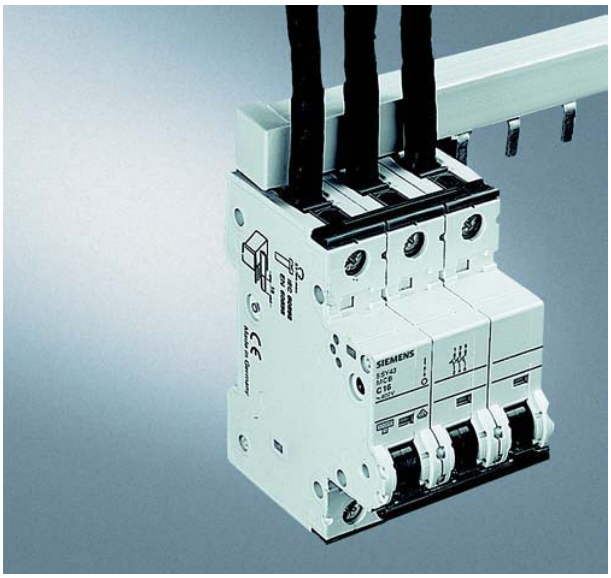
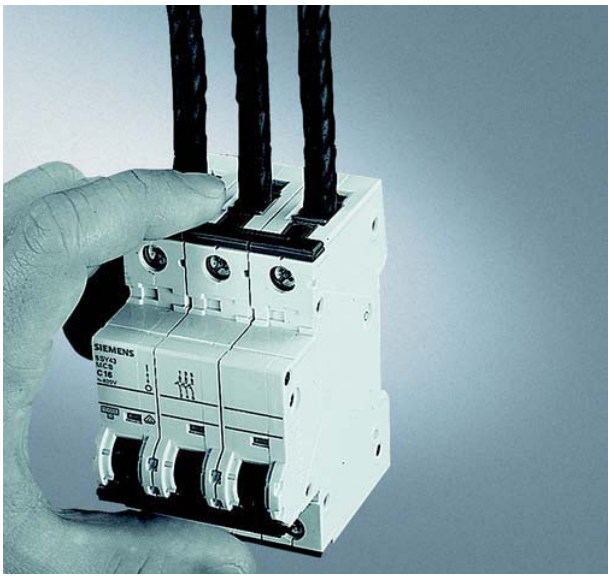
Benefits

Features of 5SY miniature circuit-breakers



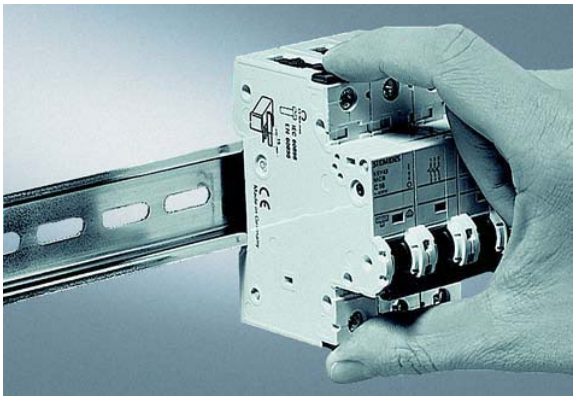
Easier, faster, enlarged wiring space

- Identical top and bottom terminals
- Connection of feeder cables vis-à-vis of the busbar
- Enlarged and easily accessible wiring space for the feeder cables
- Comfortable insertion of the feeder cables into the terminal
- Defined, visible and controllable connection of the feeder cables
- Universal infeed with top and bottom busbar mounting options.



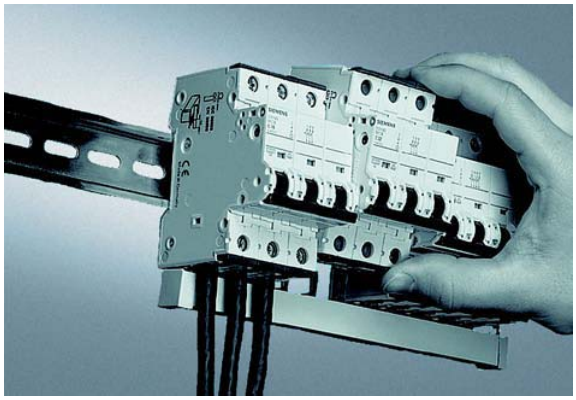
Touch protection with clear advantages

- Integrated movable terminal covers located at the feeder cable input section
- The terminals are completely closed when screws are fully tightened
- Effective touch protection, also when the device is fully grabbed
- The requirements specified in the German VBG 4/BGV A2 accident prevention regulations are exceeded by far.



Flexible and no use of tools required

- Manually operable quick-assembly and disassembly systems not requiring the use of tools
- Fast assembly and disassembly of the 5SY miniature circuit-breakers to and from the standard mounting rail acc. to EN 60175
- All devices can be easily and comfortably replaced at any time.



Removal from the assembly

Thanks to the combination of the various features stated above, the 5SY miniature circuit-breakers can be easily and rapidly removed from the assembly when circuits need to be changed - with these devices, a removal of the busbar is no longer necessary.

6 kA
70 mm mounting depth

2

Area of application

- U_n: AC 230 V, 50-60 Hz
- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898

Characteristic B

Line protection, mainly used for outlet circuits; no proof required regarding personal safety.

Characteristic C

General line protection, especially advantageous with higher in-rush currents (lamps, motors, etc.).

Selection and ordering data

1-pole + N

I_n	MW	DC	Characteristic B Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.
A					kg				kg
2	1		-			A	**5SY6 002-7KV**	12	0.132
4			-			A	**5SY6 004-7KV**	12	0.132
6		A	**5SY6 006-6KV**	12	0.132	A	**5SY6 006-7KV**	12	0.132
8			-			A	**5SY6 008-7KV**	12	0.132
10		A	**5SY6 010-6KV**	12	0.132	A	**5SY6 010-7KV**	12	0.132
13		A	**5SY6 013-6KV**	12	0.132	A	**5SY6 013-7KV**	12	0.132
16		A	**5SY6 016-6KV**	12	0.132	A	**5SY6 016-7KV**	12	0.132
20		A	**5SY6 020-6KV**	12	0.132	A	**5SY6 020-7KV**	12	0.132
25		A	**5SY6 025-6KV**	12	0.132	A	**5SY6 025-7KV**	12	0.132
32		A	**5SY6 032-6KV**	12	0.132	A	**5SY6 032-7KV**	12	0.132
40		A	**5SY6 040-6KV**	12	0.132	A	**5SY6 040-7KV**	12	0.132

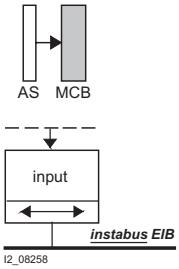
Benefits

Auxiliary switch (AS)

- Can be retrofitted individually
- Mounting with factory-installed clips
- max. contact loading acc. to DIN VDE 0660 Part 200, EN 60947-5-1:
  6 A, AC 230 V, AC-15
  1 A, DC 220 V, DC-13
- Short-circuit protection ensured by circuit-breakers with characteristic B or C with I_n = 6 A or fuse gL 6 A
- Conductor cross-section 0.5 to 2.5 mm^2

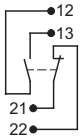
Functions

- Remote indication of the miniature circuit-breaker's switching state: AS: ON/OFF
- Connectable to *instabus EIB* and AS-Interface bus via binary inputs.



Selection and ordering data

Auxiliary switch (AS)



	MW	DC	Order No.	Pack. unit*	Weight per unit approx.
					kg
1 NO + 1 NC	0.5	A	**5ST3 018-0KV**	1	0.037

*** This quantity or a multiple thereof can be ordered.**

Area of application

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

Characteristic B

Line protection, mainly used for outlet circuits; no proof required regarding personal safety.

Selection and ordering data

		I_n	MW	DC	Characteristic B Order No.	Pack. unit*	Weight per unit approx.
		A					kg
	**1-pole** 	6	1	A	**5SY6 106-6**	12	0.165
		10		A	**5SY6 110-6**	12	0.165
		13		A	**5SY6 113-6**	12	0.165
		16		A	**5SY6 116-6**	12	0.165
		20		B	**5SY6 120-6**	12	0.165
		25		A	**5SY6 125-6**	12	0.165
		32[1]		A	**5SY6 132-6**	12	0.165
		40		A	**5SY6 140-6**	12	0.165
		50		A	**5SY6 150-6**	12	0.165
		63		A	**5SY6 163-6**	12	0.165
	**1-pole + N**	6	2	A	**5SY6 506-6**	6	0.330
		10		A	**5SY6 510-6**	6	0.330
		13		B	**5SY6 513-6**	6	0.330
		16		A	**5SY6 516-6**	6	0.330
		20		A	**5SY6 520-6**	6	0.330
		25		A	**5SY6 525-6**	6	0.330
		32		B	**5SY6 532-6**	6	0.330
		40		B	**5SY6 540-6**	6	0.330
		50		B	**5SY6 550-6**	6	0.330
		63		B	**5SY6 563-6**	6	0.330
	**2-pole** 	6	2	A	**5SY6 206-6**	6	0.330
		10		A	**5SY6 210-6**	6	0.330
		13		A	**5SY6 213-6**	6	0.330
		16		A	**5SY6 216-6**	6	0.330
		20		A	**5SY6 220-6**	6	0.330
		25		A	**5SY6 225-6**	6	0.330
		32		B	**5SY6 232-6**	6	0.330
		40		A	**5SY6 240-6**	6	0.330
		50		B	**5SY6 250-6**	6	0.330
		63		B	**5SY6 263-6**	6	0.330
	**3-pole** 	6	3	B	**5SY6 306-6**	4	0.495
		10		B	**5SY6 310-6**	4	0.495
		13		B	**5SY6 313-6**	4	0.495
		16		A	**5SY6 316-6**	4	0.495
		20		A	**5SY6 320-6**	4	0.495
		25		A	**5SY6 325-6**	4	0.495
		32[1]		A	**5SY6 332-6**	4	0.495
		40		B	**5SY6 340-6**	4	0.495
		50		A	**5SY6 350-6**	4	0.495
		63		A	**5SY6 363-6**	4	0.495
	**3-pole + N** 	6	4	B	**5SY6 606-6**	3	0.660
		10		A	**5SY6 610-6**	3	0.660
		13		B	**5SY6 613-6**	3	0.660
		16		A	**5SY6 616-6**	3	0.660
		20		B	**5SY6 620-6**	3	0.660
		25		B	**5SY6 625-6**	3	0.660
		32		A	**5SY6 632-6**	3	0.660
		40		B	**5SY6 640-6**	3	0.660
		50		B	**5SY6 650-6**	3	0.660
		63		B	**5SY6 663-6**	3	0.660
	**4-pole** 	6	4	B	**5SY6 406-6**	3	0.660
		10		A	**5SY6 410-6**	3	0.660
		13		B	**5SY6 413-6**	3	0.660
		16		A	**5SY6 416-6**	3	0.660
		20		B	**5SY6 420-6**	3	0.660
		25		B	**5SY6 425-6**	3	0.660
		32		B	**5SY6 432-6**	3	0.660
		40		B	**5SY6 440-6**	3	0.660
		50		A	**5SY6 450-6**	3	0.660
		63		A	**5SY6 463-6**	3	0.660

1) Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

All 5SY6 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

For supplementary components, please see page 2/57.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

6 kA
70 mm mounting depth

2

Area of application

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

Characteristic C

General line protection, especially advantageous with higher in-rush currents (lamps, motors, etc.).

