

5SY6 Miniature Circuit Breakers

High-capacity range, 6 kA

Application

- U_n : 230/400 V, 50-60 Hz, applicable in networks up to 250/440 V AC, 60 V DC per pole
- Standards EN 60898, (VDE 0641 Part 11), IEC 60898
- Supplementary components can be retrofitted
- 70 mm mounting depth




Characteristics C

General line protection, especially advantageous with higher inrush currents (lamps, motors, etc.).

Characteristics D

Tripping range adapted to operating equipment involving significant pulse generation (transformers, solenoid valves).

Selection and ordering data

| 6 000 3 | I_n A | MW | Characteristic C | | | Characteristic D | | | Weight approx. kg | Packing | |
|---|---------------------|-----|------------------|-------------------|-------------|------------------|-------------------|-------------|----------------------|---------|---|
| | | | Order No. | Price £ 1 unit | Price Group | Order No. | Price £ 1 unit | Price Group | | | |
| Miniature circuit breakers 6000 A | | | | | | | | | | | |
|  5SY6 1 | 1P, AC 230/400 V | 0.5 | 1 | 5SY6 105-7 | 8.95 | 003 | 5SY6 105-8 | 9.— | 004 | 0.165 | 1 |
| | | 1 | | 5SY6 101-7 | 8.95 | 003 | 5SY6 101-8 | 9.— | 004 | 0.165 | 1 |
| | | 1.6 | | 5SY6 115-7 | 8.95 | 003 | 5SY6 115-8 | 9.— | 004 | 0.147 | 1 |
| | | 2 | | 5SY6 102-7 | 8.95 | 003 | 5SY6 102-8 | 9.— | 004 | 0.165 | 1 |
| | | 3 | | 5SY6 103-7 | 8.95 | 003 | 5SY6 103-8 | 9.— | 004 | 0.165 | 1 |
| | | 4 | | 5SY6 104-7 | 8.35 | 003 | 5SY6 104-8 | 8.95 | 004 | 0.165 | 1 |
| | | 6 | | 5SY6 106-7 | 8.15 | 003 | 5SY6 106-8 | 8.50 | 004 | 0.165 | 1 |
| | | 8 | | 5SY6 108-7 | 7.45 | 003 | 5SY6 108-8 | 7.85 | 004 | 0.165 | 1 |
| | | 10 | | 5SY6 110-7 | 7.45 | 003 | 5SY6 110-8 | 7.85 | 004 | 0.165 | 1 |
| | | 13 | | 5SY6 113-7 | 7.45 | 003 | 5SY6 113-8 | 7.85 | 004 | 0.165 | 1 |
| | | 16 | | 5SY6 116-7 | 7.45 | 003 | 5SY6 116-8 | 7.85 | 004 | 0.165 | 1 |
| | | 20 | | 5SY6 120-7 | 7.45 | 003 | 5SY6 120-8 | 7.85 | 004 | 0.165 | 1 |
| | | 25 | | 5SY6 125-7 | 7.45 | 003 | 5SY6 125-8 | 7.85 | 004 | 0.165 | 1 |
| | | 32 | | 5SY6 132-7 | 7.45 | 003 | 5SY6 132-8 | 7.85 | 004 | 0.165 | 1 |
| | | 40 | | 5SY6 140-7 | 8.15 | 003 | 5SY6 140-8 | 8.50 | 004 | 0.165 | 1 |
| | | 50 | | 5SY6 150-7 | 8.35 | 003 | 5SY6 150-8 | 8.95 | 004 | 0.165 | 1 |
| | 63 | | 5SY6 163-7 | 8.95 | 003 | 5SY6 163-8 | 9.— | 004 | 0.165 | 1 | |
|  5SY6 2 | 2P, AC 400 V | 0.5 | 2 | 5SY6 205-7 | 24.70 | 003 | 5SY6 205-8 | 26.— | 004 | 0.330 | 1 |
| | | 1 | | 5SY6 201-7 | 24.70 | 003 | 5SY6 201-8 | 26.— | 004 | 0.330 | 1 |
