

# Miniature circuit breakers

For advanced applications for buildings and infrastructure and for industry and mechanical engineering



5SL6 COM

5SY6

5SY4

## Standards

| Standards | IEC/EN 60898-1 | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077 | IEC/EN 60898-1<br>IEC/EN 60947-2<br>UL 1077 |
|-----------|----------------|---------------------------------------------|---------------------------------------------|
|-----------|----------------|---------------------------------------------|---------------------------------------------|

## Basic data

|                                  |                                                                                                 |                    |    |                                                        |                                                        |         |
|----------------------------------|-------------------------------------------------------------------------------------------------|--------------------|----|--------------------------------------------------------|--------------------------------------------------------|---------|
| Breaking capacity $I_{cn}$       | For AC (230/400 V) acc. to IEC/EN 60898-1                                                       | kA                 | 6  | 6                                                      | 10                                                     |         |
|                                  | For DC (220/440 V) acc. to IEC/EN 60898-2                                                       | kA                 | –  | –                                                      | –                                                      |         |
|                                  | Acc. to UL1077 and CSA C22.2 No.235                                                             |                    | –  | Supplementary protector, OC, FW 0, OL 0, TC 3 at 50 °C | Supplementary protector, OC, FW 0, OL 0, TC 3 at 50 °C |         |
|                                  |                                                                                                 | SC                 | –  | U2: see Certificate of Compliance                      | U2: see Certificate of Compliance                      |         |
| Rated breaking capacity $I_{cu}$ | Acc. to IEC/EN 60947-2 AC<br>at $U_e$ 230 V   at $U_e$ 400 V<br>(1P, 1P+N)   (2P, 3P, 4P, 3P+N) | $I_n$ 0.3 ... 2 A  | kA | –                                                      | 30   30                                                | 35   35 |
|                                  |                                                                                                 | $I_n$ 3 ... 6 A    | kA | –                                                      | 30   30                                                | 35   35 |
|                                  |                                                                                                 | $I_n$ 8 ... 10 A   | kA | –                                                      | 15   15                                                | 20   20 |
|                                  |                                                                                                 | $I_n$ 13 ... 32 A  | kA | –                                                      | 15   15                                                | 20   20 |
|                                  |                                                                                                 | $I_n$ 35 ... 40 A  | kA | –                                                      | 10   10                                                | 15   15 |
|                                  |                                                                                                 | $I_n$ 50 ... 63 A  | kA | –                                                      | 10   10                                                | 15   15 |
|                                  |                                                                                                 | $I_n$ 80 ... 125 A | kA | –                                                      | –   –                                                  | 10   10 |
|                                  | Acc. to IEC/EN 60947-2 DC<br>at $U_e$ 220 V   at $U_e$ 440 V<br>(1P)   (2P, 3P, 4P)             | kA                 | –  | –                                                      | –                                                      |         |

## Approvals

|                           |  |          |                                                                                                      |                                                                                                      |
|---------------------------|--|----------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| General product approvals |  | VDE, RED | VDE, IMQ, CCC,  | VDE, IMQ, CCC,  |
| Marine classifications    |  | —        | DNV-GL, LR, BV, RINA, ABS                                                                            | DNV-GL, LR, BV, RINA, ABS                                                                            |

## Voltage/frequency

|                                            |                                           |    |       |                  |                  |
|--------------------------------------------|-------------------------------------------|----|-------|------------------|------------------|
| Rated voltage AC                           |                                           | V  | 230   | 230/400          | 230/400          |
|                                            | Acc. to UL 489, UL 1077, CSA C22.2 No.235 | V  | —     | 277/480          | 277/480          |
| Max. operational voltage AC                |                                           | V  | 250   | 250/440          | 250/440          |
| Rated voltage DC per phase pole            |                                           | V  | —     | 60               | 60               |
| Max. operational voltage DC per phase pole |                                           | V  | —     | 72 <sup>1)</sup> | 72 <sup>1)</sup> |
| Rated impulse voltage $U_{imp}$            |                                           | kV | 4     | 4                | 4                |
| Rated frequency $f_n$                      |                                           | Hz | 50/60 | 50/60            | 50/60            |

## Connection

|                                   |                                                              |                 |                |                  |                  |
|-----------------------------------|--------------------------------------------------------------|-----------------|----------------|------------------|------------------|
| Dual-chamber terminal             |                                                              |                 | —              | ■                | ■                |
| Conductor cross-section<br>1 wire | Solid/stranded                                               | mm <sup>2</sup> | 0.75 ... 16    | 0.75 ... 35      | 0.75 ... 35      |
|                                   | Finely stranded with end sleeve                              | mm <sup>2</sup> | 0.75 ... 10    | 0.75 ... 25      | 0.75 ... 25      |
|                                   | Conductors (Cu 60/75 °C $I_n \leq 40$ A; 60 °C $I_n > 40$ A) |                 | —              | AWG 18 ... 4     | AWG 18 ... 4     |
| Terminal tightening torque        |                                                              | Nm              | 1.2 ... 2 max. | 2.5 ... 3.5 max. | 2.5 ... 3.5 max. |
|                                   |                                                              | lb-in           | 11 ... 18      | 22 ... 26        | 22 ... 26        |

## Ambient conditions

|                                                                                                                 |    |                           |                           |                           |
|-----------------------------------------------------------------------------------------------------------------|----|---------------------------|---------------------------|---------------------------|
| Ambient temperature <sup>7)</sup>                                                                               | °C | —25 ... +60 <sup>5)</sup> | —25 ... +55 <sup>4)</sup> | —40 ... +70 <sup>3)</sup> |
| Storage temperature                                                                                             | °C | —40 ... +75               | —40 ... +75 <sup>3)</sup> | —40 ... +75 <sup>3)</sup> |
| Shock acc. to IEC 60068-2-27 150 m/s <sup>2</sup> at 11 ms half-sine                                            |    | —                         | ■                         | ■                         |
| Resistance to vibrations acc. to IEC 60068-2-6: 5 ... 25 Hz (±1 mm) and at 25 ... 150 Hz (50 m/s <sup>2</sup> ) |    | —                         | ■                         | ■                         |
| Resistant to shock and vibrations acc. to EN 61373 and EN 50155 "1B" (railway engineering)                      |    | ■                         | —                         | ■                         |
| Fire behavior of materials acc. to EN 45545-2 (fire protection on railway vehicles)                             |    | ■                         | —                         | ■                         |
| Degree of pollution for overvoltage category                                                                    |    | 2/ III                    | 3/ III                    | 3/ III                    |

## Additional functions

|                                                    |  |   |   |   |
|----------------------------------------------------|--|---|---|---|
| Measuring and communication function <sup>8)</sup> |  | ■ | — | — |
|----------------------------------------------------|--|---|---|---|

## Further information

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<sup>1)</sup> Exempt: C/D 0.3 A ... 0.5 A

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

<sup>3)</sup> 95% humidity up to 55 °C, 55% humidity up to 70 °C, 30% humidity up to 75 °C

<sup>4)</sup> Max. 95% humidity

<sup>5)</sup> Max. 85% rel. humidity, > 45 °C max. 0.056 kg/m<sup>3</sup> abs. humidity