Characteristic D

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

Selection and ordering data

		I_n	MW	DC	Characteristic C	Pack. unit*	Weight per unit approx.	DC	Characteristic D	Pack. unit*	Weight per unit approx.
					Order No.				Order No.		
		A					kg				kg
	**1-pole** 	0.3	1	C	**5SY6 114-7**	12	0.165	C	**5SY6 114-8**	12	0.165
		0.5		A	**5SY6 105-7**	12	0.165	C	**5SY6 105-8**	12	0.165
		1		A	**5SY6 101-7**	12	0.165	A	**5SY6 101-8**	12	0.165
		1.6		B	**5SY6 115-7**	12	0.165	C	**5SY6 115-8**	12	0.147
		2		A	**5SY6 102-7**	12	0.165	A	**5SY6 102-8**	12	0.165
		3		A	**5SY6 103-7**	12	0.165	A	**5SY6 103-8**	12	0.165
		4		A	**5SY6 104-7**	12	0.165	A	**5SY6 104-8**	12	0.165
		6		A	**5SY6 106-7**	12	0.165	A	**5SY6 106-8**	12	0.165
		8		A	**5SY6 108-7**	12	0.165	A	**5SY6 108-8**	12	0.165
		10		A	**5SY6 110-7**	12	0.165	A	**5SY6 110-8**	12	0.165
		13		A	**5SY6 113-7**	12	0.165	C	**5SY6 113-8**	12	0.165
		16		A	**5SY6 116-7**	12	0.165	A	**5SY6 116-8**	12	0.165
		20		A	**5SY6 120-7**	12	0.165	A	**5SY6 120-8**	12	0.165
		25		A	**5SY6 125-7**	12	0.165	A	**5SY6 125-8**	12	0.165
		32 [1]		A	**5SY6 132-7**	12	0.165	C	**5SY6 132-8**	12	0.165
		40		A	**5SY6 140-7**	12	0.165	C	**5SY6 140-8**	12	0.165
		50		A	**5SY6 150-7**	12	0.165	C	**5SY6 150-8**	12	0.165
		63		A	**5SY6 163-7**	12	0.165	C	**5SY6 163-8**	12	0.165
	**1-pole + N** 	0.3	2	A	**5SY6 514-7**	6	0.330	C	**5SY6 514-8**	6	0.330
		0.5		A	**5SY6 505-7**	6	0.330	C	**5SY6 505-8**	6	0.330
		1		C	**5SY6 501-7**	6	0.330	C	**5SY6 501-8**	6	0.330
		1.6		C	**5SY6 515-7**	6	0.330	C	**5SY6 515-8**	6	0.330
		2		A	**5SY6 502-7**	6	0.330	C	**5SY6 502-8**	6	0.330
		3		C	**5SY6 503-7**	6	0.330	C	**5SY6 503-8**	6	0.330
		4		A	**5SY6 504-7**	6	0.330	C	**5SY6 504-8**	6	0.330
		6		A	**5SY6 506-7**	6	0.330	C	**5SY6 506-8**	6	0.330
		8		C	**5SY6 508-7**	6	0.330	C	**5SY6 508-8**	6	0.330
		10		A	**5SY6 510-7**	6	0.330	C	**5SY6 510-8**	6	0.330
		13		A	**5SY6 513-7**	6	0.330	C	**5SY6 513-8**	6	0.330
		16		A	**5SY6 516-7**	6	0.330	C	**5SY6 516-8**	6	0.330
		20		A	**5SY6 520-7**	6	0.330	C	**5SY6 520-8**	6	0.330
		25		A	**5SY6 525-7**	6	0.330	C	**5SY6 525-8**	6	0.330
		32		A	**5SY6 532-7**	6	0.330	C	**5SY6 532-8**	6	0.330
		40		A	**5SY6 540-7**	6	0.330	C	**5SY6 540-8**	6	0.330
		50		A	**5SY6 550-7**	6	0.330	C	**5SY6 550-8**	6	0.330
		63		C	**5SY6 563-7**	6	0.330	C	**5SY6 563-8**	6	0.330
	**2-pole** 	0.3	2	C	**5SY6 214-7**	6	0.330	C	**5SY6 214-8**	6	0.330
		0.5		A	**5SY6 205-7**	6	0.330	A	**5SY6 205-8**	6	0.330
		1		A	**5SY6 201-7**	6	0.330	A	**5SY6 201-8**	6	0.330
		1.6		B	**5SY6 215-7**	6	0.330	A	**5SY6 215-8**	6	0.330
		2		A	**5SY6 202-7**	6	0.330	A	**5SY6 202-8**	6	0.330
		3		A	**5SY6 203-7**	6	0.330	A	**5SY6 203-8**	6	0.330
		4		A	**5SY6 204-7**	6	0.330	A	**5SY6 204-8**	6	0.330
		6		A	**5SY6 206-7**	6	0.330	A	**5SY6 206-8**	6	0.330
		8		A	**5SY6 208-7**	6	0.330	A	**5SY6 208-8**	6	0.330
		10		A	**5SY6 210-7**	6	0.330	A	**5SY6 210-8**	6	0.330
		13		A	**5SY6 213-7**	6	0.330	C	**5SY6 213-8**	6	0.330
		16		A	**5SY6 216-7**	6	0.330	A	**5SY6 216-8**	6	0.330
		20		A	**5SY6 220-7**	6	0.330	A	**5SY6 220-8**	6	0.330
		25		A	**5SY6 225-7**	6	0.330	A	**5SY6 225-8**	6	0.330
		32		A	**5SY6 232-7**	6	0.330	A	**5SY6 232-8**	6	0.330
		40		A	**5SY6 240-7**	6	0.330	C	**5SY6 240-8**	6	0.330
		50		A	**5SY6 250-7**	6	0.330	C	**5SY6 250-8**	6	0.330
		63		B	**5SY6 263-7**	6	0.330	C	**5SY6 263-8**	6	0.330

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For supplementary components, please see page 2/57.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

Selection and ordering data

		I_n	MW	DC	Characteristic C	Pack. unit*	Weight per unit approx.	DC	Characteristic D	Pack. unit*	Weight per unit approx.
					Order No.				Order No.		
		A					kg				kg
	**3-pole**										
		0.3	3	C	**5SY6 314-7**	4	0.495	C	**5SY6 314-8**	4	0.495
		0.5		C	**5SY6 305-7**	4	0.495	C	**5SY6 305-8**	4	0.495
		1		C	**5SY6 301-7**	4	0.495	A	**5SY6 301-8**	4	0.495
		1.6		C	**5SY6 315-7**	4	0.495	C	**5SY6 315-8**	4	0.495
		2		A	**5SY6 302-7**	4	0.495	A	**5SY6 302-8**	4	0.495
		3		A	**5SY6 303-7**	4	0.495	A	**5SY6 303-8**	4	0.495
		4		A	**5SY6 304-7**	4	0.495	A	**5SY6 304-8**	4	0.495
		6		A	**5SY6 306-7**	4	0.495	A	**5SY6 306-8**	4	0.495
		8		C	**5SY6 308-7**	4	0.495	C	**5SY6 308-8**	4	0.495
		10		A	**5SY6 310-7**	4	0.495	A	**5SY6 310-8**	4	0.495
		13		A	**5SY6 313-7**	4	0.495	C	**5SY6 313-8**	4	0.495
		16		A	**5SY6 316-7**	4	0.495	A	**5SY6 316-8**	4	0.495
		20		A	**5SY6 320-7**	4	0.495	A	**5SY6 320-8**	4	0.495
		25		A	**5SY6 325-7**	4	0.495	A	**5SY6 325-8**	4	0.495
		32[1]		A	**5SY6 332-7**	4	0.495	A	**5SY6 332-8**	4	0.495
		40		A	**5SY6 340-7**	4	0.495	A	**5SY6 340-8**	4	0.495
		50		A	**5SY6 350-7**	4	0.495	A	**5SY6 350-8**	4	0.495
		63		A	**5SY6 363-7**	4	0.495	A	**5SY6 363-8**	4	0.495
	**3-pole + N**										
		0.3	4	C	**5SY6 614-7**	3	0.660	C	**5SY6 614-8**	3	0.660
		0.5		C	**5SY6 605-7**	3	0.660	C	**5SY6 605-8**	3	0.660
		1		C	**5SY6 601-7**	3	0.660	C	**5SY6 601-8**	3	0.660
		1.6		C	**5SY6 615-7**	3	0.660	C	**5SY6 615-8**	3	0.660
		2		C	**5SY6 602-7**	3	0.660	C	**5SY6 602-8**	3	0.660
		3		C	**5SY6 603-7**	3	0.660	C	**5SY6 603-8**	3	0.660
		4		C	**5SY6 604-7**	3	0.660	C	**5SY6 604-8**	3	0.660
		6		C	**5SY6 606-7**	3	0.660	C	**5SY6 606-8**	3	0.660
		8		C	**5SY6 608-7**	3	0.660	C	**5SY6 608-8**	3	0.660
		10		A	**5SY6 610-7**	3	0.660	C	**5SY6 610-8**	3	0.660
		13		A	**5SY6 613-7**	3	0.660	C	**5SY6 613-8**	3	0.660
		16		A	**5SY6 616-7**	3	0.660	C	**5SY6 616-8**	3	0.660
		20		A	**5SY6 620-7**	3	0.660	C	**5SY6 620-8**	3	0.660
		25		A	**5SY6 625-7**	3	0.660	C	**5SY6 625-8**	3	0.660
		32		A	**5SY6 632-7**	3	0.660	C	**5SY6 632-8**	3	0.660
		40		A	**5SY6 640-7**	3	0.660	C	**5SY6 640-8**	3	0.660
		50		A	**5SY6 650-7**	3	0.660	C	**5SY6 650-8**	3	0.660
		63		A	**5SY6 663-7**	3	0.660	C	**5SY6 663-8**	3	0.660
	**4-pole**										
		0.3	4	C	**5SY6 414-7**	3	0.660	C	**5SY6 414-8**	3	0.660
		0.5		C	**5SY6 405-7**	3	0.660	C	**5SY6 405-8**	3	0.660
		1		A	**5SY6 401-7**	3	0.660	C	**5SY6 401-8**	3	0.660
		1.6		C	**5SY6 415-7**	3	0.660	C	**5SY6 415-8**	3	0.660
		2		C	**5SY6 402-7**	3	0.660	C	**5SY6 402-8**	3	0.660
		3		C	**5SY6 403-7**	3	0.660	C	**5SY6 403-8**	3	0.660
		4		A	**5SY6 404-7**	3	0.660	C	**5SY6 404-8**	3	0.660
		6		A	**5SY6 406-7**	3	0.660	C	**5SY6 406-8**	3	0.660
		8		C	**5SY6 408-7**	3	0.660	C	**5SY6 408-8**	3	0.660
		10		A	**5SY6 410-7**	3	0.660	A	**5SY6 410-8**	3	0.660
		13		A	**5SY6 413-7**	3	0.660	C	**5SY6 413-8**	3	0.660
		16		A	**5SY6 416-7**	3	0.660	A	**5SY6 416-8**	3	0.660
		20		A	**5SY6 420-7**	3	0.660	A	**5SY6 420-8**	3	0.660
		25		A	**5SY6 425-7**	3	0.660	A	**5SY6 425-8**	3	0.660
		32		A	**5SY6 432-7**	3	0.660	A	**5SY6 432-8**	3	0.660
		40		A	**5SY6 440-7**	3	0.660	A	**5SY6 440-8**	3	0.660
		50		A	**5SY6 450-7**	3	0.660	A	**5SY6 450-8**	3	0.660
		63		A	**5SY6 463-7**	3	0.660	A	**5SY6 463-8**	3	0.660

1) Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

All 5SY6 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

For supplementary components, please see page 2/57.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

10 000
3

2

10 kA
70 mm mounting depth

Area of application

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

Characteristic A

- For limited semiconductor protection
- Protection of measuring circuits with converters
- Protection of circuits with large cable lengths and a requirement for off-switching after 0.4 s acc. to DIN VDE 0100 Part 410.

Characteristic B

Line protection, mainly used for outlet circuits; no proof required regarding personal safety.

Selection and ordering data

		I_n	MW	DC	Characteristic A	Pack. unit*	Weight per unit approx.	DC	Characteristic B	Pack. unit*	Weight per unit approx.
					Order No.				Order No.		
		A					kg				kg
	**1-pole** 	1	1	C	**5SY4 101-5**	12	0.165		**-**		
		1.6		A	**5SY4 115-5**	12	0.165		**-**		
		2		B	**5SY4 102-5**	12	0.165		**-**		
		3		C	**5SY4 103-5**	12	0.165		**-**		
		4		A	**5SY4 104-5**	12	0.165		**-**		
		6		A	**5SY4 106-5**	12	0.165	A	**5SY4 106-6**	12	0.165
		8		C	**5SY4 108-5**	12	0.165		**-**		
		10		B	**5SY4 110-5**	12	0.165	A	**5SY4 110-6**	12	0.165
		13		C	**5SY4 113-5**	12	0.165	A	**5SY4 113-6**	12	0.165
		16		A	**5SY4 116-5**	12	0.165	A	**5SY4 116-6**	12	0.165
		20		A	**5SY4 120-5**	12	0.165	A	**5SY4 120-6**	12	0.165
		25		C	**5SY4 125-5**	12	0.165	A	**5SY4 125-6**	12	0.165
		32 [1]		C	**5SY4 132-5**	12	0.165	A	**5SY4 132-6**	12	0.165
		40		C	**5SY4 140-5**	12	0.165	B	**5SY4 140-6**	12	0.165
		50		C	**5SY4 150-5**	12	0.165	A	**5SY4 150-6**	12	0.165
		63		C	**5SY4 163-5**	12	0.165	A	**5SY4 163-6**	12	0.165
	**1-pole + N** 	1	2	C	**5SY4 501-5**	6	0.330		**-**		
		1.6		C	**5SY4 515-5**	6	0.330		**-**		
		2		C	**5SY4 502-5**	6	0.330		**-**		
		3		C	**5SY4 503-5**	6	0.330		**-**		
		4		C	**5SY4 504-5**	6	0.330		**-**		
		6		C	**5SY4 506-5**	6	0.330	B	**5SY4 506-6**	6	0.330
		8		C	**5SY4 508-5**	6	0.330		**-**		
		10		C	**5SY4 510-5**	6	0.330	A	**5SY4 510-6**	6	0.330
		13		C	**5SY4 513-5**	6	0.330	A	**5SY4 513-6**	6	0.330
		16		C	**5SY4 516-5**	6	0.330	A	**5SY4 516-6**	6	0.330
		20		C	**5SY4 520-5**	6	0.330	C	**5SY4 520-6**	6	0.330
		25		C	**5SY4 525-5**	6	0.330	C	**5SY4 525-6**	6	0.330
		32		C	**5SY4 532-5**	6	0.330	C	**5SY4 532-6**	6	0.330
		40		C	**5SY4 540-5**	6	0.330	C	**5SY4 540-6**	6	0.330
		50		C	**5SY4 550-5**	6	0.330	C	**5SY4 550-6**	6	0.330
		63		C	**5SY4 563-5**	6	0.330	C	**5SY4 563-6**	6	0.330
	**2-pole** 	1	2	A	**5SY4 201-5**	6	0.330		**-**		
		1.6		C	**5SY4 215-5**	6	0.330		**-**		
		2		C	**5SY4 202-5**	6	0.330		**-**		
		3		C	**5SY4 203-5**	6	0.330		**-**		
		4		C	**5SY4 204-5**	6	0.330		**-**		
		6		C	**5SY4 206-5**	6	0.330	A	**5SY4 206-6**	6	0.330
		8		C	**5SY4 208-5**	6	0.330		**-**		
		10		C	**5SY4 210-5**	6	0.330	A	**5SY4 210-6**	6	0.330
		13		C	**5SY4 213-5**	6	0.330	B	**5SY4 213-6**	6	0.330
		16		C	**5SY4 216-5**	6	0.330	A	**5SY4 216-6**	6	0.330
		20		A	**5SY4 220-5**	6	0.330	A	**5SY4 220-6**	6	0.330
		25		C	**5SY4 225-5**	6	0.330	A	**5SY4 225-6**	6	0.330
		32		C	**5SY4 232-5**	6	0.330	B	**5SY4 232-6**	6	0.330
		40		A	**5SY4 240-5**	6	0.330	A	**5SY4 240-6**	6	0.330
		50		C	**5SY4 250-5**	6	0.330	C	**5SY4 250-6**	6	0.330
		63		C	**5SY4 263-5**	6	0.330	C	**5SY4 263-6**	6	0.330

1) Only applicable for 5SY4 132-6: Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

All 5SY4 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

For supplementary components, please see pages 2/55, 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

Selection and ordering data

		I_n	MW	DC	Characteristic A Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic B Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg
	**3-pole** 	1	3	C	**5SY4 301-5**	4	0.495		**-**		
		1.6		C	**5SY4 315-5**	4	0.495		**-**		
		2		C	**5SY4 302-5**	4	0.495		**-**		
		3		C	**5SY4 303-5**	4	0.495		**-**		
		4		C	**5SY4 304-5**	4	0.495		**-**		
		6		C	**5SY4 306-5**	4	0.495	A	**5SY4 306-6**	4	0.495
		8		C	**5SY4 308-5**	4	0.495		-		
		10		A	**5SY4 310-5**	4	0.495	A	**5SY4 310-6**	4	0.495
		13		C	**5SY4 313-5**	4	0.495	C	**5SY4 313-6**	4	0.495
		16		C	**5SY4 316-5**	4	0.495	A	**5SY4 316-6**	4	0.495
		20		C	**5SY4 320-5**	4	0.495	A	**5SY4 320-6**	4	0.495
		25		A	**5SY4 325-5**	4	0.495	A	**5SY4 325-6**	4	0.495
		32 [1]		A	**5SY4 332-5**	4	0.495	A	**5SY4 332-6**	4	0.495
		40		C	**5SY4 340-5**	4	0.495	B	**5SY4 340-6**	4	0.495
		50		C	**5SY4 350-5**	4	0.495	A	**5SY4 350-6**	4	0.495
		63		C	**5SY4 363-5**	4	0.495	A	**5SY4 363-6**	4	0.495
	**3-pole + N** 	1	4	C	**5SY4 601-5**	3	0.660		**-**		
		1.6		C	**5SY4 615-5**	3	0.660		**-**		
		2		C	**5SY4 602-5**	3	0.660		**-**		
		3		C	**5SY4 603-5**	3	0.660		**-**		
		4		C	**5SY4 604-5**	3	0.660		**-**		
		6		C	**5SY4 606-5**	3	0.660	C	**5SY4 606-6**	3	0.660
		8		C	**5SY4 608-5**	3	0.660		**-**		
		10		C	**5SY4 610-5**	3	0.660	A	**5SY4 610-6**	3	0.660
		13		C	**5SY4 613-5**	3	0.660	C	**5SY4 613-6**	3	0.660
		16		C	**5SY4 616-5**	3	0.660	C	**5SY4 616-6**	3	0.660
		20		C	**5SY4 620-5**	3	0.660	A	**5SY4 620-6**	3	0.660
		25		C	**5SY4 625-5**	3	0.660	A	**5SY4 625-6**	3	0.660
		32		C	**5SY4 632-5**	3	0.660	A	**5SY4 632-6**	3	0.660
		40		C	**5SY4 640-5**	3	0.660	C	**5SY4 640-6**	3	0.660
		50		C	**5SY4 650-5**	3	0.660	C	**5SY4 650-6**	3	0.660
		63		C	**5SY4 663-5**	3	0.660	C	**5SY4 663-6**	3	0.660
	**4-pole** 	1	4	C	**5SY4 401-5**	3	0.660		**-**		
		1.6		C	**5SY4 415-5**	3	0.660		**-**		
		2		C	**5SY4 402-5**	3	0.660		**-**		
		3		C	**5SY4 403-5**	3	0.660		**-**		
		4		C	**5SY4 404-5**	3	0.660		**-**		
		6		C	**5SY4 406-5**	3	0.660	C	**5SY4 406-6**	3	0.660
		8		C	**5SY4 408-5**	3	0.660		**-**		
		10		C	**5SY4 410-5**	3	0.660	A	**5SY4 410-6**	3	0.660
		13		C	**5SY4 413-5**	3	0.660	C	**5SY4 413-6**	3	0.660
		16		C	**5SY4 416-5**	3	0.660	A	**5SY4 416-6**	3	0.660
		20		C	**5SY4 420-5**	3	0.660	C	**5SY4 420-6**	3	0.660
		25		C	**5SY4 425-5**	3	0.660	A	**5SY4 425-6**	3	0.660
		32		C	**5SY4 432-5**	3	0.660	A	**5SY4 432-6**	3	0.660
		40		C	**5SY4 440-5**	3	0.660	A	**5SY4 440-6**	3	0.660
		50		C	**5SY4 450-5**	3	0.660	C	**5SY4 450-6**	3	0.660
		63		C	**5SY4 463-5**	3	0.660	A	**5SY4 463-6**	3	0.660

1) Only applicable for 5SY4 332-6:
Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

All 5SY4 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

For supplementary components, please see pages 2/55, 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

10 000
3

10 kA
70 mm mounting depth

2

Area of application

Characteristic C
General line protection, especially advantageous with higher in-rush currents (lamps, motors, etc.).

