

Miniature Circuit-Breakers (MCBs) High-Current Product Range



10 000

5SP4 miniature circuit-breakers 10 kA, AC model

Features

- U_n : 230/400 V, 50-60 Hz applicable in networks up to 250/440 V AC, 60 V DC per pole
- Standards: IEC 60 898, EN 60 898, EN 60 204, DIN VDE 0641 Part 11
- 70 mm device mounting depth
- Additional components can be retrofitted.









Application

- As main switch and miniature circuit-breaker in functional buildings and industry
- Characteristic B: Cable and line protection mainly in socket outlet circuits, proof regarding shock-hazard protection is not required.

Advantages

- Main switch characteristics according to EN 60 204
- Can be snapped onto standard mounting rails acc. to DIN EN 50 022.
- Can be screwed onto base.

Selection and ordering data

	I_n	MW	Order No.	Price	Weight 1 item	Pack. unit
	A			1 item	kg	Items
Characteristic B						
	1-pole			5SP4 180-6 5SP4 191-6 5SP4 192-6	0.260	6
	80	1.5				
	100					
	2-pole			5SP4 280-6 5SP4 291-6 5SP4 292-6	0.516	3
	80	3				
	100					
	3-pole			5SP4 380-6 5SP4 391-6 5SP4 392-6	0.760	2
	80	4.5				
	100					
	4-pole			5SP4 480-6 5SP4 491-6 5SP4 492-6	1.000	1
	80	6				
	100					
	125					

For additional components see pages 2/60 and 2/61.

For accessories see page 2/60.

For dimension drawings and terminal connections see page 2/64.



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



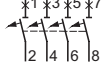
5SP4 miniature circuit-breakers
10 kA, AC model

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Application

Characteristic C:
General cable and line protection,
especially advantageous
with high inrush currents
(lamps, motors etc.).

Selection and ordering data

	I_n	MW	Order No.	Price	Weight 1 item	Pack. unit	
	A			1 item	kg	Items	
Characteristic C							
	1-pole		5SP4 180-7 5SP4 191-7 5SP4 192-7		0.260	6	
		80 100 125					1.5
	2-pole		5SP4 280-7 5SP4 291-7 5SP4 292-7		0.510	3	
		80 100 125					3
	3-pole		5SP4 380-7 5SP4 391-7 5SP4 392-7		0.760	2	
		80 100 125					4.5
	4-pole		5SP4 480-7 5SP4 491-7 5SP4 492-7		1.000	1	
		80 100 125					6

For additional components see pages 2/60 and 2/61.

For accessories see page 2/60.

For dimension drawings and terminal connections see page 2/64.

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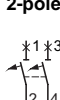

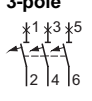

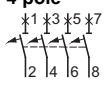
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5SP4 miniature circuit-breakers 10 kA, AC model

Application

Characteristic D:
The tripping range has been matched to applications involving equipment generating significant pulses (transformers, solenoid valves).

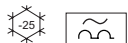
Selection and ordering data

	I_n	MW	Order No.	Price	Weight 1 item	Pack. unit
Characteristic D	A			1 item	kg	Items
 <p>1-pole</p> 	80	1.5	5SP4 180-8 5SP4 191-8		0.260	6
	100					
 <p>2-pole</p> 	80	3	5SP4 280-8 5SP4 291-8		0.510	3
	100					
 <p>3-pole</p> 	80	4.5	5SP4 380-8 5SP4 391-8		0.760	2
	100					
 <p>4-pole</p> 	80	6	5SP4 480-8 5SP4 491-8		1.000	1
	100					

For additional components see pages 2/60 and 2/61.

For accessories see page 2/60.

For dimension drawings and terminal connections see page 2/64.



