|                                                      | 177 ... 270 V AC                  |  | 5ST3056       |
| Power with ARD                                       | 12 ... 30 V AC, 12 ... 48 V DC    |  | 5ST3057       |
|                                                      | 177 ... 270 V AC                  |  | 5ST3058       |
| Power with extended function                         | 12 ... 30 V AC, 12 ... 48 V DC    |  | 5ST3070       |
|                                                      | 170 ... 277 V AC, 77 ... 286 V DC |  | 5ST3071       |
| Adapters for remote control mechanisms (RC mech.)    |                                   |  | Article No.   |
| 1 MW                                                 |                                   |  | 5ST3820-6     |
| Arc fault detection units (AFDD)                     |                                   |  | Article No.   |
| For 5SV1 basic units                                 | $I_n$ up to 16 A                  |  | 5SM6011-2     |

# 5SM6 arc fault detection units

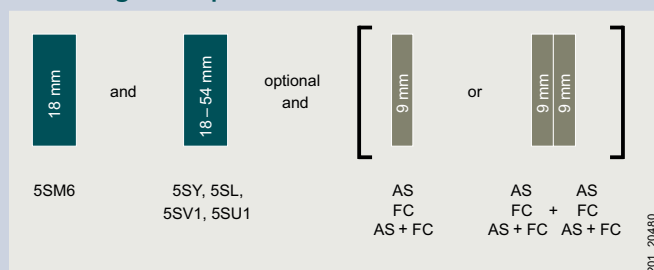
For combination with an MCB or RCBO



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

<sup>1)</sup> Not suitable for use with 5SY5 or 5SY8

## Mounting concept



AS Auxiliary switch [See page 4/58](#)  
 FC Fault signal contact [See page 4/60](#)  
 AS+FC Auxiliary switch and fault signal contact [See page 4/61](#)

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

## Accessories

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

See suitable busbars, from page 4/70 onwards

See suitable terminals and end caps, from page 4/70 onwards

# 5SV6 AFDD/MCB

Mounting width

1 MW

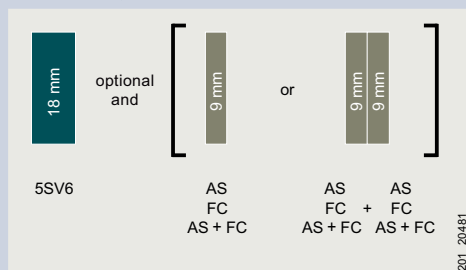
1 MW pigtail



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

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## Mounting concept



AS Auxiliary switch

FC Fault signal contact

AS+FC Auxiliary switch and fault signal contact

[See page 4/58](#)[See page 4/60](#)[See page 4/61](#)

## Accessories

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

See suitable busbars, from page 4/70 onwards

See suitable terminals and end caps, from page 4/70 onwards

# 5SV6 COM AFDD/MCB

With communication and measuring function

Mounting width 1 MW



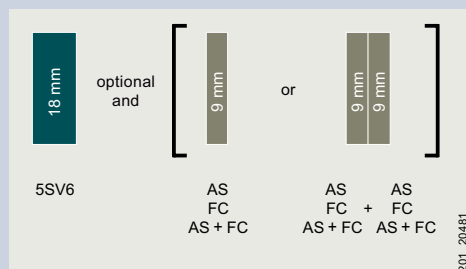
| Rated current $I_n$ | Characteristic |               |
|---------------------|----------------|---------------|
|                     | B              | C             |
| 6 A                 | 5SV6016-6MC06  | 5SV6016-7MC06 |
| 10 A                | 5SV6016-6MC10  | 5SV6016-7MC10 |
| 13 A         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

## Note:

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

[www.siemens.com/lowvoltage/certificates](http://www.siemens.com/lowvoltage/certificates) (109801197)

## Mounting concept



AS Auxiliary switch [See page 4/58](#)  
 FC Fault signal contact [See page 4/60](#)  
 AS+FC Auxiliary switch and fault signal contact [See page 4/61](#)

## Accessories

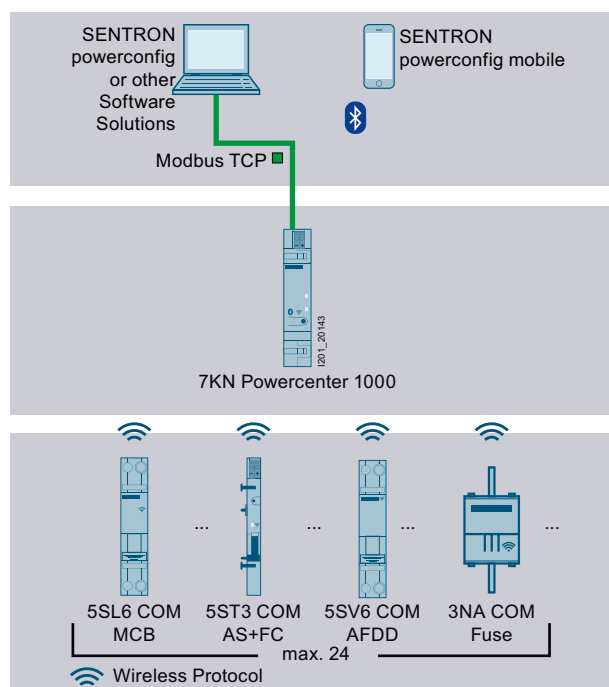
| Auxiliary switches (AS)                              |                            | Article No.   |
|------------------------------------------------------|----------------------------|---------------|
| 1 NO + 1 NC                                          | Standard                   | 5ST3010   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

See suitable busbars, from page 4/75 onwards

See suitable terminals and end caps, from page 4/72 onwards



## 7KN Powercenter 1000 data transceiver



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



7KN Powercenter 1000

Article No.

