

Miniature Circuit-Breakers (MCBs) N-Type Standard and AC/DC Product Range

Additional components for 5SX2, 5SX4, 5SX5
miniature circuit-breakers

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Additional components

- Can be retrofitted
- Can be connected to *instabus EIB* and AS-Interface bus via binary inputs.

Auxiliary switch (AS) and fault signal contact (FC)

- Mounting with factory-installed clips
- Max. contact load:
6 A, 230 V AC , AC-15
1 A, 220 V DC , DC-13
acc. to DIN VDE 0660 Part 200, EN 60 947-5-1
- Short-circuit protection due to the 5SX miniature circuit-breaker depending on the version ...-6. -7 with $I_n = 6$ A of fuse gL 6 A.

Application

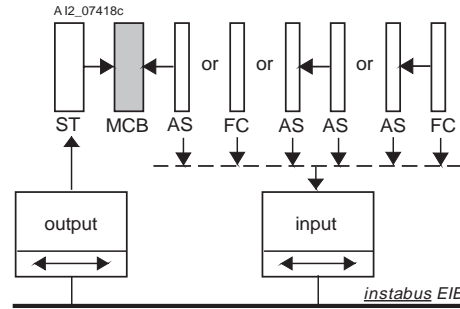
Remote display of the switching status of the miniature circuit-breaker
- AS: ON/OFF
- FC: tripped.

Shunt trip (ST)

- Mounting with attached screws
- Suitable for voltages from 110 to 415 V AC
- Short-circuit protection due to the 5SX...-7 MCBs with $I_n \geq 16$ A

Application

- Remote controlled release of the MCB.



MW	Order No.	Price	Weight 1 item	Pack. unit
		1 item	kg	Items

Auxiliary switches and fault signal contacts



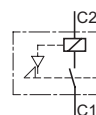
Auxiliary switches (AS)

	1 NO + 1 NC	0.5	5SX9 100	0.040	1
	2 NO		5SX9 101		
	2 NC		5SX9 102		

Fault signal contacts (FC)

	1 NO + 1 NC	0.5	5SX9 200	0.040	1
	2 NO		5SX9 201		
	2 NC		5SX9 202		

Shunt trips (ST) 100% ED



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5SX9 300

0.141 1

For dimension drawings and terminal connections see pages 2/63 to 2/64.

Miniature Circuit-Breakers (MCBs) N-Type Standard and AC/DC Product Range

Accessories for 5SX2, 5SX4, 5SX5 miniature circuit-breakers

5ST2 1 Busbar system





Features

- Acc. to DIN 57 606 and DIN 57 659

- Load at infeed at one end/centered
50 A/90 A for 10 mm²
65 A/120 A for 16 mm²

- Single- and multi-phase
• Cu 10 mm² and 16 mm² fully insulated

- 18 mm lug spacing
• For connection at the bottom, no additional terminal is required.

	Length mm	Order No.	Price	Weight	Pack. unit Items
Cu busbars 10 mm²			1 item	1 item	
	With end caps				
	1-phase	210	5ST2 137	0.090	25
	2-phase		5ST2 138	0.100	10
	3-phase		5ST2 140	0.150	
	Without end caps				
	1-phase	1,000	5ST2 146	0.410	10
	2-phase		5ST2 147	0.520	5
	3-phase		5ST2 148	0.840	10
Cu busbar 16 mm²			1 item	1 item	
	With end caps				
	1-phase	210	5ST2 142	0.100	25
	2-phase		5ST2 143	0.150	10
	3-phase		5ST2 144	0.230	
	3-phase + N		5ST2 145	0.320	
	Without end caps				
	1-phase	1,000	5ST2 151	0.490	10
	2-phase		5ST2 152	0.700	5
	3-phase		5ST2 153	1.100	10
	3-phase + N		5ST2 154	1.500	5
		Without end caps			
		lug spacing is adapted to the busbar of devices			
		1-pole, 2-pole, 3-pole with 1 auxiliary switch each			
	1,000		5ST2 163	0.460	5
			5ST2 164	0.900	5
			5ST2 165	1.490	10
End caps and terminals			1 item	1 item	
	Required to isolate the ends of cut-to-length busbars				
	1- and 2-phase		5ST2 155	0.013	10
	3- and 4-phase		5ST2 156	0.017	
	Terminals up to 35 mm² (stranded)				
	for direct infeed into miniature circuit-breakers from the top or the bottom, can be mounted side by side				
	for busbar 1- and 2-phase		5ST2 166	0.002	10
	for busbar 3- and 4-phase		5ST2 167		
	Terminal 35 mm² (stranded)				
	for direct infeed into the busbar system side-by-side mounting				
			5ST2 157	3.000	10

For application examples of busbars see page 2/5.