| | | 1.6 | | 5SY6 215-7 | 24.70 | 003 | 5SY6 215-8 | 26.— | 004 | 0.330 | 1 |
| | | 2 | | 5SY6 202-7 | 24.70 | 003 | 5SY6 202-8 | 26.— | 004 | 0.330 | 1 |
| | | 3 | | 5SY6 203-7 | 24.70 | 003 | 5SY6 203-8 | 26.— | 004 | 0.330 | 1 |
| | | 4 | | 5SY6 204-7 | 24.60 | 003 | 5SY6 204-8 | 25.75 | 004 | 0.330 | 1 |
| | | 6 | | 5SY6 206-7 | 23.40 | 003 | 5SY6 206-8 | 24.30 | 004 | 0.330 | 1 |
| | | 8 | | 5SY6 208-7 | 21.60 | 003 | 5SY6 208-8 | 22.40 | 004 | 0.330 | 1 |
| | | 10 | | 5SY6 210-7 | 21.60 | 003 | 5SY6 210-8 | 22.40 | 004 | 0.330 | 1 |
| | | 13 | | 5SY6 213-7 | 21.60 | 003 | 5SY6 213-8 | 22.40 | 004 | 0.330 | 1 |
| | | 16 | | 5SY6 216-7 | 21.60 | 003 | 5SY6 216-8 | 22.40 | 004 | 0.330 | 1 |
| | | 20 | | 5SY6 220-7 | 21.60 | 003 | 5SY6 220-8 | 22.40 | 004 | 0.330 | 1 |
| | | 25 | | 5SY6 225-7 | 21.60 | 003 | 5SY6 225-8 | 22.40 | 004 | 0.330 | 1 |
| | | 32 | | 5SY6 232-7 | 21.60 | 003 | 5SY6 232-8 | 22.40 | 004 | 0.330 | 1 |
| | | 40 | | 5SY6 240-7 | 23.40 | 003 | 5SY6 240-8 | 24.30 | 004 | 0.330 | 1 |
| | | 50 | | 5SY6 250-7 | 24.60 | 003 | 5SY6 250-8 | 25.75 | 004 | 0.330 | 1 |
| | 63 | | 5SY6 263-7 | 24.70 | 003 | 5SY6 263-8 | 26.— | 004 | 0.330 | 1 | |
|  5SY6 3 | 3P, AC 400 V | 0.5 | 3 | 5SY6 305-7 | 37.75 | 003 | 5SY6 305-8 | 37.50 | 004 | 0.495 | 1 |
| | | 1 | | 5SY6 301-7 | 37.75 | 003 | 5SY6 301-8 | 37.50 | 004 | 0.495 | 1 |
| | | 1.6 | | 5SY6 315-7 | 37.75 | 003 | 5SY6 315-8 | 37.50 | 004 | 0.495 | 1 |
| | | 2 | | 5SY6 302-7 | 37.75 | 003 | 5SY6 302-8 | 37.50 | 004 | 0.495 | 1 |
| | | 3 | | 5SY6 303-7 | 37.75 | 003 | 5SY6 303-8 | 37.50 | 004 | 0.495 | 1 |
| | | 4 | | 5SY6 304-7 | 36.25 | 003 | 5SY6 304-8 | 36.50 | 004 | 0.495 | 1 |
| | | 6 | | 5SY6 306-7 | 34.50 | 003 | 5SY6 306-8 | 35.75 | 004 | 0.495 | 1 |
| | | 8 | | 5SY6 308-7 | 32.25 | 003 | 5SY6 308-8 | 33.— | 004 | 0.495 | 1 |
| | | 10 | | 5SY6 310-7 | 32.25 | 003 | 5SY6 310-8 | 33.— | 004 | 0.495 | 1 |
| | | 13 | | 5SY6 313-7 | 32.25 | 003 | 5SY6 313-8 | 33.— | 004 | 0.495 | 1 |
| | | 16 | | 5SY6 316-7 | 32.25 | 003 | 5SY6 316-8 | 33.— | 004 | 0.495 | 1 |
| | | 20 | | 5SY6 320-7 | 32.25 | 003 | 5SY6 320-8 | 33.— | 004 | 0.495 | 1 |
| | | 25 | | 5SY6 325-7 | 32.25 | 003 | 5SY6 325-8 | 33.— | 004 | 0.495 | 1 |
| | | 32 | | 5SY6 332-7 | 32.25 | 003 | 5SY6 332-8 | 33.— | 004 | 0.495 | 1 |
| | | 40 | | 5SY6 340-7 | 34.50 | 003 | 5SY6 340-8 | 35.75 | 004 | 0.495 | 1 |
| | | 50 | | 5SY6 350-7 | 36.25 | 003 | 5SY6 350-8 | 36.50 | 004 | 0.495 | 1 |
| | 63 | | 5SY6 363-7 | 37.75 | 003 | 5SY6 363-8 | 37.50 | 004 | 0.495 | 1 | |