7KN1110-0MC00

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You will find further information at  
[www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

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



System Manual – SENTRON circuit  
 protection devices with communica-  
 tion and measuring function  
 (109791806)



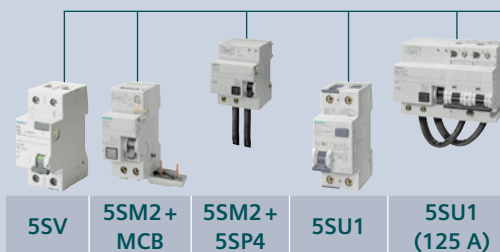
## Monitoring functions with limit monitoring

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

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

# Overview of the modular system

## Residual current protective devices



### 5SM6 arc fault detection units



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

### Auxiliary switches (AS)



|             |                            | Article No.   |
|-------------|----------------------------|---------------|
| 1 NO + 1 NC | Standard                   | 5ST3010       |
|             | For low power              | 5ST3013       |
|             | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO        | Standard                   | 5ST3011       |
|             | For low power              | 5ST3014       |
| 2 NC        | Standard                   | 5ST3012       |
|             | For low power              | 5ST3015       |
| 1 CO        | Standard                   | 5ST3016       |
|             |                            | 5ST1010-0FP   |

### Fault signal contacts (FC)



|             |  | Article No. |
|-------------|--|-------------|
| 1 NO + 1 NC |  | 5ST3020     |
| 2 NO        |  | 5ST3021     |
| 2 NC        |  | 5ST3022     |

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



|                       |                                           | Article No. |
|-----------------------|-------------------------------------------|-------------|
| 1 CO (AS) + 1 CO (FC) | Standard                                  | 5ST3062     |
| 5ST3 COM (AS+FC)      | With communication and measuring function | 5ST3062-0MC |

### Shunt trips (ST)



|                                    | Article No.   |
|------------------------------------|---------------|
| 110 ... 415 V AC, 110 ... 220 V DC | 5ST3030       |
| 24 ... 48 V AC/DC                  | 5ST3031       |
| 12 V DC                            | 5ST3031-0XX01 |

### Undervoltage releases (UR)



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

### Remote control mechanisms (RC mech.)



|                              |                                   | Article No. |
|------------------------------|-----------------------------------|-------------|
| Basic                        | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053     |
|                              | 177 ... 270 V AC                  | 5ST3054     |
| Power                        | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055     |
|                              | 177 ... 270 V AC                  | 5ST3056     |
| Power with ARD               | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057     |
|                              | 177 ... 270 V AC                  | 5ST3058     |
| Power with extended function | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070     |
|                              | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071     |

### Standard busbars



|               | Article No. |
|---------------|-------------|
| Cannot be cut | 5ST36..     |
| Can be cut    | 5ST37..     |

### Compact busbars



|               | Article No. |
|---------------|-------------|
| Cannot be cut | 5ST36..     |
| Can be cut    | 5ST37..     |

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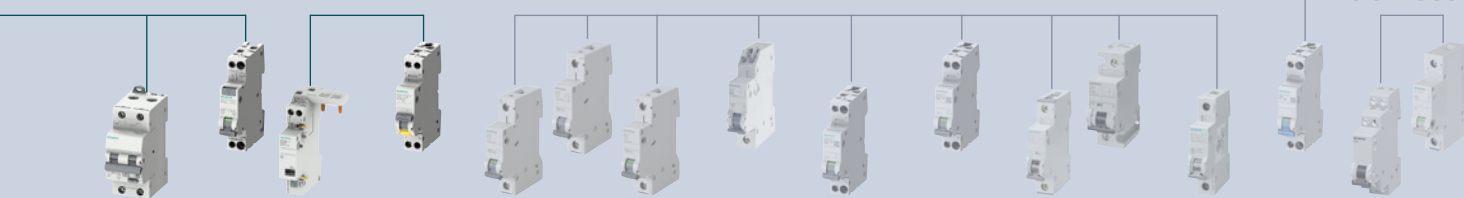
■ Suitable for all versions

□ Suitable for some versions

## Arc fault detection devices

## Miniature circuit breakers

Circuit breakers for equipment  
Switching devices



| 5SU1...<br>FP/FR | 5SV1 | 5SM6 | 5SV6/<br>5SV6 COM | 5SL3           | 5SL6 | 5SL4 | 5SJ6...-KS | 5SL30 | 5SL60/<br>5SL6 COM | 5SY | 5SP4/<br>5SP5 | 5SJ4...HG.. | 5SY17                | 5TE8             | 5TL |
|------------------|------|------|-------------------|----------------|------|------|------------|-------|--------------------|-----|---------------|-------------|----------------------|------------------|-----|
| -                | -    | -    | -                 | -              | -    | □    | -          | -     | -                  | □   | -             | -           | -                    | -                | -   |
| -                | ■    | -    | -                 | -              | -    | -    | -          | -     | □                  | -   | -             | -           | -                    | -                | -   |
| -                | -    | -    | -                 | -              | -    | □    | -          | -     | -                  | □   | -             | -           | -                    | -                | -   |
| -                | ■    | -    | -                 | -              | -    | -    | -          | -     | □                  | -   | -             | -           | -                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | ...OHG      | ■                    | ■                | ■   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | ■                | ■   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | ■                | ■   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | ...OHG      | ■                    | ■                | ■   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | ■                | ■   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | ...OHG      | ■                    | ■                | ■   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | ■                | ■   |
| ■                | -    | -    | -                 | -              | -    | -    | -          | -     | -                  | -   | -             | -           | -                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | ...OHG      | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | ...OHG      | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | ...OHG      | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| -                | ■    | □    | ■                 | ■              | ■    | ■    | -          | ■     | ■                  | ■   | ■             | -           | ■                    | -                | -   |
| ■                | ■    | □    | ■                 | ■              | ■    | ■    | ■          | ■     | ■                  | ■   | ■             | ■           | ■                    | □                | ■   |
| ■                | ■    | □    | ■                 | ■              | ■    | ■    | ■          | ■     | ■                  | ■   | ■             | ■           | ■                    | □                | ■   |
| -                | ■    | ■    | ■                 | □              | □    | □    | -          | ■     | ■                  | -   | -             | -           | ■                    | -                | -   |
| -                | ■    | ■    | ■                 | □              | □    | □    | -          | ■     | ■                  | -   | -             | -           | -                    | -                | -   |
| From page 4/52   |      |      |                   | From page 3/12 |      |      |            |       |                    |     |               |             | From<br>page<br>3/42 | From<br>page 5/6 |     |