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

Selection and ordering data

		I_n	MW	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic D Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg
	**1-pole** 	0.3	1	C	**5SY4 114-7**	12	0.165	C	**5SY4 114-8**	12	0.165
		0.5		A	**5SY4 105-7**	12	0.165	C	**5SY4 105-8**	12	0.165
		1		A	**5SY4 101-7**	12	0.165	C	**5SY4 101-8**	12	0.165
		1.6		B	**5SY4 115-7**	12	0.165	C	**5SY4 115-8**	12	0.165
		2		A	**5SY4 102-7**	12	0.165	A	**5SY4 102-8**	12	0.165
		3		A	**5SY4 103-7**	12	0.165	A	**5SY4 103-8**	12	0.165
		4		A	**5SY4 104-7**	12	0.165	C	**5SY4 104-8**	12	0.165
		6		A	**5SY4 106-7**	12	0.165	A	**5SY4 106-8**	12	0.165
		8		A	**5SY4 108-7**	12	0.165	C	**5SY4 108-8**	12	0.165
		10		A	**5SY4 110-7**	12	0.165	A	**5SY4 110-8**	12	0.165
		13		A	**5SY4 113-7**	12	0.165	C	**5SY4 113-8**	12	0.165
		16		A	**5SY4 116-7**	12	0.165	A	**5SY4 116-8**	12	0.165
		20		A	**5SY4 120-7**	12	0.165	A	**5SY4 120-8**	12	0.165
		25		A	**5SY4 125-7**	12	0.165	C	**5SY4 125-8**	12	0.165
		32 [1]		A	**5SY4 132-7**	12	0.165	C	**5SY4 132-8**	12	0.165
		40		A	**5SY4 140-7**	12	0.165	C	**5SY4 140-8**	12	0.165
		50		A	**5SY4 150-7**	12	0.165	A	**5SY4 150-8**	12	0.165
		63		A	**5SY4 163-7**	12	0.165	C	**5SY4 163-8**	12	0.165
	**1-pole + N** 	0.3	2	C	**5SY4 514-7**	6	0.330	C	**5SY4 514-8**	6	0.330
		0.5		A	**5SY4 505-7**	6	0.330	C	**5SY4 505-8**	6	0.330
		1		C	**5SY4 501-7**	6	0.330	C	**5SY4 501-8**	6	0.330
		1.6		C	**5SY4 515-7**	6	0.330	C	**5SY4 515-8**	6	0.330
		2		A	**5SY4 502-7**	6	0.330	C	**5SY4 502-8**	6	0.330
		3		C	**5SY4 503-7**	6	0.330	C	**5SY4 503-8**	6	0.330
		4		A	**5SY4 504-7**	6	0.330	C	**5SY4 504-8**	6	0.330
		6		A	**5SY4 506-7**	6	0.330	C	**5SY4 506-8**	6	0.330
		8		C	**5SY4 508-7**	6	0.330	C	**5SY4 508-8**	6	0.330
		10		A	**5SY4 510-7**	6	0.330	A	**5SY4 510-8**	6	0.330
		13		C	**5SY4 513-7**	6	0.330	C	**5SY4 513-8**	6	0.330
		16		A	**5SY4 516-7**	6	0.330	B	**5SY4 516-8**	6	0.330
		20		A	**5SY4 520-7**	6	0.330	A	**5SY4 520-8**	6	0.330
		25		A	**5SY4 525-7**	6	0.330	C	**5SY4 525-8**	6	0.330
		32		A	**5SY4 532-7**	6	0.330	C	**5SY4 532-8**	6	0.330
		40		A	**5SY4 540-7**	6	0.330	C	**5SY4 540-8**	6	0.330
		50		C	**5SY4 550-7**	6	0.330	C	**5SY4 550-8**	6	0.330
		63		C	**5SY4 563-7**	6	0.330	C	**5SY4 563-8**	6	0.330
	**2-pole** 	0.3	2	C	**5SY4 214-7**	6	0.330	C	**5SY4 214-8**	6	0.330
		0.5		A	**5SY4 205-7**	6	0.330	B	**5SY4 205-8**	6	0.330
		1		A	**5SY4 201-7**	6	0.330	A	**5SY4 201-8**	6	0.330
		1.6		B	**5SY4 215-7**	6	0.330	C	**5SY4 215-8**	6	0.330
		2		A	**5SY4 202-7**	6	0.330	A	**5SY4 202-8**	6	0.330
		3		A	**5SY4 203-7**	6	0.330	A	**5SY4 203-8**	6	0.330
		4		A	**5SY4 204-7**	6	0.330	A	**5SY4 204-8**	6	0.330
		6		A	**5SY4 206-7**	6	0.330	A	**5SY4 206-8**	6	0.330
		8		A	**5SY4 208-7**	6	0.330	C	**5SY4 208-8**	6	0.330
		10		A	**5SY4 210-7**	6	0.330	A	**5SY4 210-8**	6	0.330
		13		A	**5SY4 213-7**	6	0.330	C	**5SY4 213-8**	6	0.330
		16		A	**5SY4 216-7**	6	0.330	A	**5SY4 216-8**	6	0.330
		20		A	**5SY4 220-7**	6	0.330	A	**5SY4 220-8**	6	0.330
		25		A	**5SY4 225-7**	6	0.330	A	**5SY4 225-8**	6	0.330
		32		A	**5SY4 232-7**	6	0.330	A	**5SY4 232-8**	6	0.330
		40		A	**5SY4 240-7**	6	0.330	B	**5SY4 240-8**	6	0.330
		50		A	**5SY4 250-7**	6	0.330	B	**5SY4 250-8**	6	0.330
		63		A	**5SY4 263-7**	6	0.330	C	**5SY4 263-8**	6	0.330

1) Only applicable for 5SY4 132-7:
Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

All 5SY4 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

For supplementary components, please see pages 2/55, 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

Selection and ordering data

		I_n	MW	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic D Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg
	**3-pole** 	0.3	3	C	**5SY4 314-7**	4	0.495	C	**5SY4 314-8**	4	0.495
		0.5		A	**5SY4 305-7**	4	0.495	C	**5SY4 305-8**	4	0.495
		1		C	**5SY4 301-7**	4	0.495	C	**5SY4 301-8**	4	0.495
		1.6		C	**5SY4 315-7**	4	0.495	C	**5SY4 315-8**	4	0.495
		2		A	**5SY4 302-7**	4	0.495	A	**5SY4 302-8**	4	0.495
		3		A	**5SY4 303-7**	4	0.495	C	**5SY4 303-8**	4	0.495
		4		A	**5SY4 304-7**	4	0.495	A	**5SY4 304-8**	4	0.495
		6		A	**5SY4 306-7**	4	0.495	A	**5SY4 306-8**	4	0.495
		8		C	**5SY4 308-7**	4	0.495	C	**5SY4 308-8**	4	0.495
		10		A	**5SY4 310-7**	4	0.495	A	**5SY4 310-8**	4	0.495
		13		A	**5SY4 313-7**	4	0.495	A	**5SY4 313-8**	4	0.495
		16		A	**5SY4 316-7**	4	0.495	A	**5SY4 316-8**	4	0.495
		20		A	**5SY4 320-7**	4	0.495	A	**5SY4 320-8**	4	0.495
		25		A	**5SY4 325-7**	4	0.495	A	**5SY4 325-8**	4	0.495
		32 [1]		A	**5SY4 332-7**	4	0.495	A	**5SY4 332-8**	4	0.495
		40		A	**5SY4 340-7**	4	0.495	A	**5SY4 340-8**	4	0.495
		50		A	**5SY4 350-7**	4	0.495	A	**5SY4 350-8**	4	0.495
		63		A	**5SY4 363-7**	4	0.495	A	**5SY4 363-8**	4	0.495
	**3-pole + N** 	0.3	4	C	**5SY4 614-7**	3	0.660	C	**5SY4 614-8**	3	0.660
		0.5		C	**5SY4 605-7**	3	0.660	C	**5SY4 605-8**	3	0.660
		1		C	**5SY4 601-7**	3	0.660	C	**5SY4 601-8**	3	0.660
		1.6		C	**5SY4 615-7**	3	0.660	C	**5SY4 615-8**	3	0.660
		2		C	**5SY4 602-7**	3	0.660	C	**5SY4 602-8**	3	0.660
		3		C	**5SY4 603-7**	3	0.660	C	**5SY4 603-8**	3	0.660
		4		C	**5SY4 604-7**	3	0.660	C	**5SY4 604-8**	3	0.660
		6		A	**5SY4 606-7**	3	0.660	C	**5SY4 606-8**	3	0.660
		8		C	**5SY4 608-7**	3	0.660	C	**5SY4 608-8**	3	0.660
		10		A	**5SY4 610-7**	3	0.660	C	**5SY4 610-8**	3	0.660
		13		A	**5SY4 613-7**	3	0.660	C	**5SY4 613-8**	3	0.660
		16		A	**5SY4 616-7**	3	0.660	B	**5SY4 616-8**	3	0.660
		20		A	**5SY4 620-7**	3	0.660	A	**5SY4 620-8**	3	0.660
		25		A	**5SY4 625-7**	3	0.660	A	**5SY4 625-8**	3	0.660
		32		A	**5SY4 632-7**	3	0.660	A	**5SY4 632-8**	3	0.660
		40		A	**5SY4 640-7**	3	0.660	A	**5SY4 640-8**	3	0.660
		50		A	**5SY4 650-7**	3	0.660	A	**5SY4 650-8**	3	0.660
		63		A	**5SY4 663-7**	3	0.660	B	**5SY4 663-8**	3	0.660
	**4-pole** 	0.3	4	C	**5SY4 414-7**	3	0.660	C	**5SY4 414-8**	3	0.660
		0.5		C	**5SY4 405-7**	3	0.660	C	**5SY4 405-8**	3	0.660
		1		C	**5SY4 401-7**	3	0.660	C	**5SY4 401-8**	3	0.660
		1.6		C	**5SY4 415-7**	3	0.660	C	**5SY4 415-8**	3	0.660
		2		A	**5SY4 402-7**	3	0.660	C	**5SY4 402-8**	3	0.660
		3		C	**5SY4 403-7**	3	0.660	C	**5SY4 403-8**	3	0.660
		4		C	**5SY4 404-7**	3	0.660	C	**5SY4 404-8**	3	0.660
		6		A	**5SY4 406-7**	3	0.660	C	**5SY4 406-8**	3	0.660
		8		C	**5SY4 408-7**	3	0.660	C	**5SY4 408-8**	3	0.660
		10		A	**5SY4 410-7**	3	0.660	A	**5SY4 410-8**	3	0.660
		13		C	**5SY4 413-7**	3	0.660	C	**5SY4 413-8**	3	0.660
		16		A	**5SY4 416-7**	3	0.660	A	**5SY4 416-8**	3	0.660
		20		A	**5SY4 420-7**	3	0.660	A	**5SY4 420-8**	3	0.660
		25		A	**5SY4 425-7**	3	0.660	A	**5SY4 425-8**	3	0.660
		32		A	**5SY4 432-7**	3	0.660	A	**5SY4 432-8**	3	0.660
		40		A	**5SY4 440-7**	3	0.660	C	**5SY4 440-8**	3	0.660
		50		A	**5SY4 450-7**	3	0.660	A	**5SY4 450-8**	3	0.660
		63		A	**5SY4 463-7**	3	0.660	A	**5SY4 463-8**	3	0.660