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

**5SP4****5SP5****5SY5****5SY7****5SY8****5SJ4..HG..**IEC/EN 60898-1  
UL 1077

IEC/EN 60947-2

IEC/EN 60898-2  
UL 1077IEC/EN 60898-1  
IEC/EN 60947-2  
UL 1077IEC/EN 60947-2  
UL 1077IEC/EN 60947-2  
UL 489

10

–

10

15

25

–

–

–

10

–

–

–

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

–

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

–

U2: see Certificate of  
Compliance

–

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

–

– | –

– | –

– | –

50 | 50

70 | 70

10

– | –

– | –

– | –

40 | 40

50 | 50

10

– | –

– | –

– | –

30 | 30

40 | 40

10

– | –

– | –

– | –

25 | 25

30 | 30

10

– | –

– | –

– | –

20 | 20

25 | 25

10

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15 | 15

20 | 20

10

10 | 10

– | –

– | –

– | –

– | –

–

–

10

15

–

–

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80 ... 125  
1P | 2P | 3P | 4P80 ... 125  
1P | 2P0.3 ... 63  
1P | 2P | 4P0.3 ... 63  
1P | 2P | 3P | 4P | 1P+N |  
3P+N0.3 ... 63  
1P | 2P | 3P | 4P | 1P+N |  
3P+N0.3 ... 63  
1P | 2P | 3P

B | C | D

–

B | C

B | C | D

C | D

B | C | D

VDE, CCC,  
  
LR

–

VDE, CCC,  
  
ABSVDE, IMQ, CCC,  
  
DNV-GL, LR, BV, RINA, ABS  
ABSVDE, CCC,  
  
–230/400  
277/480

–

230/400  
–230/400  
277/480230/400  
277/480230/400  
240/415 (5SJ4..HG40/41)  
277/480 (5SJ4..HG42)

250/440

–

250/440

250/440

250/440

250/440

60

220

220

60

60

60

72

250

250

72 <sup>1)</sup>72 <sup>1)</sup>

60

4

4

4

4

4

4

50/60

50/60

50/60

50/60

50/60

50/60

–

–

■

■

■

■

10 ... 50

10 ... 50

0.75 ... 35

0.75 ... 35

0.75 ... 35

0.75 ... 25 (16) <sup>6)</sup>

10 ... 35

10 ... 35

0.75 ... 25

0.75 ... 25

0.75 ... 25

0.75 ... 25 (10)

AWG 3 ... 1

AWG 3 ... 1

AWG 18 ... 4

AWG 18 ... 4

AWG 18 ... 4

AWG 18 ... 4 (5)

2.5 ... 3.5 max.

2.5 ... 3.5 max.

2.5 ... 3.5 max.

2.5 ... 3.5 max.

2.5 ... 3.5 max.

2.5 ... 3.5 max.

22 ... 31

22 ... 31

22 ... 26

22 ... 26

22 ... 26

22 ... 26

–25 ... +55 <sup>4)</sup>–25 ... +55 <sup>4)</sup>–40 ... +70 <sup>3)</sup>–40 ... +70 <sup>3)</sup>–25 ... +55 <sup>4)</sup>–25 ... +55 <sup>4)</sup>–40 ... +75 <sup>3)</sup>–40 ... +75 <sup>3)</sup>–40 ... +75 <sup>3)</sup>–40 ... +75 <sup>3)</sup>–40 ... +75 <sup>3)</sup>–40 ... +75 <sup>3)</sup>

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3/III

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3/III <sup>4)</sup>

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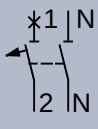
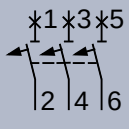
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<sup>7)</sup> The device properties specified, for example, in the product standards, such as service life, breaking capacity and surface temperature, cannot be guaranteed at the specified ambient temperatures that lie outside the specified product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

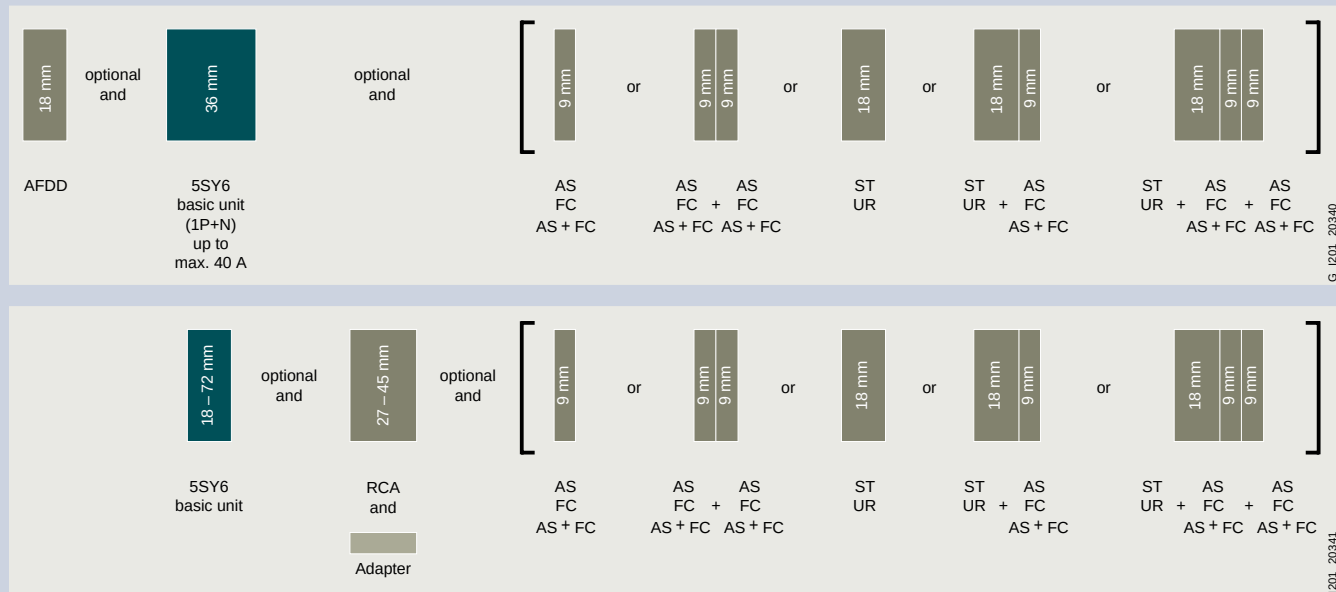
<sup>8)</sup> Please note the country-specific radio licenses of the products at [www.siemens.com/lowvoltage/certificates](http://www.siemens.com/lowvoltage/certificates) (109801197)

# 5SY6 miniature circuit breakers

6 kA

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

## Mounting concept



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

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AS+FC Auxiliary switches and  
fault signal contacts  
ST Shunt trips