# Electrical accessories

## Auxiliary switches (AS)



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

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

<sup>1)</sup> 5ST3805-1 handle coupler required

## Further technical specifications

| Further technical specifications                       |                         | 5ST3010,<br>5ST3011,<br>5ST3012,<br>5ST3016          | 5ST3010-2,<br>5ST3011-2,<br>5ST3012-2                              | 5ST3013,<br>5ST3014,<br>5ST3015,<br>5ST3013-0XX01 <sup>1)</sup> | 5ST3013-2,<br>5ST3014-2,<br>5ST3015-2 | 5SW3330                    | 5ST1010-0FP      |  |
|--------------------------------------------------------|-------------------------|------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------------|----------------------------|------------------|--|
| Standards                                              |                         |                                                      |                                                                    |                                                                 |                                       |                            |                  |  |
| Standards                                              |                         | IEC/EN<br>UL, CSA                                    | IEC/EN 62019, IEC/EN 60947-5-1<br>UL 1077,<br>CSA C22.2<br>No. 235 |                                                                 |                                       | IEC/EN 62019               |                  |  |
| Contacts                                               |                         |                                                      |                                                                    |                                                                 |                                       |                            |                  |  |
| Minimum contact load                                   |                         | 50 mA,<br>24 V                                       |                                                                    | 1 mA,<br>5 V DC                                                 | 5 mA,<br>5 V DC                       | 50 mA,<br>24 V             | 5 mA,<br>24 V DC |  |
| Maximum contact load                                   |                         | –                                                    |                                                                    | 100 mA,<br>30 V DC                                              | 50 mA,<br>30 V DC                     | –                          |                  |  |
| Contact load acc. to IEC/EN 62019 and IEC/EN 60947-5-1 | 230 V AC, AC-12         | –                                                    |                                                                    |                                                                 | 5/–                                   |                            | 6 A/–            |  |
|                                                        | 230 V AC, AC-13         | 6 A/6 A                                              |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | 400 V AC, AC-13         | 2 A/2 A                                              |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | 230 V AC, AC-14         | 6 A/6 A                                              |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | 400 V AC, AC-14         | 2 A/2 A                                              |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | 24 V DC, DC-13          | 6 A/3 A                                              |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | 30 V DC, DC-14          | –                                                    |                                                                    |                                                                 | 0.1 A                                 | –                          |                  |  |
|                                                        | 60 V DC, DC-13          | 3 A/1.5 A                                            |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | 110 V DC, DC-13         | 1 A/0.75 A                                           |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | 220 V DC, DC-12         | –                                                    |                                                                    |                                                                 | 0.5/–                                 | 1 A/–                      |                  |  |
|                                                        | 220 V DC, DC-13         | 1 A/0.5 A                                            |                                                                    |                                                                 | –                                     |                            |                  |  |
|                                                        | Contact load acc. to UL | 120 V AC                                             | –                                                                  |                                                                 |                                       |                            |                  |  |
| 125 V AC                                               |                         | 3 A                                                  | –                                                                  |                                                                 |                                       |                            |                  |  |
| 240 V AC                                               |                         | 4 A                                                  | –                                                                  |                                                                 |                                       |                            |                  |  |
| 277 V AC                                               |                         | –                                                    |                                                                    |                                                                 |                                       |                            |                  |  |
| 480 V AC                                               |                         | –                                                    |                                                                    |                                                                 |                                       |                            |                  |  |
| 60 V DC                                                |                         | –                                                    |                                                                    |                                                                 |                                       |                            |                  |  |
| 125 V DC                                               |                         | 1.1 A                                                | –                                                                  |                                                                 |                                       |                            |                  |  |
| 250 V DC                                               |                         | 0.55 A                                               | –                                                                  |                                                                 |                                       |                            |                  |  |
| Service life, on average, with rated load              | Actuations              | 20000                                                |                                                                    |                                                                 |                                       | –                          | 8000             |  |
| Safety                                                 |                         |                                                      |                                                                    |                                                                 |                                       |                            |                  |  |
| Short-circuit protection                               |                         | Miniature circuit breakers 5SY... 6 A or gG 6 A fuse |                                                                    |                                                                 |                                       | B6 or C6 or gL/gG 6 A fuse |                  |  |
| Connections                                            |                         |                                                      |                                                                    |                                                                 |                                       |                            |                  |  |
| Conductor cross-sections                               |                         | 0.5 ... 2.5 mm² (AWG 22 ... 14)                      |                                                                    |                                                                 |                                       | 0.75 ... 2.5 mm²           |                  |  |
| Terminals                                              | Max. tightening torque  | 0.5 Nm (4.5 lb-in)                                   |                                                                    |                                                                 |                                       | –                          | 0.6 Nm           |  |
| Ambient conditions                                     |                         |                                                      |                                                                    |                                                                 |                                       |                            |                  |  |
| Permissible ambient temperature                        |                         | –40 ... +70 °C                                       |                                                                    |                                                                 |                                       | –25 ... +60 °C             |                  |  |
| Permissible storage temperature                        |                         | –40 ... +75 °C                                       |                                                                    |                                                                 |                                       | –40 ... +70 °C             |                  |  |
| Resistance to climate                                  | Acc. to IEC 60068-2-30  | 28 cycles                                            |                                                                    |                                                                 |                                       |                            |                  |  |
| Mounting position                                      |                         | Any                                                  |                                                                    |                                                                 |                                       |                            |                  |  |
| Shock at 11 ms half-sine                               | Acc. to IEC 60068-2-27  | 150 m/s²                                             |                                                                    |                                                                 |                                       |                            | –                |  |
| Resistance to vibrations at 10 ... 150 Hz              | Acc. to IEC 60068-2-6   | 50 m/s²                                              |                                                                    |                                                                 |                                       |                            | –                |  |