Miniature Circuit-Breakers (MCBs) Industry Guard/High Current Product Range

Additional components for 5SY4, 5SY7, 5SP4 miniature circuit-breakers

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Features

- Standards: EN 61 009-1, EN 61 009-2-1, IEC 61 009-1 and IEC 61 009-2-1
- In combination with miniature circuit-breakers with characteristic B and C, can be retro-fitted
- Rated voltage: 2-pole 125 V AC up to 230 V, 50 Hz up to 60 Hz
4-pole 230 V AC up to 400 V, 50 Hz up to 60 Hz
- Applicable in networks: 2-pole 230 V AC, 125/240 V AC
4-pole 220/380 V AC, 230/400 V AC, 240/415 V AC.

Selection and ordering data

	$I_{\Delta n}$ mA	I_n A	MW	Order No.	Price 1 item	Weight 1 item kg	Pack. unit Items
RCCB module for 5SY4, 5SY7 miniature circuit-breakers for AC and pulsating DC fault currents							
	2-pole						
		30	6/40	2	5SM2 322-6	0.245	1
		300	6/40		5SM2 622-6	0.350	
		30	6/63		5SM2 325-6		
	300	6/63		5SM2 625-6			
	2-pole, for selective disconnection S						
	300	6/40	2	5SM2 622-8		0.350	1
		6/63		5SM2 625-8			
	4-pole						
		30	6/40	3	5SM2 342-6	0.365	1
		300	6/40		5SM2 642-6	0.400	
		30	6/63		5SM2 345-6		
	300	6/63		5SM2 645-6			
	4-pole, for selective disconnection S						
	300	6/40	3	5SM2 645-8		0.400	1
	1,000	6/63		5SM2 845-8			
RCCB module for 5SP4 miniature circuit-breakers for AC and pulsating DC fault currents							
	2-pole						
		30	80/100	3.5	5SM2 327-6	0.550	1
		300	80/100	3.5	5SM2 627-6		
	2-pole, for selective disconnection S						
	300	80/100	3.5	5SM2 627-8		0.550	1
	4-pole						
		30	80/100	5	5SM2 347-6	0.944	1
		300	80/100	5	5SM2 647-6		
	4-pole, for selective disconnection S						
	300	80/100	5	5SM2 647-8		0.950	1
	1,000	80/100	5	5SM2 847-8			

For dimension drawings and terminal connections see page 2/64.

Miniature Circuit-Breakers (MCBs) Industry Guard/High-Current Product Range

Additional components for 5SY4/5SY7/5SP4 miniature circuit-breakers

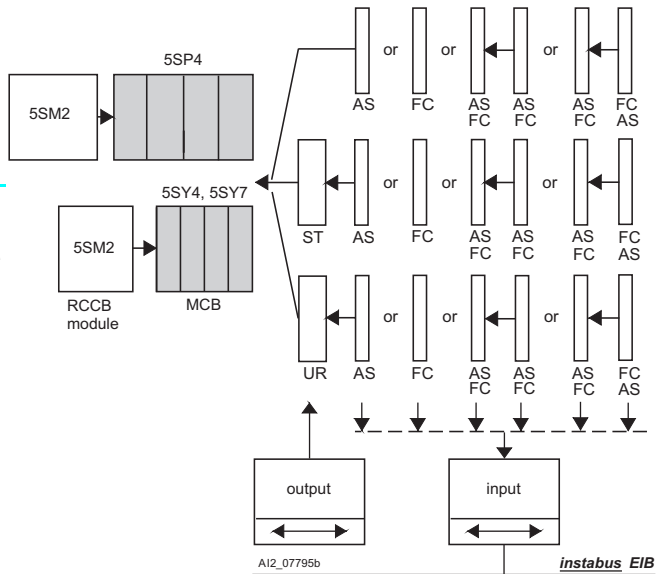
- Features**
- Can be retrofitted
 - Mounting with factory-installed clips
 - Short-circuit protection due to miniature circuit-breakers with characteristic B or C and $I_n = 6\text{ A}$ or fuse gL 6 A

Application

Remote display of the switching status of the miniature circuit-breaker

- AS: ON/OFF
- FC: tripped.