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See page 3/56

UR  
RCA

Undervoltage releases  
Remote control auxiliaries

See page 3/57  
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| 3P+N           |           | 4P             |           |
|----------------|-----------|----------------|-----------|
| 400 V AC       |           | 400 V AC       |           |
| 4 MW           |           | 4 MW           |           |
|                |           |                |           |
| Characteristic |           | Characteristic |           |
| B              | C         | B              | C         |
| –              | 5SY6614-7 | –              | 5SY6414-7 |
| –              | 5SY6605-7 | –              | 5SY6405-7 |
| –              | 5SY6601-7 | –              | 5SY6401-7 |
| –              | 5SY6615-7 | –              | 5SY6415-7 |
| –              | 5SY6602-7 | –              | 5SY6402-7 |
| –              | 5SY6603-7 | –              | 5SY6403-7 |
| –              | 5SY6604-7 | –              | 5SY6404-7 |
| –              | –         | –              | –         |
| 5SY6606-6      | 5SY6606-7 | 5SY6406-6      | 5SY6406-7 |
| –              | 5SY6608-7 | –              | 5SY6408-7 |
| 5SY6610-6      | 5SY6610-7 | 5SY6410-6      | 5SY6410-7 |
| 5SY6613-6      | 5SY6613-7 | 5SY6413-6      | 5SY6413-7 |
| –              | –         | –              | –         |
| 5SY6616-6      | 5SY6616-7 | 5SY6416-6      | 5SY6416-7 |
| 5SY6620-6      | 5SY6620-7 | 5SY6420-6      | 5SY6420-7 |
| 5SY6625-6      | 5SY6625-7 | 5SY6425-6      | 5SY6425-7 |
| –              | –         | –              | –         |
| 5SY6632-6      | 5SY6632-7 | 5SY6432-6      | 5SY6432-7 |
| 5SY6640-6      | 5SY6640-7 | 5SY6440-6      | 5SY6440-7 |
| 5SY6650-6      | 5SY6650-7 | 5SY6450-6      | 5SY6450-7 |
| 5SY6663-6      | 5SY6663-7 | 5SY6463-6      | 5SY6463-7 |

## Accessories

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

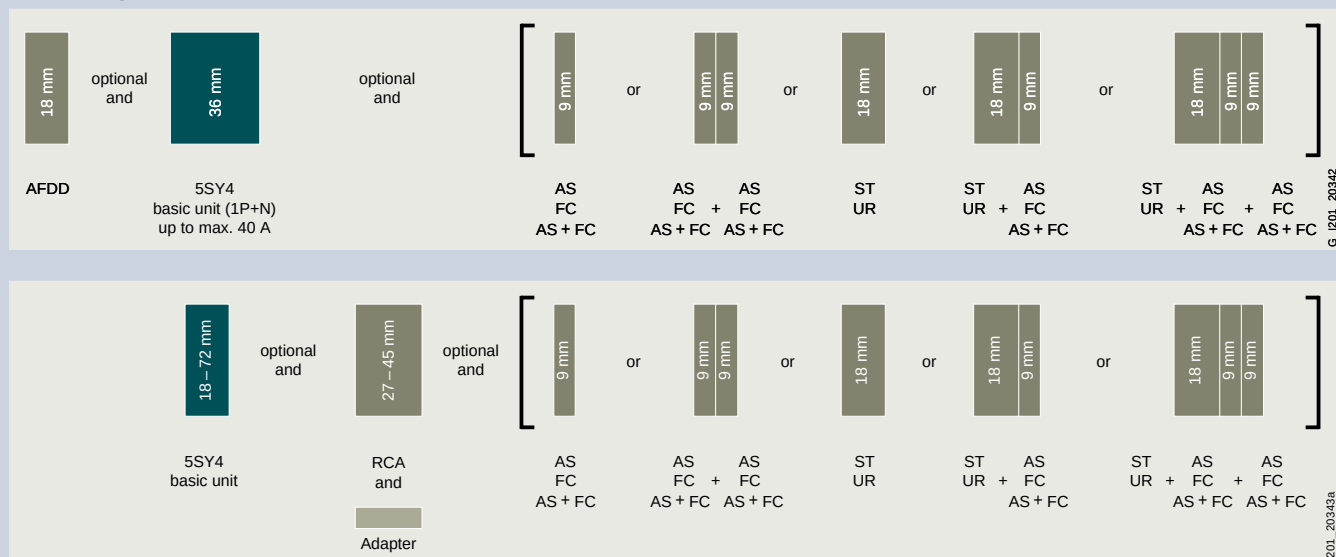
| Undervoltage releases (UR)                               |                                   | Article No.            |
|----------------------------------------------------------|-----------------------------------|------------------------|
| With integrated auxiliary switch                         | 230 V AC                          | 5ST3040                |
|                                                          | 110 V DC                          | 5ST3041                |
|                                                          | 24 V DC                           | 5ST3042                |
| Without integrated auxiliary switch                      | 230 V AC                          | 5ST3043                |
|                                                          | 110 V DC                          | 5ST3044                |
|                                                          | 24 V DC                           | 5ST3045                |
| Remote control auxiliaries (RCA)                         |                                   | Article No.            |
| Basic                                                    | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053                |
|                                                          | 177 ... 270 V AC                  | 5ST3054                |
| Power                                                    | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055                |
|                                                          | 177 ... 270 V AC                  | 5ST3056                |
| Power with ARD                                           | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057                |
|                                                          | 177 ... 270 V AC                  | 5ST3058                |
| Power with extended function                             | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070                |
|                                                          | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071                |
| Communication-capable                                    | 100 ... 240 V AC                  | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test                   | 100 ... 240 V AC                  | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA)            |                                   | Article No.            |
| 1 ... 2 MW                                               |                                   | 5ST3820-1              |
| 3 ... 4 MW                                               |                                   | 5ST3820-2              |
| Arc fault detection units (AFDD)                         |                                   | Article No.            |
| For basic units 1P+N (2 MW), not in combination with RCA | $I_n$ up to 16 A                  | 5SM6021-2              |
|                                                          | $I_n$ up to 40 A                  | 5SM6024-2              |

# 5SY4 miniature circuit breakers

10 kA

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

## Mounting concept





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

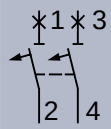
## Accessories

| Auxiliary switches (AS)                              |                            | Article No.   |
|------------------------------------------------------|----------------------------|---------------|
| 1 NO + 1 NC                                          | Standard                   | 5ST3010       |
|                                                      | For low power              | 5ST3013       |
|                                                      | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO                                                 | Standard                   | 5ST3011       |
|                                                      | For low power              | 5ST3014       |
| 2 NC                                                 | Standard                   | 5ST3012       |
|                                                      | For low power              | 5ST3015       |
| 1 CO                                                 | Standard                   | 5ST3016       |
| Fault signal contacts (FC)                           |                            | Article No.   |
| 1 NO + 1 NC                                          |                            | 5ST3020       |
| 2 NO                                                 |                            | 5ST3021       |
| 2 NC                                                 |                            | 5ST3022       |
| Auxiliary switches and fault signal contacts (AS+FC) |                            | Article No.   |
| 1 CO (AS) + 1 CO (FC)                                |                            | 5ST3062       |
| 5ST3 COM (AS+FC)                                     |                            | 5ST3062-0MC   |
| Shunt trips (ST)                                     |                            | Article No.   |
| 110 ... 415 V AC, 110 ... 220 V DC                   |                            | 5ST3030       |
| 24 ... 48 V AC/DC                                    |                            | 5ST3031       |
| 12 V DC                                              |                            | 5ST3031-0XX01 |
| Arc fault detection units (AFDD)                     |                            | Article No.   |
| For basic units 1P+N (2 MW)                          | $I_n$ up to 16 A           | 5SM6021-2     |
|                                                      | $I_n$ up to 40 A           | 5SM6024-2     |