<sup>1)</sup> No approvals

# Electrical accessories

## Fault signal contacts (FC)



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

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

<sup>1)</sup> 5ST3805-1 handle coupler required

## Further technical specifications

| Standards                                          |                        |                                             |   |
|----------------------------------------------------|------------------------|---------------------------------------------|---|
| Standards                                          | IEC/EN                 | IEC/EN 62019, IEC/EN 60947-5-1              |   |
|                                                    | UL, CSA                | UL 1077, CSA C22.2 No. 235                  | – |
| Contacts                                           |                        |                                             |   |
| Minimum contact load                               |                        | 50 mA, 24 V                                 |   |
| Contact load acc. to IEC/EN 62019/IEC/EN 60947-5-1 | 230 V AC, AC-13        | 6 A/6 A                                     |   |
|                                                    | 400 V AC, AC-13        | 6 A/6 A                                     |   |
|                                                    | 230 V AC, AC-14        | 2 A/2A                                      |   |
|                                                    | 400 V AC, AC-14        | 2 A/2A                                      |   |
|                                                    | 24 V DC, DC-13         | 6 A/3 A                                     |   |
|                                                    | 60 V DC, DC-13         | 3 A/1.5 A                                   |   |
|                                                    | 110 V DC, DC-13        | 1 A/0.75 A                                  |   |
|                                                    | 220 V DC, DC-13        | 1 A/0.5 A                                   |   |
| Contact load acc. to UL                            | 120 V AC               | –                                           |   |
|                                                    | 125 V AC               | 3 A                                         | – |
|                                                    | 240 V AC               | 4 A                                         | – |
|                                                    | 277 V AC               | –                                           |   |
|                                                    | 480 V AC               | 1.5 A                                       | – |
|                                                    | 60 V DC                | –                                           |   |
|                                                    | 125 V DC               | 1.1 A                                       | – |
|                                                    | 250 V DC               | 0.55 A                                      | – |
| Service life, on average, with rated load          | Actuations             | 20000                                       |   |
| Safety                                             |                        |                                             |   |
| Short-circuit protection                           |                        | Miniature circuit breaker or gG 6 A fuse    |   |
| Connections                                        |                        |                                             |   |
| Conductor cross-sections                           |                        | 0.5 ... 2.5 mm <sup>2</sup> (AWG 22 ... 14) |   |
| Terminals                                          | Max. tightening torque | 0.5 Nm (4.5 lb-in)                          |   |
| Ambient conditions                                 |                        |                                             |   |
| Permissible ambient temperature                    |                        | –25 ... +55 °C                              |   |
| Permissible storage temperature                    |                        | –40 ... +75 °C                              |   |
| Resistance to climate                              | Acc. to IEC 60068-2-30 | 28 cycles                                   |   |
| Mounting position                                  |                        | Any                                         |   |
| Shock at 11 ms half-sine                           | Acc. to IEC 60068-2-27 | 150 m/s <sup>2</sup>                        |   |
| Resistance to vibration at 10 ... 150 Hz           | Acc. to IEC 60068-2-6  | 50 m/s <sup>2</sup>                         |   |

**5ST3020,  
5ST3021,  
5ST3022**

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



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

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

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

<sup>1)</sup> 5ST3805-1 handle coupler required

### Further technical specifications

5ST3062

|                                                             |                        |                                                              |
|-------------------------------------------------------------|------------------------|--------------------------------------------------------------|
| <b>Standards</b>                                            |                        |                                                              |
| Standards                                                   | IEC/EN<br>UL, CSA      | IEC/EN 62019, IEC/EN 60947-5-1<br>UL 1077, CSA C22.2 No. 235 |
| <b>Contacts</b>                                             |                        |                                                              |
| Minimum contact load                                        |                        | 50 mA, 24 V                                                  |
| Maximum contact load                                        |                        | –                                                            |
| Contact load according to IEC/EN 62019/<br>IEC/EN 60947-5-1 | 230 V AC, AC-13        | 6 A/6 A                                                      |
|                                                             | 400 V AC, AC-14        | 2 A/2 A                                                      |
| Contact load according to IEC/EN 62019/<br>IEC/EN 60947-5-1 | 24 V DC, DC-13         | 3 A/3 A                                                      |
|                                                             | 60 V DC, DC-13         | 3 A/1 A                                                      |
|                                                             | 110 V DC, DC-13        | 0.5 A/0.5 A                                                  |
|                                                             | 220 V DC, DC-13        | 0.5 A/0.3 A                                                  |
| Contact load acc. to UL                                     | 125 V AC               | 2 A                                                          |
|                                                             | 240 V AC               | 1.5 A                                                        |
|                                                             | 480 V AC               | 0.75 A                                                       |
|                                                             | 125 V DC               | 0.5 A                                                        |
|                                                             | 250 V DC               | 0.3 A                                                        |
| Service life, on average, with rated load                   | Actuations             | 20000                                                        |
| <b>Safety</b>                                               |                        |                                                              |
| Short-circuit protection                                    |                        | Miniature circuit breaker or gG 6 A fuse                     |
| <b>Connections</b>                                          |                        |                                                              |
| Conductor cross-sections                                    |                        | 0.5 ... 2.5 mm <sup>2</sup> (AWG 22 ... 14)                  |
| Terminals                                                   | Max. tightening torque | 0.5 Nm (4.5 lb-in)                                           |
| <b>Ambient conditions</b>                                   |                        |                                                              |
| Permissible ambient temperature                             |                        | –25 ... +55 °C                                               |
| Permissible storage temperature                             |                        | –40 ... +75 °C                                               |
| Resistance to climate                                       | Acc. to IEC 60068-2-30 | 28 cycles                                                    |
| Mounting position                                           |                        | Any                                                          |
| Shock at 11 ms half-sine                                    | Acc. to IEC 60068-2-27 | 150 m/s <sup>2</sup>                                         |
| Resistance to vibrations at 10 ... 150 Hz                   | Acc. to IEC 60068-2-6  | 50 m/s <sup>2</sup>                                          |