You can order this amount or a multiple of this amount.

1) Only applicable for 5SY4 332-7 and 5SY7 132-6:
Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

Please note for pages 2/47 and 2/48:
All 5SY4 and 5SY7 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

The following cross-references and footnotes apply for pages 2/47 and 2/48:

For supplementary components, please see pages 2/55, 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

15 000
3

2

15 kA
70 mm mounting depth

Area of application

- U_n: 230/400 V, 50-60 Hz, applicable in networks up to AC 250/440 V, DC 60 V per pole

Standards EN 60898, DIN VDE 0641 Part 11, IEC 60898
Supplementary components can be retrofitted.

Characteristic B

Line protection, mainly used for outlet circuits; no proof required regarding personal safety.

Selection and ordering data

		I_n	MW	DC	Characteristic B Order No.	Pack. unit*	Weight per unit approx.
		A					kg
	**1-pole** 	6	1	B	**5SY7 106-6**	12	0.165
		10		A	**5SY7 110-6**	12	0.165
		13		C	**5SY7 113-6**	12	0.165
		16		A	**5SY7 116-6**	12	0.165
		20		C	**5SY7 120-6**	12	0.165
		25		C	**5SY7 125-6**	12	0.165
		32 [1]		C	**5SY7 132-6**	12	0.165
		40		C	**5SY7 140-6**	12	0.165
		50		C	**5SY7 150-6**	12	0.165
		63		C	**5SY7 163-6**	12	0.165
	**1-pole + N** 	6	2	C	**5SY7 506-6**	6	0.330
		10		C	**5SY7 510-6**	6	0.330
		13		C	**5SY7 513-6**	6	0.330
		16		C	**5SY7 516-6**	6	0.330
		20		C	**5SY7 520-6**	6	0.330
		25		C	**5SY7 525-6**	6	0.330
		32		C	**5SY7 532-6**	6	0.330
		40		C	**5SY7 540-6**	6	0.330
		50		C	**5SY7 550-6**	6	0.330
		63		C	**5SY7 563-6**	6	0.330
	**2-pole** 	6	2	A	**5SY7 206-6**	6	0.330
		10		B	**5SY7 210-6**	6	0.330
		13		C	**5SY7 213-6**	6	0.330
		16		C	**5SY7 216-6**	6	0.330
		20		C	**5SY7 220-6**	6	0.330
		25		A	**5SY7 225-6**	6	0.330
		32		C	**5SY7 232-6**	6	0.330
		40		C	**5SY7 240-6**	6	0.330
		50		C	**5SY7 250-6**	6	0.330
		63		C	**5SY7 263-6**	6	0.330
	**3-pole** 	6	3	C	**5SY7 306-6**	4	0.495
		10		A	**5SY7 310-6**	4	0.495
		13		C	**5SY7 313-6**	4	0.495
		16		B	**5SY7 316-6**	4	0.495
		20		C	**5SY7 320-6**	4	0.495
		25		A	**5SY7 325-6**	4	0.495
		32		C	**5SY7 332-6**	4	0.495
		40		C	**5SY7 340-6**	4	0.495
		50		C	**5SY7 350-6**	4	0.495
		63		C	**5SY7 363-6**	4	0.495
	**3-pole + N** 	6	4	C	**5SY7 606-6**	3	0.660
		10		C	**5SY7 610-6**	3	0.660
		13		C	**5SY7 613-6**	3	0.660
		16		B	**5SY7 616-6**	3	0.660
		20		B	**5SY7 620-6**	3	0.660
		25		C	**5SY7 625-6**	3	0.660
		32		C	**5SY7 632-6**	3	0.660
		40		C	**5SY7 640-6**	3	0.660
		50		C	**5SY7 650-6**	3	0.660
		63		C	**5SY7 663-6**	3	0.660
	**4-pole** 	6	4	C	**5SY7 406-6**	3	0.660
		10		A	**5SY7 410-6**	3	0.660
		13		C	**5SY7 413-6**	3	0.660
		16		C	**5SY7 416-6**	3	0.660
		20		A	**5SY7 420-6**	3	0.660
		25		C	**5SY7 425-6**	3	0.660
		32		C	**5SY7 432-6**	3	0.660
		40		C	**5SY7 440-6**	3	0.660
		50		C	**5SY7 450-6**	3	0.660
		63		C	**5SY7 463-6**	3	0.660

Please see the footnote on page 2/49.

*** This quantity or a multiple thereof can be ordered.**

Area of application

Characteristic C
General line protection, especially advantageous with higher in-rush currents (lamps, motors, etc.,).

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

Selection and ordering data

		I_n	MW	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic D Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg
	**1-pole** 	0.3	1	C	**5SY7 114-7**	12	0.165	C	**5SY7 114-8**	12	0.165
		0.5		C	**5SY7 105-7**	12	0.165	C	**5SY7 105-8**	12	0.165
		1		A	**5SY7 101-7**	12	0.165	C	**5SY7 101-8**	12	0.165
		1.6		A	**5SY7 115-7**	12	0.165	C	**5SY7 115-8**	12	0.165
		2		A	**5SY7 102-7**	12	0.165	C	**5SY7 102-8**	12	0.165
		3		C	**5SY7 103-7**	12	0.165	C	**5SY7 103-8**	12	0.165
		4		A	**5SY7 104-7**	12	0.165	C	**5SY7 104-8**	12	0.165
		6		A	**5SY7 106-7**	12	0.165	C	**5SY7 106-8**	12	0.165
		8		A	**5SY7 108-7**	12	0.165	C	**5SY7 108-8**	12	0.165
		10		A	**5SY7 110-7**	12	0.165	A	**5SY7 110-8**	12	0.165
		13		C	**5SY7 113-7**	12	0.165	C	**5SY7 113-8**	12	0.165
		16		A	**5SY7 116-7**	12	0.165	C	**5SY7 116-8**	12	0.165
		20		A	**5SY7 120-7**	12	0.165	C	**5SY7 120-8**	12	0.165
		25		A	**5SY7 125-7**	12	0.165	C	**5SY7 125-8**	12	0.165
		32 [1]		C	**5SY7 132-7**	12	0.165	C	**5SY7 132-8**	12	0.165
		40		C	**5SY7 140-7**	12	0.165	C	**5SY7 140-8**	12	0.165
		50		C	**5SY7 150-7**	12	0.165	C	**5SY7 150-8**	12	0.165
		63		C	**5SY7 163-7**	12	0.165	C	**5SY7 163-8**	12	0.165
	**1-pole + N** 	0.3	2	C	**5SY7 514-7**	6	0.330	C	**5SY7 514-8**	6	0.330
		0.5		C	**5SY7 505-7**	6	0.330	C	**5SY7 505-8**	6	0.330
		1		C	**5SY7 501-7**	6	0.330	C	**5SY7 501-8**	6	0.330
		1.6		C	**5SY7 515-7**	6	0.330	C	**5SY7 515-8**	6	0.330
		2		A	**5SY7 502-7**	6	0.330	C	**5SY7 502-8**	6	0.330
		3		C	**5SY7 503-7**	6	0.330	C	**5SY7 503-8**	6	0.330
		4		A	**5SY7 504-7**	6	0.330	C	**5SY7 504-8**	6	0.330
		6		A	**5SY7 506-7**	6	0.330	C	**5SY7 506-8**	6	0.330
		8		C	**5SY7 508-7**	6	0.330	C	**5SY7 508-8**	6	0.330
		10		A	**5SY7 510-7**	6	0.330	C	**5SY7 510-8**	6	0.330
		13		C	**5SY7 513-7**	6	0.330	C	**5SY7 513-8**	6	0.330
		16		A	**5SY7 516-7**	6	0.330	C	**5SY7 516-8**	6	0.330
		20		A	**5SY7 520-7**	6	0.330	C	**5SY7 520-8**	6	0.330
		25		A	**5SY7 525-7**	6	0.330	C	**5SY7 525-8**	6	0.330
		32		A	**5SY7 532-7**	6	0.330	C	**5SY7 532-8**	6	0.330
		40		C	**5SY7 540-7**	6	0.330	C	**5SY7 540-8**	6	0.330
		50		C	**5SY7 550-7**	6	0.330	C	**5SY7 550-8**	6	0.330
		63		C	**5SY7 563-7**	6	0.330	C	**5SY7 563-8**	6	0.330
	**2-pole** 	0.3	2	C	**5SY7 214-7**	6	0.330	C	**5SY7 214-8**	6	0.330
		0.5		A	**5SY7 205-7**	6	0.330	C	**5SY7 205-8**	6	0.330
		1		A	**5SY7 201-7**	6	0.330	C	**5SY7 201-8**	6	0.330
		1.6		C	**5SY7 215-7**	6	0.330	C	**5SY7 215-8**	6	0.330
		2		A	**5SY7 202-7**	6	0.330	A	**5SY7 202-8**	6	0.330
		3		A	**5SY7 203-7**	6	0.330	C	**5SY7 203-8**	6	0.330
		4		A	**5SY7 204-7**	6	0.330	C	**5SY7 204-8**	6	0.330
		6		A	**5SY7 206-7**	6	0.330	B	**5SY7 206-8**	6	0.330
		8		C	**5SY7 208-7**	6	0.330	C	**5SY7 208-8**	6	0.330
		10		A	**5SY7 210-7**	6	0.330	C	**5SY7 210-8**	6	0.330
		13		C	**5SY7 213-7**	6	0.330	C	**5SY7 213-8**	6	0.330
		16		A	**5SY7 216-7**	6	0.330	B	**5SY7 216-8**	6	0.330
		20		A	**5SY7 220-7**	6	0.330	C	**5SY7 220-8**	6	0.330
		25		A	**5SY7 225-7**	6	0.330	C	**5SY7 225-8**	6	0.330
		32		A	**5SY7 232-7**	6	0.330	C	**5SY7 232-8**	6	0.330
		40		A	**5SY7 240-7**	6	0.330	C	**5SY7 240-8**	6	0.330
		50		C	**5SY7 250-7**	6	0.330	C	**5SY7 250-8**	6	0.330
		63		C	**5SY7 263-7**	6	0.330	C	**5SY7 263-8**	6	0.330