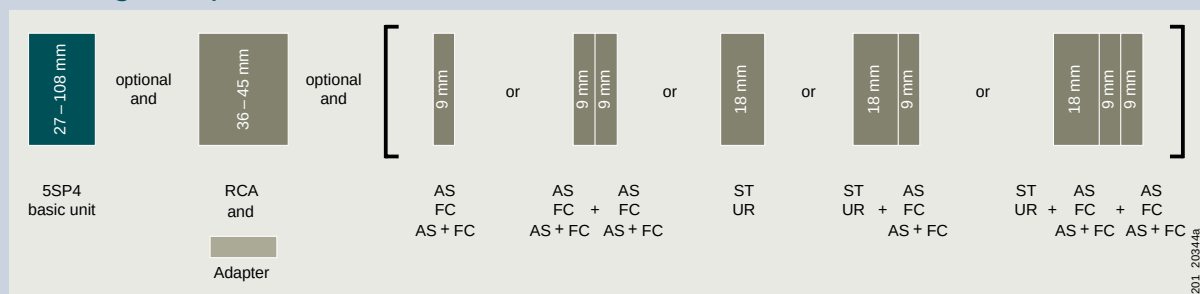
| Undervoltage releases (UR)                    |                                   | Article No.            |
|-----------------------------------------------|-----------------------------------|------------------------|
| With integrated auxiliary switch              | 230 V AC                          | 5ST3040                |
|                                               | 110 V DC                          | 5ST3041                |
|                                               | 24 V DC                           | 5ST3042                |
| Without integrated auxiliary switch           | 230 V AC                          | 5ST3043                |
|                                               | 110 V DC                          | 5ST3044                |
|                                               | 24 V DC                           | 5ST3045                |
| Remote control auxiliaries (RCA)              |                                   | Article No.            |
| Basic                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053                |
|                                               | 177 ... 270 V AC                  | 5ST3054                |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055                |
|                                               | 177 ... 270 V AC                  | 5ST3056                |
| Power with ARD                                | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057                |
|                                               | 177 ... 270 V AC                  | 5ST3058                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                  | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IIR test       | 100 ... 240 V AC                  | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                   | Article No.            |
| 1 ... 2 MW                                    |                                   | 5ST3820-1              |
| 3 ... 4 MW                                    |                                   | 5ST3820-2              |

# 5SP4 miniature circuit breakers

10 kA

|                     | 1P                                                                                          | 2P                                                                                         |           |
|---------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------|
| Rated voltage $U_n$ | 230/400 V AC                                                                                | 400 V AC                                                                                   |           |
| Mounting width      | 1.5 MW<br> | 3 MW<br> |           |
| Rated current $I_n$ | Characteristic                                                                              |                                                                                            |           |
|                     | B                                                                                           | C                                                                                          | D         |
| 80 A                | 5SP4180-6                                                                                   | 5SP4180-7                                                                                  | 5SP4180-8 |
| 100 A               | 5SP4191-6                                                                                   | 5SP4191-7                                                                                  | 5SP4191-8 |
| 125 A               | 5SP4192-6                                                                                   | 5SP4192-7                                                                                  | —         |

## Mounting concept





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

3

## Accessories

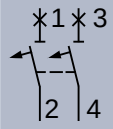
| Auxiliary switches (AS)                              |                            | Article No.   |
|------------------------------------------------------|----------------------------|---------------|
| 1 NO + 1 NC                                          | Standard                   | 5ST3010   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

| Undervoltage releases (UR)                    |                                   | Article No.            |
|-----------------------------------------------|-----------------------------------|------------------------|
| With integrated auxiliary switch              | 230 V AC                          | 5ST3040                |
|                                               | 110 V DC                          | 5ST3041                |
|                                               | 24 V DC                           | 5ST3042                |
| Without integrated auxiliary switch           | 230 V AC                          | 5ST3043                |
|                                               | 110 V DC                          | 5ST3044                |
|                                               | 24 V DC                           | 5ST3045                |
| Remote control auxiliaries (RCA)              |                                   | Article No.            |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055                |
|                                               | 177 ... 270 V AC                  | 5ST3056                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                  | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test        | 100 ... 240 V AC                  | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                   | Article No.            |
| 1.5 MW                                        |                                   | 5ST3820-1              |
| 3 ... 6 MW                                    |                                   | 5ST3820-2              |

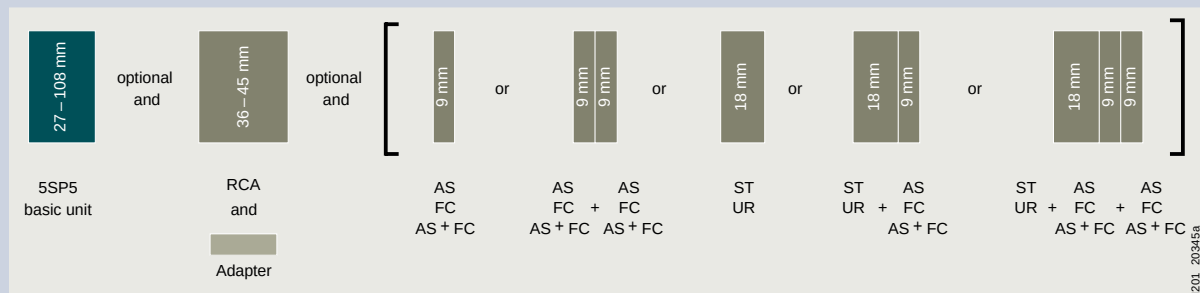


# 5SP5 miniature circuit breakers

10 kA

|                     | 1P                                                                                          | 2P                                                                                        |
|---------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Rated voltage $U_n$ | 220 V DC                                                                                    | 440 V DC                                                                                  |
| Mounting width      | 1.5 MW<br> | 3 MW<br> |
| Rated current $I_n$ |                                                                                             |                                                                                           |
| 80 A                | 5SP5180-7CC                                                                                 | 5SP5280-7CC                                                                               |
| 100 A               | 5SP5191-7CC                                                                                 | 5SP5291-7CC                                                                               |
| 125 A               | 5SP5192-7CC                                                                                 | 5SP5292-7CC                                                                               |

## Mounting concept



|       |                                              |
|-------|----------------------------------------------|
| AS    | Auxiliary switches                           |
| FC    | Fault signal contacts                        |
| AS+FC | Auxiliary switches and fault signal contacts |
| ST    | Shunt trips                                  |
| UR    | Undervoltage releases                        |
| RCA   | Remote control auxiliaries                   |