# Electrical accessories



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

- Reports the switching state of the mounted standard circuit protection device (ON, tripped, manual OFF, tripped with locked handle)
- Measures the temperature of the device and counts operating cycles, trips and operating hours
- Communication via radio to 7KN Powercenter 1000 data transceiver
- Plug-in terminals for 24 V DC power supply incl. daisy chain function
- Low space requirements of 0.5 MW (9 mm)

| For combining with basic units                                                                                 | Miniature circuit breakers | Circuit breakers for equipment | RCCBs                     | RCBOs | Arc fault detection devices | Communication                      | Mounting width (1 MW = 18 mm) | Article No. |
|----------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|---------------------------|-------|-----------------------------|------------------------------------|-------------------------------|-------------|
| <b>5ST3 COM auxiliary switches and fault signal contacts (AS+FC) with communication and measuring function</b> |                            |                                |                           |       |                             |                                    |                               |             |
| 5SL, 5SY, 5SP4, 5SP5                                                                                           | 5SY17                      | 5SV                            | 5SU1 <sup>1)</sup> , 5SV1 | 5SV6  |                             | Radio link to 7KN Powercenter 1000 | 0.5 MW                        | 5ST3062-0MC |

<sup>1)</sup> 5ST3805-1 handle coupler required

### Note:

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

[www.siemens.com/lowvoltage/certificates \(109801197\)](http://www.siemens.com/lowvoltage/certificates (109801197))

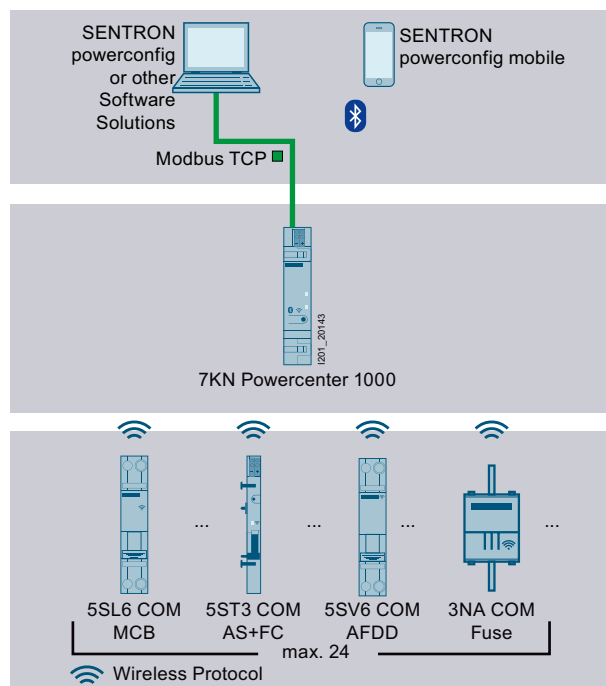
### Further technical specifications

#### 5ST3062-0MC

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



## 7KN Powercenter 1000 data transceiver



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



7KN Powercenter 1000

Article No.

7KN1110-0MC00

See page 10/20

You will find further information at [www.siemens.com/lowvoltage/manuals](http://www.siemens.com/lowvoltage/manuals)

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



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



# Electrical accessories

## Shunt trips (ST)



- For remote-controlled tripping of the mounted device

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

<sup>1)</sup> 5ST3805-1 handle coupler required

4

### Further technical specifications

| Further technical specifications          |                        | 5ST3030                                          | 5ST3031             | 5ST3031-0XX01  |
|-------------------------------------------|------------------------|--------------------------------------------------|---------------------|----------------|
| Standards                                 |                        |                                                  |                     |                |
| Standards                                 | IEC/EN                 | EN 60947-1                                       |                     |                |
| Supply                                    |                        |                                                  |                     |                |
| Primary operating range                   |                        | 0.7 ... 1.1 × U <sub>n</sub>                     |                     |                |
| Rated frequency f <sub>n</sub>            |                        | 50 ... 60 Hz                                     |                     | –              |
| Contacts                                  |                        |                                                  |                     |                |
| Minimum contact load                      |                        | 50 mA, 24 V                                      |                     | 1 mA, 5 V      |
| Tripping operations                       |                        | Max. 2000                                        |                     |                |
| Service life, on average, with rated load |                        | Actuations                                       | 20000               |                |
| Safety                                    |                        |                                                  |                     |                |
| Short-circuit protection                  |                        | Miniature circuit breaker B/C 6 A or fuse gG 6 A |                     |                |
| Connections                               |                        |                                                  |                     |                |
| Conductor cross-sections                  |                        | 0.5 ... 2.5 mm <sup>2</sup> (AWG 22 ... 14)      |                     |                |
| Terminals                                 | Max. tightening torque | 0.8 Nm (6.8 lb-in)                               |                     |                |
| Ambient conditions                        |                        |                                                  |                     |                |
| Permissible ambient temperature           |                        | –25 ... +55 °C                                   |                     | –40 ... +70 °C |
| Permissible storage temperature           |                        | –40 ... +75 °C                                   |                     |                |
| Resistance to climate                     | Acc. to IEC 60068-2-30 | 28 cycles                                        |                     |                |
| Mounting position                         |                        | Any                                              |                     |                |
| Shock at 11 ms half-sine                  | Acc. to IEC 60068-2-27 | 150 m/s <sup>2</sup>                             |                     |                |
| Resistance to vibrations at 10 ... 150 Hz |                        | Acc. to IEC 60068-2-6                            | 50 m/s <sup>2</sup> |                |



## Undervoltage releases (UR)

- Are integrated (e.g. in EMERGENCY-OFF loops), thus ensuring that the MCB trips in the event of an emergency. EMERGENCY-OFF is a function provided to disconnect the electricity supply to all or some parts of the installation in case of emergency, when there is a risk of electric shock or any other hazard caused by electrical power
- In addition, an undervoltage release also trips if the voltage is interrupted or too low, or prevents the MCB from closing
- Combination with 5SV RCCB not suitable for implementation of EMERGENCY-OFF/ EMERGENCY-STOP circuits

| For combining with basic units      |       |                    | Rated operational voltage $U_e$ | Mounting width (1 MW = 18 mm) | Article No. |
|-------------------------------------|-------|--------------------|---------------------------------|-------------------------------|-------------|
| Miniature circuit breakers          | RCCBs | RCBOs              |                                 |                               |             |
| With integrated auxiliary switch    |       |                    |                                 |                               |             |
| 5SL4, 5SY, 5SP4, 5SP5               | 5SV   | 5SU1 <sup>1)</sup> | 230 V AC                        | 1 MW                          | 5ST3040     |
|                                     |       |                    | 110 V DC                        | 1 MW                          | 5ST3041     |
|                                     |       |                    | 24 V DC                         | 1 MW                          | 5ST3042     |
| Without integrated auxiliary switch |       |                    |                                 |                               |             |
| 5SL4, 5SY, 5SP4, 5SP5               | 5SV   | 5SU1 <sup>1)</sup> | 230 V AC                        | 1 MW                          | 5ST3043     |
|                                     |       |                    | 110 V DC                        | 1 MW                          | 5ST3044     |
|                                     |       |                    | 24 V DC                         | 1 MW                          | 5ST3045     |