The following footnotes apply to pages 2/48 and 2/49:

1) .Only applicable for 5SY7 132-6 and 5SY7 132-7:
Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

All 5SY7 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

For supplementary components, please see pages 2/55, 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

15 000
3

15 kA
70 mm mounting depth

2

Selection and ordering data

		I_n	MW	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic D Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg
	**3-pole** 	0.3	3	C	**5SY7 314-7**	4	0.495	C	**5SY7 314-8**	4	0.495
		0.5		C	**5SY7 305-7**	4	0.495	C	**5SY7 305-8**	4	0.495
		1		C	**5SY7 301-7**	4	0.495	C	**5SY7 301-8**	4	0.495
		1.6		C	**5SY7 315-7**	4	0.495	C	**5SY7 315-8**	4	0.495
		2		C	**5SY7 302-7**	4	0.495	C	**5SY7 302-8**	4	0.495
		3		C	**5SY7 303-7**	4	0.495	C	**5SY7 303-8**	4	0.495
		4		A	**5SY7 304-7**	4	0.495	C	**5SY7 304-8**	4	0.495
		6		B	**5SY7 306-7**	4	0.495	C	**5SY7 306-8**	4	0.495
		8		C	**5SY7 308-7**	4	0.495	C	**5SY7 308-8**	4	0.495
		10		A	**5SY7 310-7**	4	0.495	C	**5SY7 310-8**	4	0.495
		13		A	**5SY7 313-7**	4	0.495	C	**5SY7 313-8**	4	0.495
		16		A	**5SY7 316-7**	4	0.495	C	**5SY7 316-8**	4	0.495
		20		A	**5SY7 320-7**	4	0.495	A	**5SY7 320-8**	4	0.495
		25		A	**5SY7 325-7**	4	0.495	C	**5SY7 325-8**	4	0.495
		32[1)]		A	**5SY7 332-7**	4	0.495	C	**5SY7 332-8**	4	0.495
		40		A	**5SY7 340-7**	4	0.495	C	**5SY7 340-8**	4	0.495
		50		A	**5SY7 350-7**	4	0.495	C	**5SY7 350-8**	4	0.495
		63		A	**5SY7 363-7**	4	0.495	C	**5SY7 363-8**	4	0.495
	**3-pole + N** 	0.3	4	C	**5SY7 614-7**	3	0.660	C	**5SY7 614-8**	3	0.660
		0.5		C	**5SY7 605-7**	3	0.660	C	**5SY7 605-8**	3	0.660
		1		C	**5SY7 601-7**	3	0.660	C	**5SY7 601-8**	3	0.660
		1.6		C	**5SY7 615-7**	3	0.660	C	**5SY7 615-8**	3	0.660
		2		C	**5SY7 602-7**	3	0.660	C	**5SY7 602-8**	3	0.660
		3		C	**5SY7 603-7**	3	0.660	C	**5SY7 603-8**	3	0.660
		4		C	**5SY7 604-7**	3	0.660	C	**5SY7 604-8**	3	0.660
		6		C	**5SY7 606-7**	3	0.660	C	**5SY7 606-8**	3	0.660
		8		C	**5SY7 608-7**	3	0.660	C	**5SY7 608-8**	3	0.660
		10		A	**5SY7 610-7**	3	0.660	C	**5SY7 610-8**	3	0.660
		13		C	**5SY7 613-7**	3	0.660	C	**5SY7 613-8**	3	0.660
		16		A	**5SY7 616-7**	3	0.660	C	**5SY7 616-8**	3	0.660
		20		C	**5SY7 620-7**	3	0.660	C	**5SY7 620-8**	3	0.660
		25		B	**5SY7 625-7**	3	0.660	C	**5SY7 625-8**	3	0.660
		32		C	**5SY7 632-7**	3	0.660	C	**5SY7 632-8**	3	0.660
		40		B	**5SY7 640-7**	3	0.660	C	**5SY7 640-8**	3	0.660
		50		B	**5SY7 650-7**	3	0.660	C	**5SY7 650-8**	3	0.660
		63		A	**5SY7 663-7**	3	0.660	C	**5SY7 663-8**	3	0.660
	**4-pole** 	0.3	4	C	**5SY7 414-7**	3	0.660	C	**5SY7 414-8**	3	0.660
		0.5		C	**5SY7 405-7**	3	0.660	C	**5SY7 405-8**	3	0.660
		1		C	**5SY7 401-7**	3	0.660	C	**5SY7 401-8**	3	0.660
		1.6		C	**5SY7 415-7**	3	0.660	C	**5SY7 415-8**	3	0.660
		2		C	**5SY7 402-7**	3	0.660	C	**5SY7 402-8**	3	0.660
		3		C	**5SY7 403-7**	3	0.660	C	**5SY7 403-8**	3	0.660
		4		C	**5SY7 404-7**	3	0.660	C	**5SY7 404-8**	3	0.660
		6		A	**5SY7 406-7**	3	0.660	C	**5SY7 406-8**	3	0.660
		8		C	**5SY7 408-7**	3	0.660	C	**5SY7 408-8**	3	0.660
		10		A	**5SY7 410-7**	3	0.660	C	**5SY7 410-8**	3	0.660
		13		C	**5SY7 413-7**	3	0.660	C	**5SY7 413-8**	3	0.660
		16		A	**5SY7 416-7**	3	0.660	C	**5SY7 416-8**	3	0.660
		20		A	**5SY7 420-7**	3	0.660	C	**5SY7 420-8**	3	0.660
		25		A	**5SY7 425-7**	3	0.660	C	**5SY7 425-8**	3	0.660
		32		A	**5SY7 432-7**	3	0.660	A	**5SY7 432-8**	3	0.660
		40		A	**5SY7 440-7**	3	0.660	C	**5SY7 440-8**	3	0.660
		50		A	**5SY7 450-7**	3	0.660	C	**5SY7 450-8**	3	0.660
		63		A	**5SY7 463-7**	3	0.660	B	**5SY7 463-8**	3	0.660

1) Only applicable for 5SY7 332-7:
Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic B or C and I_n = 40 A is recommended.

All 5SY7 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole and 1-pole + N design) and AC 480 V (2-pole, 3-pole, 3-pole + N and 4-pole design).

For supplementary components, please see pages 2/55, 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

Area of application

- U_n: 230/400 V, 50-60 Hz, applicable in networks up to AC 250/440 V, DC 60 V per pole
- Standards EN 60 947-2, IEC 60 947-2
- Supplementary components can be retrofitted.

Characteristic C

General line protection, especially advantageous with higher in-rush currents (lamps, motors, etc.).