5SY6 Miniature Circuit Breakers

Auxiliary switches

Benefits




- Can be individually retrofitted
- Mounting with factory-installed clips
- Short-circuit protection via miniature circuit-breakers or characteristic C and $I_n = 6$ A or gL 6 A fuses
- Broad range of applications thanks to the additional version for controlling programmable controllers (PLC) acc. to EN 61131-2
- Connectable to *instabus* EIB and AS-Interface bus via binary inputs
- Max. contact load:

| | |
|----------------------|----------------------|
| NO contacts: | NC contacts: |
| 2 A, 400 V AC, AC-14 | 2 A, 400 V AC, AC-13 |
| 6 A, 230 V AC, AC-14 | 6 A, 230 V AC, AC-13 |
| 1 A, 220 V DC, DC-13 | 1 A, 220 V DC, DC-13 |
| 1 A, 110 V DC, DC-13 | 1 A, 110 V DC, DC-13 |
| 3 A, 60 V DC, DC-13 | 3 A, 60 V DC, DC-13 |
| 6 A, 24 V DC, DC-13 | 6 A, 24 V DC, DC-13 |

Functions

- Indication of the miniature circuit-breaker's switching state:
 - AS: ON/OFF

Selection and ordering data

| | | MW | Order No. | Price £ | Price Group | Weight approx. kg | Packing |
|--|--|-----|-----------------|--------------|-------------|-------------------|---------|
| | | | | 1 unit | | | |
| Auxiliary switches | | | | | | | |
|  5ST3 010 | Auxiliary switches (AS) for small output | | | | | | |
| |  1 NO + 1 NC | 0.5 | 5ST3 010 | 14.90 | 027 | 0.050 | 1 |
| |  2 NO | 0.5 | 5ST3 011 | 14.90 | 027 | 0.050 | 1 |

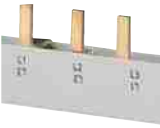

Accessories for 5SY6 miniature circuit breakers

Application

Busbar system

- Acc. to DIN 57606 and DIN 57659
- Load for one-side/central infeed:
 - 65 A/120 A for 16 mm²
- Pin-type connections
- Single and multi-phase
- Cu 16 mm² fully insulated
- 18 mm lug spacing
- No additional connection terminal required for stranded connections up to 35 mm²
- Excellent accessibility of the feeder cables

Selection and ordering data

| | | Length | Order No. | Price £ | Price Group | Weight approx. kg | Packing |
|---|---|--------|-----------------|--------------|-------------|-------------------|---------|
| | | mm | | 1 unit | | 1 kg | |
| 5ST3 7 busbar systems, 16 mm² | | | | | | | |
|  5ST3 7 | Can be cut, without end caps | | | | | | |
| | 1-phase, angled, for MCB 1P | 1016 | 5ST3 701 | 12.20 | 027 | 0.189 | 50 |
| | 2-phase, for MCB 2P | | 5ST3 705 | 34.— | 027 | 0.289 | 20 |
| | 3-phase, for MCB 3P | | 5ST3 710 | 51.— | 027 | 0.430 | 20 |
| End caps for 5ST3 7, can be cut | | | | | | | |
|  5ST3 7 | Required to isolate the ends of cut-to-length busbars | | | | | | |
| | for 1-phase busbars | | 5ST3 748 | 0.53 | 027 | 0.001 | 10 |
| | for 2- and 3-phase busbars | | 5ST3 750 | 0.83 | 027 | 0.001 | 10 |