- Auxiliary switches (AS) and fault signal contacts (FC)**
- Max. contact load:
NO contact:
2 A, 400 V AC, AC-14
6 A, 230 V AC, AC-13
1 A, 220 V DC, DC-13
1 A, 110 V DC, DC-13
3 A, 60 V DC, DC-13
6 A, 24 V DC, DC-13
NC contact:
2 A, 400 V AC, AC-13
6 A, 230 V AC, AC-13
1 A, 220 V DC, DC-13
1 A, 110 V DC, DC-13
3 A, 60 V DC, DC-13
6 A, 24 V DC, DC-13
 - Can be connected to *instabus EIB* and AS-Interface bus.



Selection and ordering data

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

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



Auxiliary switches (AS)

	1 NO + 1 NC	0.5
	2 NO	
	2 NC	

Fault signal contacts (FC)

	1 NO + 1 NC	0.5
	2 NO	
	2 NC	

5ST3 010	0.050	1
5ST3 011		
5ST3 012		
5ST3 020	0.050	1
5ST3 021		
5ST3 022		

For dimension drawings and terminal connections see page 2/64.

Miniature Circuit-Breakers (MCBs) Industry Guard/High-Current Product Range

Additional components for 5SY4/5SY7/5SP4
miniature circuit-breakers

2

Shunt trips

Features

- Operating limit acc. to DIN VDE 0660 Part 100, 7.2.1.4

- For voltages:
110 up to 415 V AC, 110 V DC
24 up to 48 V DC

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

Application

Remote-controlled tripping of the MCB.

Undervoltage release

Features

- Operating limits acc. to DIN VDE 0660 Part 100, 7.2.1.3


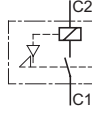

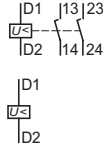
- For voltages:
230 V AC
110 V DC
24 V AC
- Can be connected via binary outputs to *instabus* EIB und AS-Interface bus.

Application

- Can be used as remote release in an EMERGENCY STOP circuit
- Ensures disconnection of the control circuit acc. to EN 60 204

- In the event of an interrupted voltage or undervoltage, the undervoltage release trips the miniature circuit-breaker or prevents it from being switched on.

Selection and ordering data

		MW	Order No.	Price 1 item	Weight 1 item kg	Pack. unit Items
Shunt trip (ST)						
		110-415 V AC	1	5ST3 030	0.090	1
		24-48 V DC	1			
Undervoltage release (UR)						
		230 V AC	1	5ST3 040 5ST3 041 5ST3 042	0.115	1
		110 V DC				
		24 V DC				
		230 V AC	1	5ST3 043 5ST3 044 5ST3 045		
		110 V DC				
		24 V DC				

For dimension drawings and terminal connections see page 2/64.

Miniature Circuit-Breakers (MCBs) Industry Guard/High-Current Product Range

Accessories for 5SY4/5SY7/5SP4 miniature circuit-breakers

Selection and ordering data



	Order No.	Price	Weight 1 item kg	Pack. unit Items
Handle locking device for all types of poles sealable to prevent unauthorized mechanical closing and opening, padlock with max. 3 mm shackle	5ST3 801	1 item	0.007	1
Terminal cover for all types of poles as an additional cover of screw openings also prevents the removal of the device from the standard mounting rail, sealable	5ST3 800		0.001	10
Padlock NEW for handle locking device 5ST3 801	5ST3 802		0.020	1
Locking mechanism NEW consisting of 5ST3 801 handle locking device and 5ST3 802 padlock	5ST3 803	1 set	1 set 0.027	1 set
Labeling system NEW Features <ul style="list-style-type: none"> • self-adhesive labels • inscription is possible <ul style="list-style-type: none"> - by hand with non-smearing waterproof markers - using computer-controlled labeling systems. Advantages <ul style="list-style-type: none"> • Time and cost saving • Standard size with legible inscription • All types of inscriptions are possible • Simple data entry and program handling via interactive dialogs • The labeling program can be downloaded free of charge at www.industry-guards.de. 				