Characteristic D

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

Selection and ordering data

		I_n	MW	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic D Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg
	**1-pole** 	0.3	1	C	**5SY8 114-7**	12	0.165	C	**5SY8 114-8**	12	0.165
		0.5		C	**5SY8 105-7**	12	0.165	C	**5SY8 105-8**	12	0.165
		1		A	**5SY8 101-7**	12	0.165	C	**5SY8 101-8**	12	0.165
		1.6		C	**5SY8 115-7**	12	0.165	C	**5SY8 115-8**	12	0.165
		2		A	**5SY8 102-7**	12	0.165	C	**5SY8 102-8**	12	0.165
		3		C	**5SY8 103-7**	12	0.165	C	**5SY8 103-8**	12	0.165
		4		C	**5SY8 104-7**	12	0.165	C	**5SY8 104-8**	12	0.165
		6		A	**5SY8 106-7**	12	0.165	C	**5SY8 106-8**	12	0.165
		8		C	**5SY8 108-7**	12	0.165	C	**5SY8 108-8**	12	0.165
		10		C	**5SY8 110-7**	12	0.165	C	**5SY8 110-8**	12	0.165
		13		C	**5SY8 113-7**	12	0.165	C	**5SY8 113-8**	12	0.165
		16		A	**5SY8 116-7**	12	0.165	C	**5SY8 116-8**	12	0.165
		20		B	**5SY8 120-7**	12	0.165	C	**5SY8 120-8**	12	0.165
		25		C	**5SY8 125-7**	12	0.165	C	**5SY8 125-8**	12	0.165
		32 [1]		C	**5SY8 132-7**	12	0.165	C	**5SY8 132-8**	12	0.165
		40		C	**5SY8 140-7**	12	0.165	C	**5SY8 140-8**	12	0.165
		50		C	**5SY8 150-7**	12	0.165	C	**5SY8 150-8**	12	0.165
		63		C	**5SY8 163-7**	12	0.165	C	**5SY8 163-8**	12	0.165
	**1-pole + N** 	0.3	2	C	**5SY8 514-7**	6	0.330	C	**5SY8 514-8**	6	0.330
		0.5		C	**5SY8 505-7**	6	0.330	C	**5SY8 505-8**	6	0.330
		1		C	**5SY8 501-7**	6	0.330	C	**5SY8 501-8**	6	0.330
		1.6		C	**5SY8 515-7**	6	0.330	C	**5SY8 515-8**	6	0.330
		2		C	**5SY8 502-7**	6	0.330	C	**5SY8 502-8**	6	0.330
		3		C	**5SY8 503-7**	6	0.330	C	**5SY8 503-8**	6	0.330
		4		C	**5SY8 504-7**	6	0.330	C	**5SY8 504-8**	6	0.330
		6		C	**5SY8 506-7**	6	0.330	C	**5SY8 506-8**	6	0.330
		8		C	**5SY8 508-7**	6	0.330	C	**5SY8 508-8**	6	0.330
		10		A	**5SY8 510-7**	6	0.330	C	**5SY8 510-8**	6	0.330
		13		C	**5SY8 513-7**	6	0.330	C	**5SY8 513-8**	6	0.330
		16		C	**5SY8 516-7**	6	0.330	C	**5SY8 516-8**	6	0.330
		20		C	**5SY8 520-7**	6	0.330	C	**5SY8 520-8**	6	0.330
		25		C	**5SY8 525-7**	6	0.330	C	**5SY8 525-8**	6	0.330
		32		C	**5SY8 532-7**	6	0.330	C	**5SY8 532-8**	6	0.330
		40		C	**5SY8 540-7**	6	0.330	C	**5SY8 540-8**	6	0.330
		50		C	**5SY8 550-7**	6	0.330	C	**5SY8 550-8**	6	0.330
		63		C	**5SY8 563-7**	6	0.330	C	**5SY8 563-8**	6	0.330
	**2-pole** 	0.3	2	C	**5SY8 214-7**	6	0.330	C	**5SY8 214-8**	6	0.330
		0.5		C	**5SY8 205-7**	6	0.330	C	**5SY8 205-8**	6	0.330
		1		C	**5SY8 201-7**	6	0.330	C	**5SY8 201-8**	6	0.330
		1.6		C	**5SY8 215-7**	6	0.330	C	**5SY8 215-8**	6	0.330
		2		C	**5SY8 202-7**	6	0.330	C	**5SY8 202-8**	6	0.330
		3		C	**5SY8 203-7**	6	0.330	C	**5SY8 203-8**	6	0.330
		4		C	**5SY8 204-7**	6	0.330	C	**5SY8 204-8**	6	0.330
		6		A	**5SY8 206-7**	6	0.330	C	**5SY8 206-8**	6	0.330
		8		C	**5SY8 208-7**	6	0.330	C	**5SY8 208-8**	6	0.330
		10		A	**5SY8 210-7**	6	0.330	C	**5SY8 210-8**	6	0.330
		13		C	**5SY8 213-7**	6	0.330	C	**5SY8 213-8**	6	0.330
		16		A	**5SY8 216-7**	6	0.330	C	**5SY8 216-8**	6	0.330
		20		A	**5SY8 220-7**	6	0.330	C	**5SY8 220-8**	6	0.330
		25		A	**5SY8 225-7**	6	0.330	C	**5SY8 225-8**	6	0.330
		32		C	**5SY8 232-7**	6	0.330	C	**5SY8 232-8**	6	0.330
		40		C	**5SY8 240-7**	6	0.330	C	**5SY8 240-8**	6	0.330
		50		C	**5SY8 250-7**	6	0.330	C	**5SY8 250-8**	6	0.330
		63		C	**5SY8 263-7**	6	0.330	C	**5SY8 263-8**	6	0.330

1) Only applicable for 5SY8 132-7:
Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic C and I_n = 40 A is recommended.

For supplementary components, please see pages 2/55, 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

25 kA
70 mm mounting depth

2

Selection and ordering data

		I_n	MW	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic D Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg
	**3-pole** 	0.3	3	C	**5SY8 314-7**	4	0.495	C	**5SY8 314-8**	4	0.495
		0.5		C	**5SY8 305-7**	4	0.495	C	**5SY8 305-8**	4	0.495
		1		C	**5SY8 301-7**	4	0.495	C	**5SY8 301-8**	4	0.495
		1.6		C	**5SY8 315-7**	4	0.495	C	**5SY8 315-8**	4	0.495
		2		C	**5SY8 302-7**	4	0.495	C	**5SY8 302-8**	4	0.495
		3		C	**5SY8 303-7**	4	0.495	C	**5SY8 303-8**	4	0.495
		4		C	**5SY8 304-7**	4	0.495	C	**5SY8 304-8**	4	0.495
		6		C	**5SY8 306-7**	4	0.495	C	**5SY8 306-8**	4	0.495
		8		C	**5SY8 308-7**	4	0.495	C	**5SY8 308-8**	4	0.495
		10		A	**5SY8 310-7**	4	0.495	C	**5SY8 310-8**	4	0.495
		13		C	**5SY8 313-7**	4	0.495	C	**5SY8 313-8**	4	0.495
		16		C	**5SY8 316-7**	4	0.495	C	**5SY8 316-8**	4	0.495
		20		C	**5SY8 320-7**	4	0.495	C	**5SY8 320-8**	4	0.495
		25		C	**5SY8 325-7**	4	0.495	C	**5SY8 325-8**	4	0.495
		32[1)]		C	**5SY8 332-7**	4	0.495	C	**5SY8 332-8**	4	0.495
		40		C	**5SY8 340-7**	4	0.495	C	**5SY8 340-8**	4	0.495
		50		C	**5SY8 350-7**	4	0.495	C	**5SY8 350-8**	4	0.495
		63		C	**5SY8 363-7**	4	0.495	C	**5SY8 363-8**	4	0.495
	**3-pole + N** 	0.3	4	C	**5SY8 614-7**	3	0.660	C	**5SY8 614-8**	3	0.660
		0.5		C	**5SY8 605-7**	3	0.660	C	**5SY8 605-8**	3	0.660
		1		C	**5SY8 601-7**	3	0.660	C	**5SY8 601-8**	3	0.660
		1.6		C	**5SY8 615-7**	3	0.660	C	**5SY8 615-8**	3	0.660
		2		C	**5SY8 602-7**	3	0.660	C	**5SY8 602-8**	3	0.660
		3		C	**5SY8 603-7**	3	0.660	C	**5SY8 603-8**	3	0.660
		4		C	**5SY8 604-7**	3	0.660	C	**5SY8 604-8**	3	0.660
		6		C	**5SY8 606-7**	3	0.660	C	**5SY8 606-8**	3	0.660
		8		C	**5SY8 608-7**	3	0.660	C	**5SY8 608-8**	3	0.660
		10		C	**5SY8 610-7**	3	0.660	C	**5SY8 610-8**	3	0.660
		13		C	**5SY8 613-7**	3	0.660	C	**5SY8 613-8**	3	0.660
		16		C	**5SY8 616-7**	3	0.660	C	**5SY8 616-8**	3	0.660
		20		C	**5SY8 620-7**	3	0.660	C	**5SY8 620-8**	3	0.660
		25		C	**5SY8 625-7**	3	0.660	C	**5SY8 625-8**	3	0.660
		32		C	**5SY8 632-7**	3	0.660	C	**5SY8 632-8**	3	0.660
		40		C	**5SY8 640-7**	3	0.660	C	**5SY8 640-8**	3	0.660
		50		A	**5SY8 650-7**	3	0.660	C	**5SY8 650-8**	3	0.660
		63		C	**5SY8 663-7**	3	0.660	C	**5SY8 663-8**	3	0.660
	**4-pole** 	0.3	4	C	**5SY8 414-7**	3	0.660	C	**5SY8 414-8**	3	0.660
		0.5		C	**5SY8 405-7**	3	0.660	C	**5SY8 405-8**	3	0.660
		1		C	**5SY8 401-7**	3	0.660	C	**5SY8 401-8**	3	0.660
		1.6		C	**5SY8 415-7**	3	0.660	C	**5SY8 415-8**	3	0.660
		2		C	**5SY8 402-7**	3	0.660	C	**5SY8 402-8**	3	0.660
		3		C	**5SY8 403-7**	3	0.660	C	**5SY8 403-8**	3	0.660
		4		C	**5SY8 404-7**	3	0.660	C	**5SY8 404-8**	3	0.660
		6		C	**5SY8 406-7**	3	0.660	C	**5SY8 406-8**	3	0.660
		8		C	**5SY8 408-7**	3	0.660	C	**5SY8 408-8**	3	0.660
		10		A	**5SY8 410-7**	3	0.660	C	**5SY8 410-8**	3	0.660
		13		C	**5SY8 413-7**	3	0.660	C	**5SY8 413-8**	3	0.660
		16		C	**5SY8 416-7**	3	0.660	C	**5SY8 416-8**	3	0.660
		20		A	**5SY8 420-7**	3	0.660	C	**5SY8 420-8**	3	0.660
		25		A	**5SY8 425-7**	3	0.660	C	**5SY8 425-8**	3	0.660
		32		A	**5SY8 432-7**	3	0.660	C	**5SY8 432-8**	3	0.660
		40		A	**5SY8 440-7**	3	0.660	C	**5SY8 440-8**	3	0.660
		50		A	**5SY8 450-7**	3	0.660	C	**5SY8 450-8**	3	0.660
		63		A	**5SY8 463-7**	3	0.660	C	**5SY8 463-8**	3	0.660

1) Only applicable for 5SY8 332-7:
Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic C and I_n = 40 A is recommended.

*** This quantity or a multiple thereof can be ordered.**

Area of application

- U_n: 230/400 V, 50-60 Hz, 220 V DC per pole, applicable in networks up to: AC 250/440 V
  - 220 V DC: 1-pole
  - 440 V DC: 2-pole
- Standards EN 60898, DIN VDE 0641 Part 11, IEC 60898
- Supplementary components can be retrofitted.

Characteristic B

Line protection, mainly used for outlet circuits; no proof required regarding personal safety.