<sup>1)</sup> 5ST3805-1 handle coupler required

## Further technical specifications

### 5ST304.

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

# Electrical accessories



## 5ST3 remote control 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 control mechanism | Display | Ambient temperature | Vibration and shock requirements   | Rated operational voltage $U_e$   | Mounting width (1 MW = 18 mm) | Article No. |
|----------------------------------|---------|---------------------|------------------------------------|-----------------------------------|-------------------------------|-------------|
| Basic                            | –       | –25 °C ... +45 °C   | –                                  | 12 ... 30 V AC, 12 ... 48 V DC    | 1.5 MW                        | 5ST3053     |
|                                  |         |                     |                                    | 177 ... 270 V AC                  | 2 MW                          | 5ST3054     |
| Power                            | LED     | –25 °C ... +45 °C   | –                                  | 12 ... 30 V AC, 12 ... 48 V DC    | 2 MW                          | 5ST3055     |
|                                  |         |                     |                                    | 177 ... 270 V AC                  | 2 MW                          | 5ST3056     |
| Power with ARD                   | LED     | –25 °C ... +45 °C   | –                                  | 12 ... 30 V AC, 12 ... 48 V DC    | 2 MW                          | 5ST3057     |
|                                  |         |                     |                                    | 177 ... 270 V AC                  | 2 MW                          | 5ST3058     |
| Power with extended function     | LED     | –40 °C ... +70 °C   | Acc. to EN 61373/<br>EN 50155 "1B" | 12 ... 30 V AC, 12 ... 48 V DC    | 2 MW                          | 5ST3070     |
|                                  |         |                     |                                    | 170 ... 277 V AC, 77 ... 286 V DC | 2 MW                          | 5ST3071     |

### Further technical specifications

| Further technical specifications                 |  | 5ST3053                         | 5ST3054 | 5ST3055         | 5ST3056 | 5ST3057 | 5ST3058 | 5ST3070        | 5ST3071                     |
|--------------------------------------------------|--|---------------------------------|---------|-----------------|---------|---------|---------|----------------|-----------------------------|
| Standards                                        |  |                                 |         |                 |         |         |         |                |                             |
| Standards                                        |  | EN 50557 (VDE 0640-20)          |         |                 |         |         |         |                |                             |
| Supply                                           |  |                                 |         |                 |         |         |         |                |                             |
| Rated frequency $f_n$                            |  | 50 ... 60 Hz                    |         |                 |         |         |         |                |                             |
| Rated power dissipation on standby               |  | ≤1 VA                           |         |                 |         |         |         |                |                             |
| Contacts                                         |  |                                 |         |                 |         |         |         |                |                             |
| Service life, on average, with rated load        |  | Actuations                      | 10000   |                 |         |         |         |                |                             |
| Number of remote switching operations per minute |  | 2                               |         |                 |         |         |         |                |                             |
| Number of automatic reclose attempts             |  | –                               |         |                 |         | 3       |         | –              |                             |
| Cable length in the control circuit              |  | ≤1500 m                         |         |                 |         |         |         |                | ≤1500 m (DC)<br>≤200 m (AC) |
| Sliding selector with locking device             |  | –                               | ■       |                 |         |         |         |                |                             |
| Integrated auxiliary switches                    |  | –                               |         | 1CO; 2 A; 250 V |         |         |         |                |                             |
| Integrated fault signal contacts                 |  | –                               |         | 1CO; 2 A; 250 V |         |         |         |                |                             |
| Connections                                      |  |                                 |         |                 |         |         |         |                |                             |
| Conductor cross-sections                         |  | 0.5 ... 1.5 mm² (AWG 14 ... 30) |         |                 |         |         |         |                |                             |
| Terminal tightening torque                       |  | 0.2 ... 0.25 Nm (2.0 lb-in)     |         |                 |         |         |         |                |                             |
| Ambient conditions                               |  |                                 |         |                 |         |         |         |                |                             |
| Permissible storage temperature                  |  | –40 ... +55 °C                  |         |                 |         |         |         | –40 ... +70 °C |                             |
| Degree of protection                             |  | IP20                            |         |                 |         |         |         |                |                             |
| Degree of pollution for overvoltage category     |  | 3/II                            |         |                 |         |         |         |                |                             |

### Suitable adapters for combination with basic units



| Basic units   | Mounting width |      |      |      |        |        |        | Article No.           |
|---------------|----------------|------|------|------|--------|--------|--------|-----------------------|
|               | 1 MW           | 2 MW | 3 MW | 4 MW | 2-pole | 3-pole | 4-pole |                       |
| 5SU1          | –              | ■    | ■    | –    | –      | –      | –      | 5ST3820-5             |
| 5SV1          | ■              | –    | –    | –    | –      | –      | –      | 5ST3820-6             |
| 5SV3          | –              | ■    | –    | ■    | –      | –      | –      | 5ST3820-6             |
| 5SM2 with 5SY | –              | –    | –    | –    | ■      | –      | –      | 5ST3820-3 + 5ST3820-1 |
|               | –              | –    | –    | –    | –      | ■      | ■      | 5ST3820-3 + 5ST3820-2 |
| 5SM2 with 5SL | –              | –    | –    | –    | ■      | –      | –      | 5ST3820-3 + 5ST3820-6 |
|               | –              | –    | –    | –    | –      | ■      | ■      | 5ST3820-3 + 5ST3820-7 |

# Mechanical accessories

## Handle couplers for additional components



- Necessary for mounting the additional components auxiliary switches, fault signal contacts, shunt trips and undervoltage releases onto the 5SU1 RCBO
- 1 set = 5 units

Article No.