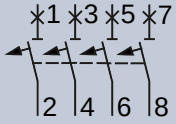
## Accessories

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

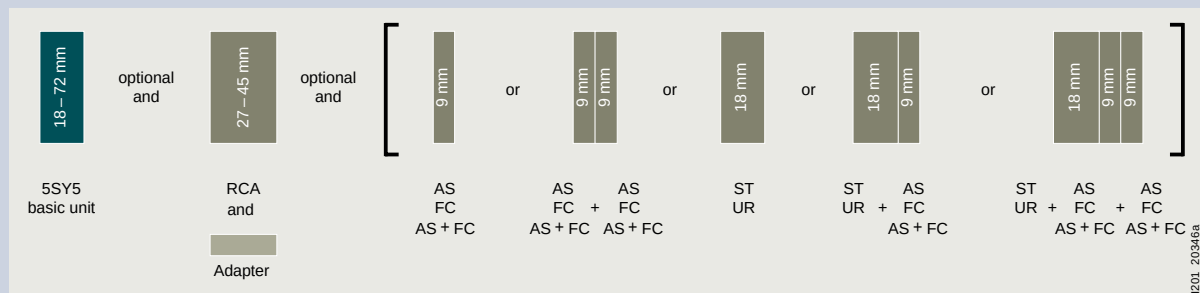
| Undervoltage releases (UR)                    |                                   | Article No.            |
|-----------------------------------------------|-----------------------------------|------------------------|
| With integrated auxiliary switch              | 230 V AC                          | 5ST3040                |
|                                               | 110 V DC                          | 5ST3041                |
|                                               | 24 V DC                           | 5ST3042                |
| Without integrated auxiliary switch           | 230 V AC                          | 5ST3043                |
|                                               | 110 V DC                          | 5ST3044                |
|                                               | 24 V DC                           | 5ST3045                |
| Remote control auxiliaries (RCA)              |                                   | Article No.            |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055                |
|                                               | 177 ... 270 V AC                  | 5ST3056                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                  | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test        | 100 ... 240 V AC                  | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                   | Article No.            |
| 1.5 MW                                        |                                   | 5ST3820-1              |
| 3 ... 6 MW                                    |                                   | 5ST3820-2              |

# 5SY5 miniature circuit breakers

10 kA

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

## Mounting concept



|       |                                              |
|-------|----------------------------------------------|
| AS    | Auxiliary switches                           |
| FC    | Fault signal contacts                        |
| AS+FC | Auxiliary switches and fault signal contacts |
| ST    | Shunt trips                                  |
| UR    | Undervoltage releases                        |
| RCA   | Remote control auxiliaries                   |

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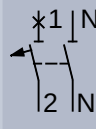
## Accessories

| 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 |

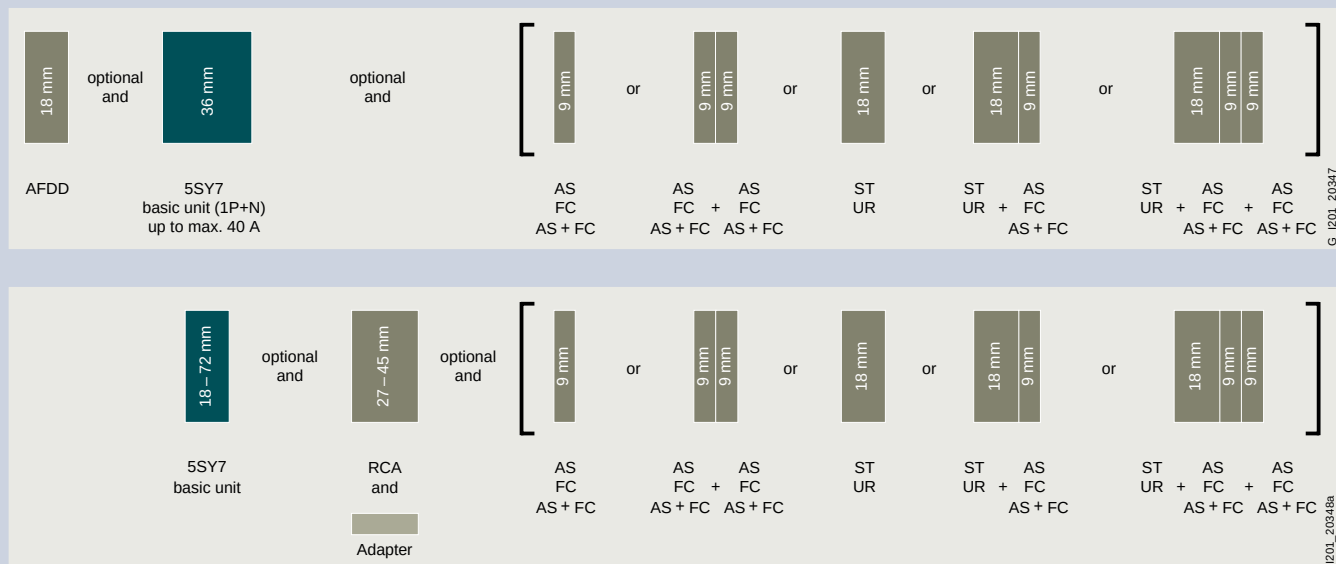
| Undervoltage releases (UR)                    |                                   | Article No.            |
|-----------------------------------------------|-----------------------------------|------------------------|
| With integrated auxiliary switch              | 230 V AC                          | 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 auxiliaries (RCA)              |                                   | Article No.            |
| Basic                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053                |
|                                               | 177 ... 270 V AC                  | 5ST3054                |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055                |
|                                               | 177 ... 270 V AC                  | 5ST3056                |
| Power with ARD                                | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057                |
|                                               | 177 ... 270 V AC                  | 5ST3058                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                  | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test        | 100 ... 240 V AC                  | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                   | Article No.            |
| 1 ... 2 MW                                    |                                   | 5ST3820-1              |
| 4 MW                                          |                                   | 5ST3820-2              |

# 5SY7 miniature circuit breakers

15 kA

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

## Mounting concept



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

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AS+FC Auxiliary switches and fault signal contacts  
ST Shunt trips

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UR Undervoltage releases  
RCA Remote control auxiliaries

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

## Accessories

| Auxiliary switches (AS)                              |                            | Article No.   |
|------------------------------------------------------|----------------------------|---------------|
| 1 NO + 1 NC                                          | Standard                   | 5ST3010       |
|                                                      | For low power              | 5ST3013       |
|                                                      | For low power (with diode) | 5ST3013-0XX01 |
| 2 NO                                                 | Standard                   | 5ST3011       |
|                                                      | For low power              | 5ST3014       |
| 2 NC                                                 | Standard                   | 5ST3012       |
|                                                      | For low power              | 5ST3015       |
| 1 CO                                                 | Standard                   | 5ST3016       |
| Fault signal contacts (FC)                           |                            | Article No.   |
| 1 NO + 1 NC                                          |                            | 5ST3020       |
| 2 NO                                                 |                            | 5ST3021       |
| 2 NC                                                 |                            | 5ST3022       |
| Auxiliary switches and fault signal contacts (AS+FC) |                            | Article No.   |
| 1 CO (AS) + 1 CO (FC)                                |                            | 5ST3062       |
| 5ST3 COM (AS+FC)                                     |                            | 5ST3062-0MC   |
| Shunt trips (ST)                                     |                            | Article No.   |
| 110 ... 415 V AC, 110 ... 220 V DC                   |                            | 5ST3030       |
| 24 ... 48 V AC/DC                                    |                            | 5ST3031       |
| 12 V DC                                              |                            | 5ST3031-0XX01 |
| Arc fault detection units (AFDD)                     |                            | Article No.   |
| For basic units 1P+N<br>(2 MW)                       | $I_n$ up to 16 A           | 5SM6021-2     |
|                                                      | $I_n$ up to 40 A           | 5SM6024-2     |