Miniature Circuit-Breakers (MCBs) N-Type Standard and AC/DC Product Range

Accessories for 5SX2, 5SX4, 5SX5
miniature circuit-breakers

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5ST2 4 busbar system

Features







- According to IEC 60 664, 500 V (40 °C), fully-insulated
- Load at central infeed: 1-phase up to 70 A 2- to 4-phase up to 120 A.

Application

- Any length can be attained by combining the 3 fixed busbar lengths
- A favorable current and temperature conduction is achieved by overlapping of individual elements

- Time consuming work such as cutting, cutting to length, deburring and cleaning cut surfaces and mounting end caps are all eliminated

- Reliable shock-hazard protection of connections which are not used.

	Order No.	Price	Weight 1 item	Pack. unit	
Number of circuits		1 item	kg	Items	
Cu Busbars					
	1-phase busbar				
	2 x 1	5ST2 400		0.006	20
	6 x 1	5ST2 401		0.017	
	12 x 1	5ST2 402		0.033	
	2 x (1 + AS/FC)	5ST2 403		0.008	
	6 x (1 + AS/FC)	5ST2 404		0.024	
9 x (1 + AS/FC)	5ST2 405		0.035		
	2-phase busbar				
	2 x 2	5ST2 406		0.011	10
	3 x 2	5ST2 407		0.017	
	6 x 2	5ST2 408		0.033	
	2 x (2 + AS/FC)	5ST2 410		0.023	
	3 x (2 + AS/FC)	5ST2 411		0.034	
5 x (2 + AS/FC)	5ST2 412		0.056		
	3-phase busbar				
	2 x 3	5ST2 413		0.037	10
	3 x 3	5ST2 414		0.055	
	4 x 3	5ST2 415		0.086	
	2 x (3 + AS/FC)	5ST2 416		0.057	
	3 x (3 + AS/FC)	5ST2 417		0.065	
	2 x (3 x (1 + AS/FC))	5ST2 418		0.057	
	3 x (3 x (1 + AS/FC))	5ST2 420		0.086	
3-phase busbar, for a 5SM1 RCCB 4-pole with 8 miniature circuit-breakers					
3/N + 8 connections	5ST2 424		0.091	5	
	4-phase busbar				
	2 x 4	5ST2 421		0.046	5
	3 x 4	5ST2 422		0.090	
2 x 3 x (1 + N)	5ST2 423		0.073		
	Feeder terminal				
	for side-by-side mounting, for infeed into the 35 mm ² busbar system (stranded)	5ST2 425		0.024	10
	Shock-hazard protection				
	for free connections, yellow (RAL 1004)	5ST2 426		0.004	

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Mounting and cover parts



	Length mm	Order No.	Price	Weight kg	Pack. unit Items
Cable links					
6 mm ² cross section end sleeves on both ends, 5SX MCBs					
	125	5ST1 292	100 items	0.850	50
	250	5ST1 293		1.700	50
Snap-on terminal					
for 16 mm ² solid or 10 mm ² stranded width 0.5 MW					
		5ST2 112		0.840	50
Spacer					
(contour of N-type MCB, 0.5 MW)					
		5ST2 122		0.900	10
Packer					
to increase the height from 53 to 60 mm snap-snap adapter 1 MW					
		5ST2 120		0.200	10
Fixing parts					
1 MW (sheet metal)					
		5ST2 121	1 item	1.700	10
4 MW (plastic)					
		5ST2 201		0.012	20
Handle locking device					
for 1-pole 5SX N-type MCBs for protecting against unintended mechanical switching (red part) disconnection (transparent part)					
		5ST2 168 5ST2 170	1 item	0.007	1
Terminal cover, gray					
surface mounting, degree of protection IP 40 with 35 mm standard mounting rail, sealable up to 2.5 MW up to 4.5 MW					
		5SW3 004 5SW3 005		0.090 0.120	10 5
flush mounting, degree of protection IP 40 with 35 mm standard mounting rail up to 2.5 MW up to 4.5 MW					
		5SW3 006 5SW3 007		0.130 0.150	10 5
Molded-plastic enclosure					
surface mounting, IP 54 with 35 mm stan- dard mounting rail, sealable with transparent flap up to 4.5 MW					
		5SW1 200		0.500	1
Cover					
for assembly of mini distribution boards cover parts are prepared for mounting of standard label caps consisting of					
		5ST2 134		0.022	10
• end plate (can be snapped onto standard mounting rail)					
		5ST2 135		0.330	5
• angled profile (approx. 1 m long)					
		5ST2 136		0.260	
• or alternatively flat profile (as cover be- tween the rows of devices).					