5ST3805-1

## Handle locking devices



- To prevent undesired mechanical ON/OFF switching
- Sealable and lockable
- For padlock with 3 ... 6 mm shackle

### Version

For 5SV RCCBs, 5SV1 RCBOs, 5SV6 AFDD/MCB

Article No.

5ST3806



For 5SU1 RCBOs

5ST3801-1

## Locking device

- For 5SV RCCBs, 5SV1 RCBOs, 5SV6 AFDD/MCB

### Comprising

5ST3806 handle locking device and 5ST3802 padlock

Article No.

5ST3807

## Padlock

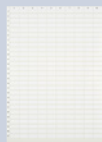


- For 5ST3801-1 and 5ST3806 handle locking devices and 5ST3054 ... 58, 5ST3070 remote control mechanisms

Article No.

5ST3802

## Device labels



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

### Types

15 mm x 6 mm, white (WIN 098)

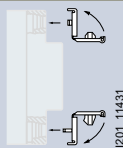
Article No.

8WH8210-0AA35

15 mm x 6 mm, yellow (WIN 099)

8WH8210-0AA36

## Covers for connection terminals



- For 5SV3 and 5SV4 residual current operated circuit breakers, sealable (2 units in plastic bag)

### Mounting width

2 MW

Article No.

5SW3010

4 MW

5SW3008

## Terminal covers, gray



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

### For width up to

2.5 MW

Article No.

5SW3004

4.5 MW

5SW3005

## Wall enclosures, gray



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

### For width up to

2.5 MW

Article No.

5SW3006

4.5 MW

5SW3007

# RCCB protective socket outlets

Acc. to VDE 0664

## Covers



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

| Comprising                  | Article No. |
|-----------------------------|-------------|
| End plates                  | 5ST2134     |
| Angled profile              | 5ST2135     |
| Flat profile as alternative | 5ST2136     |

## RCCB protective socket outlets in molded-plastic enclosures



- Equipped with RCCB and flush-mounted SCHUKO® socket outlet
- IP54 degree of protection

| Rated residual current $I_{\Delta n}$ | Rated current $I_n$ | Article No. |
|---------------------------------------|---------------------|-------------|
| 10 mA                                 | 16 A                | 5SZ9206     |
| 30 mA                                 | 16 A                | 5SZ9216     |



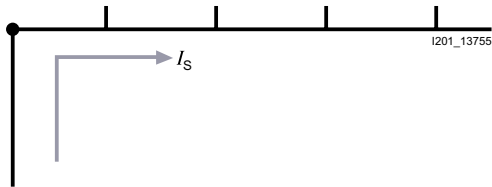
# Standard busbars

## General information



### Infeed

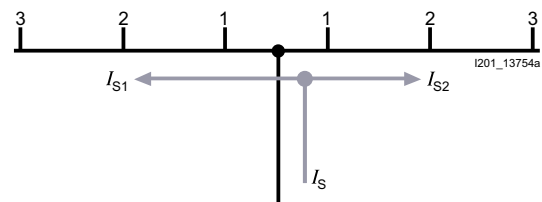
#### At the start or end of the busbar



Maximum busbar current  $I_s$ /phase

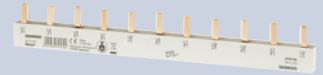
- Cross-section 10 mm<sup>2</sup>: 63 A
- Cross-section 16 mm<sup>2</sup>: 80 A

#### Along the busbar or midpoint infeed



Maximum busbar current  $I_s$ /phase

- Cross-section 10 mm<sup>2</sup>: 100 A
- Cross-section 16 mm<sup>2</sup>: 130 A

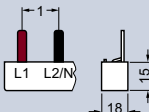
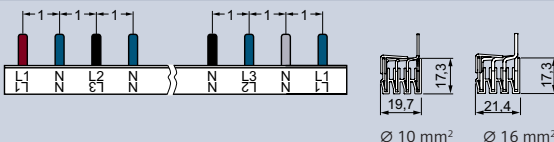
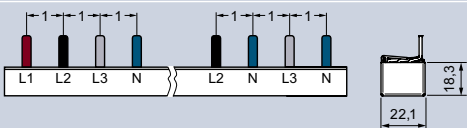


## Fixed lengths, cannot be cut

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

# Standard busbars

Can be cut

| Pin spacing in MW<br>(1 MW = 18 mm)                                               | Application                                           | No. of MW | Length  | End caps<br>included | Conductor cross-section |             |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|-----------|---------|----------------------|-------------------------|-------------|
|                                                                                   |                                                       |           |         |                      | 10 mm²                  | 16 mm²      |
| 2-phase/1-phase + N                                                               |                                                       |           |         |                      | Article No.             | Article No. |
|  | For 2 MW units<br>(2P/1+N)                            | 12 MW     | 214 mm  | ■                    | 5ST3734                 | 5ST3704     |
|                                                                                   |                                                       | 56 MW     | 1016 mm | –                    | 5ST3735                 | 5ST3705     |
| 4-phase/3-phase + N, for MCBs with RCCB                                           |                                                       |           |         |                      | Article No.             | Article No. |
|  | For RCBOs or<br>MCBs 1P+N                             | 56 MW     | 1000 mm | –                    | 5ST3770-2               | 5ST3770-3   |
|                                                                                   |                                                       |           |         |                      |                         |             |
|  | For 6 MCBs<br>1P+N<br>with 1 RCCB<br>3P+N,<br>N right | 16 MW     | 292 mm  | ■                    | 5ST3770-4               | 5ST3770-5   |
|                                                                                   |                                                       |           |         |                      |                         |             |

## Accessories for busbars 5ST36 and 5ST37

| End caps for 5ST37                                                                  |                                 |             |
|-------------------------------------------------------------------------------------|---------------------------------|-------------|
|  | Version                         | Article No. |
|                                                                                     | For 2-phase and 3-phase busbars | 5ST3750     |
|                                                                                     | For 4-phase busbars             | 5ST3718     |



## 5ST36 and 5ST37

### Fixed lengths, cannot be cut, for devices with add-on 5SM6 arc fault detection units

| Pin spacing in MW<br>(1 MW = 18 mm) | Application | No. of MW | Length | End caps included | Color | Conductor cross-section<br>10 mm <sup>2</sup> | Article No. |
|-------------------------------------|-------------|-----------|--------|-------------------|-------|-----------------------------------------------|-------------|
| <b>3-phase</b><br>                  | For 5SM601. | 12 MW     | 210 mm | –                 | Gray  |                                               | 5ST3615-1   |