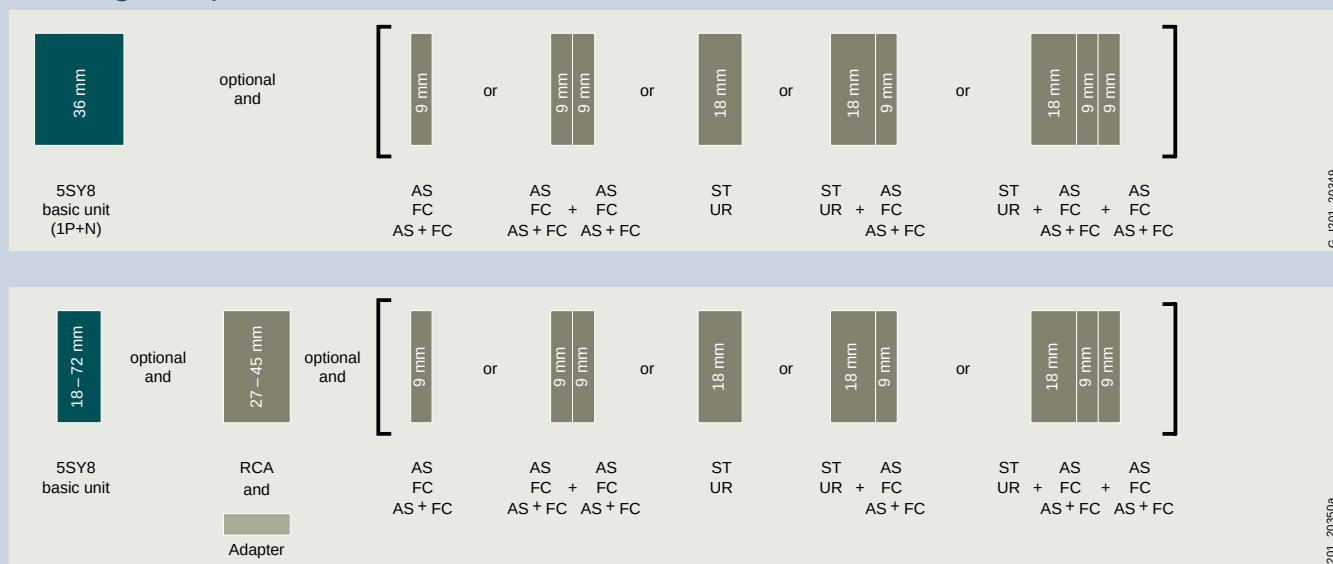
| Undervoltage releases (UR)                    |                                   | Article No.            |
|-----------------------------------------------|-----------------------------------|------------------------|
| With integrated auxiliary switch              | 230 V AC                          | 5ST3040                |
|                                               | 110 V DC                          | 5ST3041                |
|                                               | 24 V DC                           | 5ST3042                |
| Without integrated auxiliary switch           | 230 V AC                          | 5ST3043                |
|                                               | 110 V DC                          | 5ST3044                |
|                                               | 24 V DC                           | 5ST3045                |
| Remote control auxiliaries (RCA)              |                                   | Article No.            |
| Basic                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053                |
|                                               | 177 ... 270 V AC                  | 5ST3054                |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055                |
|                                               | 177 ... 270 V AC                  | 5ST3056                |
| Power with ARD                                | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057                |
|                                               | 177 ... 270 V AC                  | 5ST3058                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                  | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test        | 100 ... 240 V AC                  | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                   | Article No.            |
| 1 ... 2 MW                                    |                                   | 5ST3820-1              |
| 3 ... 4 MW                                    |                                   | 5ST3820-2              |

# 5SY8 miniature circuit breakers

25 kA

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

## Mounting concept



AFDD Arc fault detection units

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AS+FC Auxiliary switches and

[See page 3/53](#)

UR Undervoltage releases

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AS Auxiliary switches

[See page 3/50](#)

FC Fault signal contacts

[See page 3/56](#)

RCA Remote control auxiliaries

[See page 3/58](#)

ST Shunt trips



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

## Accessories

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

| Undervoltage releases (UR)                    |                                   | Article No.            |
|-----------------------------------------------|-----------------------------------|------------------------|
| With integrated auxiliary switch              | 230 V AC                          | 5ST3040                |
|                                               | 110 V DC                          | 5ST3041                |
|                                               | 24 V DC                           | 5ST3042                |
| Without integrated auxiliary switch           | 230 V AC                          | 5ST3043                |
|                                               | 110 V DC                          | 5ST3044                |
|                                               | 24 V DC                           | 5ST3045                |
| Remote control auxiliaries (RCA)              |                                   | Article No.            |
| Basic                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3053                |
|                                               | 177 ... 270 V AC                  | 5ST3054                |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3055                |
|                                               | 177 ... 270 V AC                  | 5ST3056                |
| Power with ARD                                | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3057                |
|                                               | 177 ... 270 V AC                  | 5ST3058                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC    | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                  | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test        | 100 ... 240 V AC                  | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                   | Article No.            |
| 1 ... 2 MW                                    |                                   | 5ST3820-1              |
| 3 ... 4 MW                                    |                                   | 5ST3820-2              |

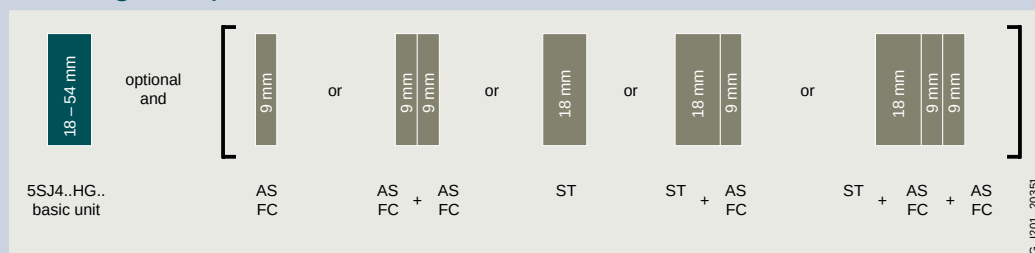


# 5SJ4..HG.. miniature circuit breakers

According to UL 489, 14/10 kA

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

## Mounting concept



AS Auxiliary switches  
FC Fault signal contacts  
ST Shunt trips

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[See page 3/52](#)  
[See page 3/56](#)