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### Can be cut, for devices with add-on 5SM6 arc fault detection units

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

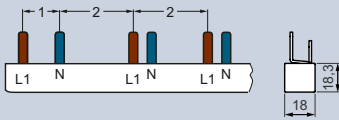
# Standard busbars

## 5ST36 and 5ST37



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

| Pin spacing in MW<br>(1 MW = 18 mm) | Application                                               | No. of MW | Length | End caps included | Color | Conductor cross-section<br>16 mm <sup>2</sup> | Article No. |
|-------------------------------------|-----------------------------------------------------------|-----------|--------|-------------------|-------|-----------------------------------------------|-------------|
| 2-phase/1-phase + N                 | For RCCB 2P N-right and 5 AFDD (5SM601.) + compact device | 12 MW     | 214 mm | ■                 | Gray  |                                               | 5ST3772     |



## Accessories

| Terminals for infeed at side                     |             | Article No. |
|--------------------------------------------------|-------------|-------------|
| For conductors<br>6 ... 25 mm <sup>2</sup>       | Short       | 5ST3768     |
|                                                  | Short, IP20 | 5ST3771-2   |
|                                                  | Long        | 5ST3771-1   |
| End caps                                         |             | Article No. |
| For 1-phase busbars                              | Gray        | 5ST3766     |
|                                                  | Blue        | 5ST3767     |
| For 2 and 3-phase busbars                        |             | 5ST3750     |
| For 4-phase busbars                              |             | 5ST3718     |
| Touch protection                                 |             | Article No. |
| For free connections, yellow (RAL 1004) 5× 1 pin |             | 5ST3655     |

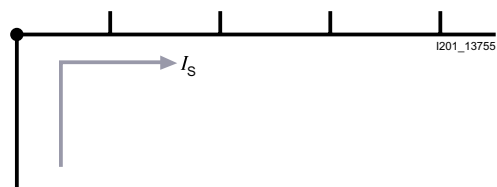
# Compact busbars

## General information



### Infeed

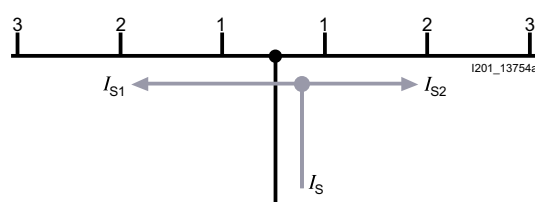
#### At the start or end of the busbar



Maximum busbar current  $I_s$ /phase

- Cross-section 10 mm<sup>2</sup>: 63 A
- Cross-section 16 mm<sup>2</sup>: 80 A

#### Along the busbar or midpoint infeed



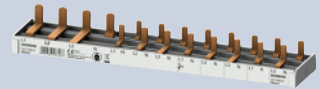
Maximum busbar current  $I_s$ /phase

- Cross-section 10 mm<sup>2</sup>: 100 A
- Cross-section 16 mm<sup>2</sup>: 130 A

# Compact busbars

5ST36, fixed lengths, cannot be cut

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

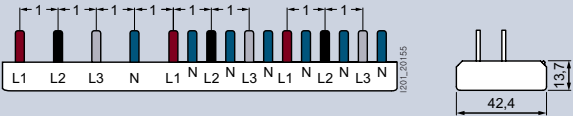
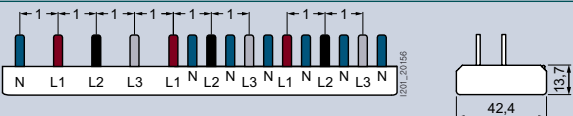
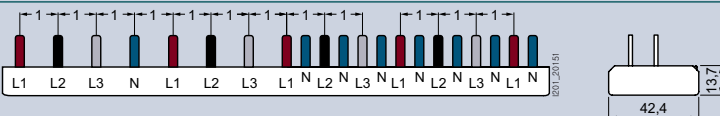
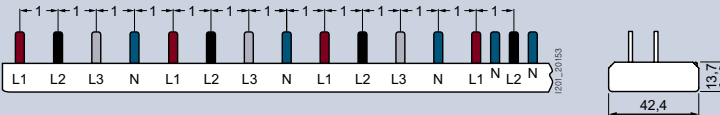
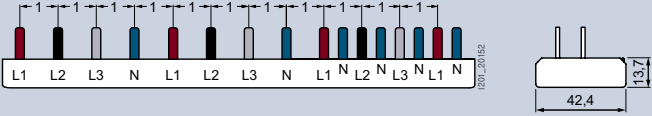
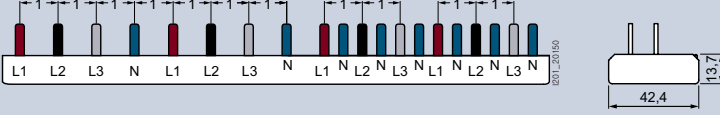


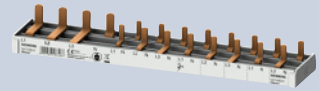
## 5ST37, can be cut

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

# Compact busbars

## 5ST37, can be cut

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



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

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## Accessories for 5ST3 compact busbars, versions that can and cannot be cut

### Touch protection for 5ST3



| Version                              | Color            | Article No. |
|--------------------------------------|------------------|-------------|
| For free connections, for pins L1, N | Yellow (RAL1004) | 5ST3655     |
| For pins L2, L3                      | Yellow (RAL1004) | 5ST3655-0HG |

### End caps for 5ST3



| Version                         | Color | Article No. |
|---------------------------------|-------|-------------|
| For 2-phase and 4-phase busbars | Gray  | 5ST3788-0   |

### Terminals, short, IP20



| Version                                                | For conductors           | Infeed  | Article No. |
|--------------------------------------------------------|--------------------------|---------|-------------|
| Infeed terminal for connection of larger cross-section | Up to 25 mm <sup>2</sup> | Lateral | 5ST3771-2   |