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

## Accessories

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

# 5SL6 COM miniature circuit breakers with measuring and communication function

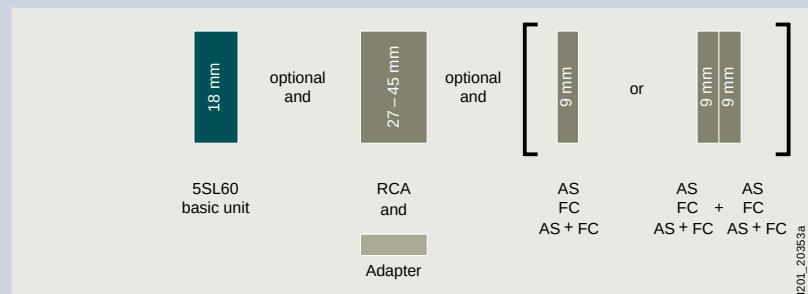
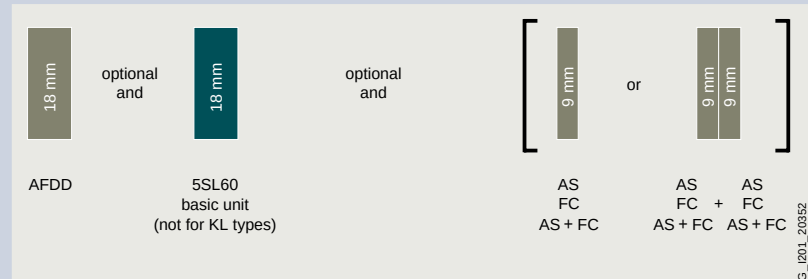


With energy monitoring (EM), 1P+N 6 kA compact miniature circuit breakers

3

| 1P+N (N pole right) |                  |                  |
|---------------------|------------------|------------------|
| Rated voltage $U_n$ | 230 V AC         |                  |
| Mounting width      | 1 MW             |                  |
|                     |                  |                  |
| Rated current $I_n$ | Characteristic B | Characteristic C |
| 2 A                 | 5SL6002-6MC      | 5SL6002-7MC      |
| 4 A                 | 5SL6004-6MC      | 5SL6004-7MC      |
| 6 A                 | 5SL6006-6MC      | 5SL6006-7MC      |
| 8 A                 | —                | 5SL6008-7MC      |
| 10 A                | 5SL6010-6MC      | 5SL6010-7MC      |
| 13 A                | 5SL6013-6MC      | 5SL6013-7MC      |
| 16 A                | 5SL6016-6MC      | 5SL6016-7MC      |
| 20 A                | 5SL6020-6MC      | 5SL6020-7MC      |
| 25 A                | 5SL6025-6MC      | 5SL6025-7MC      |
| 32 A                | 5SL6032-6MC      | 5SL6032-7MC      |

## Mounting concept



### Note:

Please note the country-specific radio licenses of the products at

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

AFDD  
AS  
FC  
AS+FC  
RCA

Arc fault detection units  
Auxiliary switches  
Fault signal contacts  
Auxiliary switches and fault signal contacts  
Remote control auxiliaries

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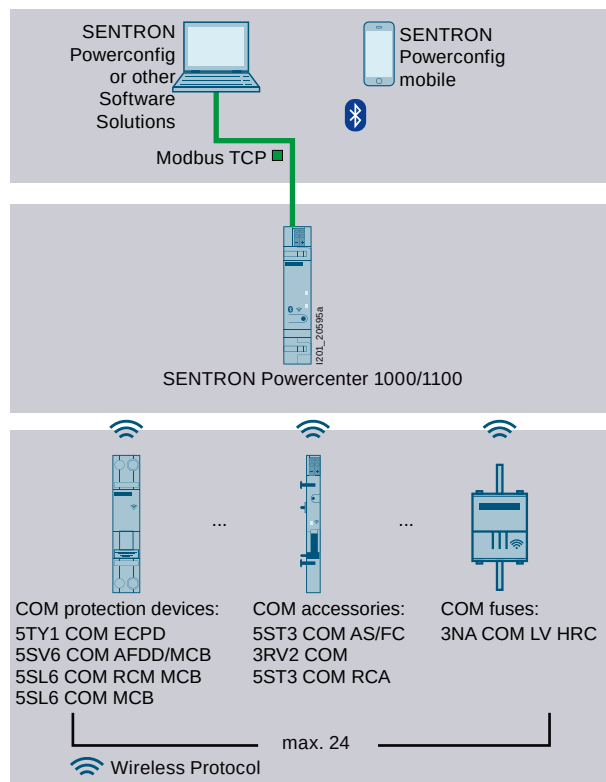
## Accessories

| 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   |

| Remote control auxiliaries (RCA)              |                                           | Article No.            |
|-----------------------------------------------|-------------------------------------------|------------------------|
| Basic                                         | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3053                |
|                                               | 177 ... 270 V AC                          | 5ST3054                |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3055                |
|                                               | 177 ... 270 V AC                          | 5ST3056                |
| Power with ARD                                | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3057                |
|                                               | 177 ... 270 V AC                          | 5ST3058                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC         | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                          | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test        | 100 ... 240 V AC                          | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                           | Article No.            |
| 1 MW                                          |                                           | 5ST3820-6              |
| Arc fault detection units (AFDD)              |                                           | Article No.            |
| For basic units 1P+N                          | $I_n$ up to 16 A                          | 5SM6011-2              |
|                                               | (1 MW), not for KL types $I_n$ up to 40 A | 5SM6014-2              |
| Data transceiver (essential accessory)        |                                           | Article No.            |
| SENTRON Powercenter 1000                      |                                           | 7KN1110-0MC00          |



## SENTRON Powercenter 1000/1100 data transceiver



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



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

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

Installation Manual – Circuit protection devices with communication and measuring function (**109791805**)



System Manual – Circuit protection devices with communication and measuring function (**109791806**)



## Monitoring functions with limit monitoring

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

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

# 5SL6 COM miniature circuit breakers with measuring and communication function



With residual current monitoring (RCM) and energy monitoring (EM),  
1P+N 6 kA compact miniature circuit breakers

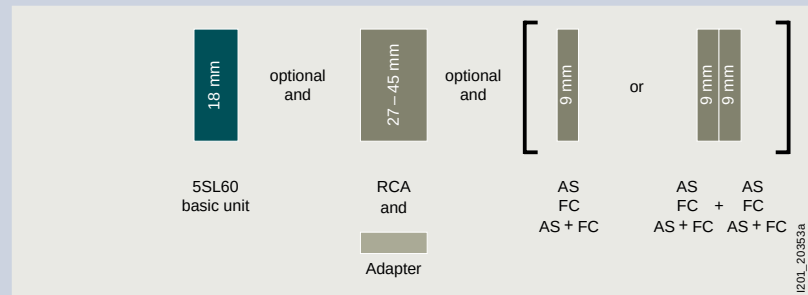
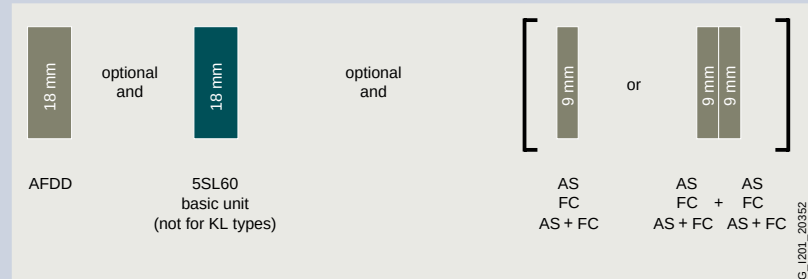
## 1P+N (N pole right)

Rated voltage  $U_n$  230 V AC  
Mounting width 1 MW



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

## Mounting concept



### Note:

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

AFDD  
AS  
FC  
AS+FC  
RCA

Arc fault detection units  
Auxiliary switches  
Fault signal contacts  
Auxiliary switches and fault signal contacts  
Remote control auxiliaries

See page 3/61  
See page 3/50  
See page 3/52  
See page 3/53  
See page 3/58

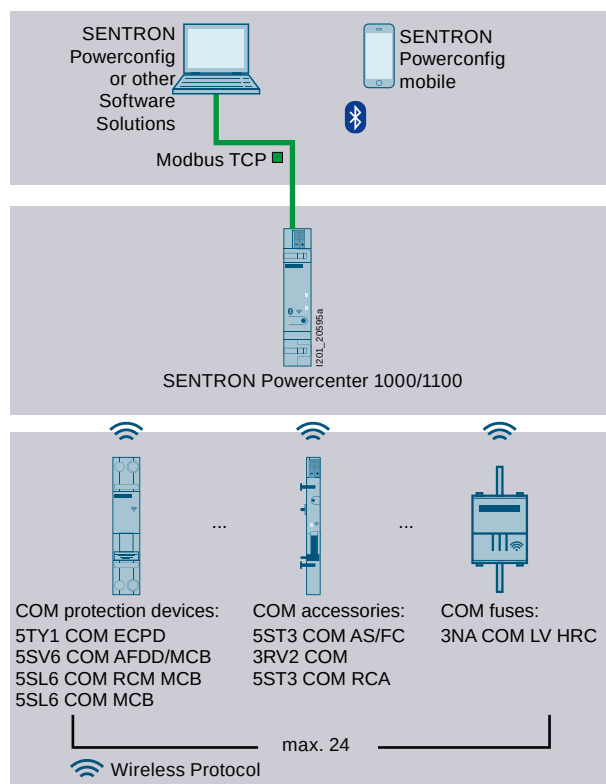
## Accessories

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

| Remote control auxiliaries (RCA)              |                                           | Article No.            |
|-----------------------------------------------|-------------------------------------------|------------------------|
| Basic                                         | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3053                |
|                                               | 177 ... 270 V AC                          | 5ST3054                |
| Power                                         | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3055                |
|                                               | 177 ... 270 V AC                          | 5ST3056                |
| Power with ARD                                | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3057                |
|                                               | 177 ... 270 V AC                          | 5ST3058                |
| Power with extended function                  | 12 ... 30 V AC, 12 ... 48 V DC            | 5ST3070                |
|                                               | 170 ... 277 V AC, 77 ... 286 V DC         | 5ST3071                |
| Communication-capable                         | 100 ... 240 V AC                          | 5ST3072-0MC <b>new</b> |
| Communication-capable with RCD/IR test        | 100 ... 240 V AC                          | 5ST3073-0MC <b>new</b> |
| Adapters for remote control auxiliaries (RCA) |                                           | Article No.            |
| 1 MW                                          |                                           | 5ST3820-6              |
| Arc fault detection units (AFDD)              |                                           | Article No.            |
| For basic units 1P+N                          | $I_n$ up to 16 A                          | 5SM6011-2              |
|                                               | (1 MW), not for KL types $I_n$ up to 40 A | 5SM6014-2              |
| Data transceiver (essential accessory)        |                                           | Article No.            |
| SENTRON Powercenter 1000                      |                                           | 7KN1110-0MC00          |



## SENTRON Powercenter 1000/1100 data transceiver



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

### See page 10/26

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

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



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



## Monitoring functions with limit monitoring

- Switching state with trip monitoring: short-circuit, overload
- Counters incl. limit monitoring
  - Operating hours
  - Operating hours with load current
  - Operating cycles (ON/OFF)
  - Tripping operations
  - Short circuits
- Limit alarms
  - Overcurrent alarm 1 and alarm 2
  - Undercurrent alarm 1 and alarm 2
  - Overvoltage alarm 1 and alarm 2
  - Undervoltage alarm 1 and alarm 2
  - Temperature
  - Residual current pre-alarm (low-pass channels)
  - Residual current main alarm (low-pass channels)

| Measured values                                                        | Unit |
|------------------------------------------------------------------------|------|
| Temperature                                                            | °C   |
| Average temperature                                                    | °C   |
| Current                                                                | A    |
| Average current                                                        | A    |
| Maximum current                                                        | A    |
| Voltage                                                                | V    |
| Line frequency                                                         | Hz   |
| Active power                                                           | W    |
| Apparent power                                                         | VA   |
| Reactive power                                                         | Var  |
| Power factor                                                           |      |
| Active energy imported                                                 | Wh   |
| Active energy exported                                                 | Wh   |
| Reactive energy imported                                               | Varh |
| Reactive energy exported                                               | Varh |
| Residual current measurement channels with adjustable measuring ranges | Unit |
| Line frequency 50 Hz                                                   | mA   |
| Harmonic of line frequency                                             | mA   |
| Low-pass filter (AC)                                                   | mA   |
| Low-pass filter (AC + pulsating DC)                                    | mA   |
| Band-pass filter                                                       | mA   |
| High-pass filter                                                       | mA   |

# 5SP3 selective main miniature circuit breakers (SHU)

25 kA, mounting on a 40 mm busbar



1P

3 × 1P

Rated voltage  $U_n$  230/400 V AC

230/400 V AC

Mounting width 1.5 MW

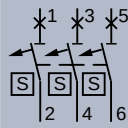
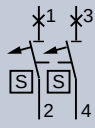
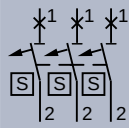
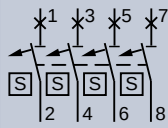
4.5 MW



| Rated current $I_n$ | Characteristic |               |               |              | Characteristic |
|---------------------|----------------|---------------|---------------|--------------|----------------|
|                     | E              |               |               |              | E              |
|                     | L1             | L2            | L3            | L1 + L2 + L3 |                |
| 16 A                | 5SP3716-2KK01  | 5SP3716-2KK02 | 5SP3716-2KK03 | 5SP3716-2    | 5SP3816-2      |
| 20 A                | 5SP3720-2KK01  | 5SP3720-2KK02 | 5SP3720-2KK03 | 5SP3720-2    | 5SP3820-2      |
| 25 A                | 5SP3725-2KK01  | 5SP3725-2KK02 | 5SP3725-2KK03 | 5SP3725-2    | 5SP3825-2      |
| 35 A                | 5SP3735-2KK01  | 5SP3735-2KK02 | 5SP3735-2KK03 | 5SP3735-2    | 5SP3835-2      |
| 40 A                | 5SP3740-2KK01  | 5SP3740-2KK02 | 5SP3740-2KK03 | 5SP3740-2    | 5SP3840-2      |
| 50 A                | 5SP3750-2KK01  | 5SP3750-2KK02 | 5SP3750-2KK03 | 5SP3750-2    | 5SP3850-2      |
| 63 A                | 5SP3763-2KK01  | 5SP3763-2KK02 | 5SP3763-2KK03 | 5SP3763-2    | 5SP3863-2      |



## 25 kA, mounting on a DIN rail

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