Characteristic C

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

Selection and ordering data

		I_n	MW	DC	Characteristic B	Pack. unit*	Weight per unit approx.	DC	Characteristic C	Pack. unit*	Weight per unit approx.
					Order No.				Order No.		
		A					kg				kg
	**1-pole**										
		0.3	1		-			C	**5SY5 114-7**	12	0.165
		0.5			-			C	**5SY5 105-7**	12	0.165
		1			-			A	**5SY5 101-7**	12	0.147
		1.6			-			C	**5SY5 115-7**	12	0.165
		2			-			A	**5SY5 102-7**	12	0.165
		3			-			C	**5SY5 103-7**	12	0.165
		4			-			A	**5SY5 104-7**	12	0.165
		6		A	**5SY5 106-6**	12	0.165	A	**5SY5 106-7**	12	0.165
		8			-			C	**5SY5 108-7**	12	0.165
		10		C	**5SY5 110-6**	12	0.165	A	**5SY5 110-7**	12	0.165
		13		C	**5SY5 113-6**	12	0.165	C	**5SY5 113-7**	12	0.165
		16		A	**5SY5 116-6**	12	0.165	A	**5SY5 116-7**	12	0.165
		20		C	**5SY5 120-6**	12	0.165	C	**5SY5 120-7**	12	0.165
		25		C	**5SY5 125-6**	12	0.165	C	**5SY5 125-7**	12	0.165
		32[1)]		C	**5SY5 132-6**	12	0.165	C	**5SY5 132-7**	12	0.165
		40		C	**5SY5 140-6**	12	0.165	C	**5SY5 140-7**	12	0.165
		50		C	**5SY5 150-6**	12	0.165	C	**5SY5 150-7**	12	0.165
		63		C	**5SY5 163-6**	12	0.165	C	**5SY5 163-7**	12	0.165
	**2-pole**										
		0.3	2		-			C	**5SY5 214-7**	6	0.330
		0.5			-			A	**5SY5 205-7**	6	0.330
		1			-			A	**5SY5 201-7**	6	0.330
		1.6			-			C	**5SY5 215-7**	6	0.330
		2			-			A	**5SY5 202-7**	6	0.330
		3			-			A	**5SY5 203-7**	6	0.330
		4			-			A	**5SY5 204-7**	6	0.330
		6		A	**5SY5 206-6**	6	0.330	A	**5SY5 206-7**	6	0.330
		8			-			C	**5SY5 208-7**	6	0.330
		10		A	**5SY5 210-6**	6	0.330	A	**5SY5 210-7**	6	0.330
		13		C	**5SY5 213-6**	6	0.330	C	**5SY5 213-7**	6	0.330
		16		A	**5SY5 216-6**	6	0.330	A	**5SY5 216-7**	6	0.330
		20		C	**5SY5 220-6**	6	0.330	A	**5SY5 220-7**	6	0.330
		25		C	**5SY5 225-6**	6	0.330	C	**5SY5 225-7**	6	0.330
		32		C	**5SY5 232-6**	6	0.330	C	**5SY5 232-7**	6	0.330
		40		C	**5SY5 240-6**	6	0.330	C	**5SY5 240-7**	6	0.330
		50		C	**5SY5 250-6**	6	0.330	C	**5SY5 250-7**	6	0.330
		63		C	**5SY5 263-6**	6	0.330	C	**5SY5 263-7**	6	0.330

1) Also suitable for 21 kW active power at DC 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at AC 230 V (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of 5SY ...-6/7 miniature circuit-breakers with I_n = 40 A is recommended.

The terminal section indicates the DC polarity value which must essentially be observed during connection.

For supplementary components, please see pages 2/57 and 2/59.
For accessories, please see pages 2/60 and 2/61.

*** This quantity or a multiple thereof can be ordered.**

10 000
3

10 kA
70 mm mounting depth

2

Area of application

- U_n: 230/400 V, 50-60 Hz, applicable in networks up to AC 250/440 V, DC 60 V per pole
- Standards EN 60898, IEC 60898, DIN VDE 0641 Part 11, EN 60204
- Supplementary components can be retrofitted individually
- Main control switch characteristics acc. to EN 60204
- Can be snapped onto standard mounting rail acc. to EN 60175
- Can be screwed onto bases
- As main control and miniature circuit-breaker in non-residential and industrial buildings.

Characteristic B

Line protection, mainly used for outlet circuits; no proof required regarding personal safety.

Characteristic C

General line protection, especially advantageous with higher in-rush currents (lamps, motors, etc.).

Characteristic D

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

Selection and ordering data

		I_n	MW	DC	Characteristic B Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic C Order No.	Pack. unit*	Weight per unit approx.	DC	Characteristic D Order No.	Pack. unit*	Weight per unit approx.
		A					kg				kg				kg
	**1-pole** 	80	1.5	X	**5SP4 180-6**	6	0.258	A	**5SP4 180-7**	6	0.258	A	**5SP4 180-8**	6	0.258
		100		X	**5SP4 191-6**	6	0.258	A	**5SP4 191-7**	6	0.258	A	**5SP4 191-8**	6	0.258
		125		X	**5SP4 192-6**	6	0.258	A	**5SP4 192-7**	6	0.258		**-**		
	**2-pole** 	80	3	A	**5SP4 280-6**	3	0.516	A	**5SP4 280-7**	3	0.516	A	**5SP4 280-8**	3	0.516
		100		A	**5SP4 291-6**	3	0.516	A	**5SP4 291-7**	3	0.516	A	**5SP4 291-8**	3	0.516
		125		X	**5SP4 292-6**	3	0.516	A	**5SP4 292-7**	3	0.516		**-**		
	**3-pole** 	80	4.5	A	**5SP4 380-6**	2	0.762	A	**5SP4 380-7**	2	0.762	A	**5SP4 380-8**	2	0.762
		100		A	**5SP4 391-6**	2	0.762	A	**5SP4 391-7**	2	0.762	A	**5SP4 391-8**	2	0.762
		125		A	**5SP4 392-6**	2	0.762	A	**5SP4 392-7**	2	0.762		**-**		
	**4-pole** 	80	6	A	**5SP4 480-6**	1	1.032	A	**5SP4 480-7**	1	1.032	A	**5SP4 480-8**	1	1.032
		100		A	**5SP4 491-6**	1	1.032	A	**5SP4 491-7**	1	1.032	A	**5SP4 491-8**	1	1.032
		125		A	**5SP4 492-6**	1	1.032	A	**5SP4 492-7**	1	1.032		**-**		

All 5SY6 designs have been approved acc. to UL 1077 and CSA 22.2 No. 235-M 89 and can therefore be used as "supplementary protectors" up to AC 277 V (1-pole) and AC 480 V (2-pole, 3-pole, 4-pole).

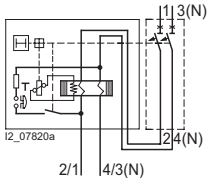
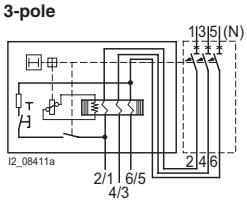
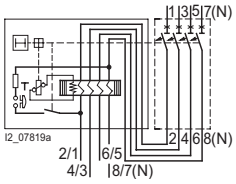
For supplementary components, please see pages 2/56 to 2/59.
For accessories, please see page 2/61.

*** This quantity or a multiple thereof can be ordered.**

Area of application

- 2-, 3- and 4-pole, U_n: 230/400 V, 50-60 Hz, applicable in networks: AC 250/440 V
- Standards IEC/EN 61009-1 (VDE 0664, Part 20), IEC/EN 61009-2-1 (VDE 0664, Part 21)
- Design [S] for selective disconnection
- Can be individually retrofitted[1] in combination with miniature circuit-breakers of characteristic A, B, C and D.

Selection and ordering data

		Rated current I_n A	Rated fault current $I_{\Delta n}$ mA	MW	Design	DC	Order No.	Pack. unit*	Weight per unit approx. kg
	RCCB module for 55SY4, 5SY6[2], 5SY7, and 5SY8 miniature circuit-breakers for AC and pulsating DC fault currents (Type A)								
	**2-pole** 	0.3 ... 16	10	2		A	**5SM2 121-6**	1	0.245
		0.3 ... 40	30			A	**5SM2 322-6**	1	0.245
			300			A	**5SM2 622-6**	1	0.350
		0.3 ... 63	30			A	**5SM2 325-6**	1	0.350
			300			A	**5SM2 625-6**	1	0.350
		0.3 ... 40	300		[S]	A	**5SM2 622-8**	1	0.350
		0.3 ... 63	300		[S]	A	**5SM2 625-8**	1	0.350
	**3-pole** 	0.3 ... 40	30	3		A	**5SM2 332-6**	1	0.365
			300			A	**5SM2 632-6**	1	0.365
		0.3 ... 63	30			A	**5SM2 335-6**	1	0.365
			300			A	**5SM2 635-6**	1	0.365
			300		[S]	A	**5SM2 635-8**	1	0.365
			1 000		[S]	A	**5SM2 835-8**	1	0.365
	**4-pole** 	0.3 ... 40	30	3		A	**5SM2 342-6**	1	0.365
			300			A	**5SM2 642-6**	1	0.400
		0.3 ... 63	30			A	**5SM2 345-6**	1	0.400
			300			A	**5SM2 645-6**	1	0.400
			300		[S]	A	**5SM2 645-8**	1	0.400
			1 000		[S]	A	**5SM2 845-8**	1	0.400

1) For the retrofitting concept, please see page 2/58.

2) Not for 5SY6...-.KV

(Type A)

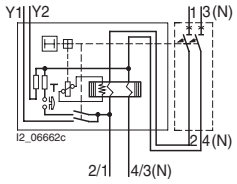
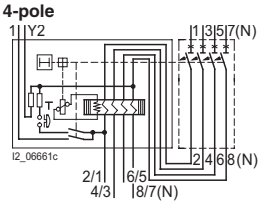
2

RCCB modules
70 mm mounting depth

Area of application

- 2-pole U_n: 125/230 V, 50-60 Hz; 3- and 4-pole U_n: 230/400 V, 50-60 Hz; applicable in networks: 2-pole: AC 125/240 V, 3- and 4-pole: AC 240/415 V
- Standards IEC/EN 61009-1 (VDE 0664, Part 20), IEC/EN 61009-2-1 (VDE 0664, Part 21)
- Design [S] for selective disconnection
- Can be individually retrofitted[1] in combination with miniature circuit-breakers of characteristic B and C.

Selection and ordering data

		Rated current	Rated fault current	MW	Design	DC	Order No.	Pack. unit*	Weight per unit approx.
		I_n	$I_{\Delta n}$						
		A	mA						kg
	RCCB modules for 5SP4 miniature circuit-breakers for AC and pulsating DC fault currents								
	2-pole								
		80 ... 100	30	3.5		A	**5SM2 327-6**	1	0.550
			300			A	**5SM2 627-6**	1	0.550
			300		[S]	A	**5SM2 627-8**	1	0.550
	4-pole								
		80 ... 100	30	5		A	**5SM2 347-6**	1	0.944
			300			A	**5SM2 647-6**	1	0.950
			300		[S]	A	**5SM2 647-8**	1	0.950
			1 000		[S]	A	**5SM2 847-8**	1	0.950

1) For the retrofitting concept, please see page 2/58.

*** This quantity or a multiple thereof can be ordered.**

Benefits

- Can be individually retrofitted[1)]
- Mounting with factory-installed clips
- Short-circuit protection via miniature circuit-breakers of characteristic B or 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.

Auxiliary switches (AS) and fault signal contacts (FC)
5ST3 0.0
5ST3 0.1
5ST3 0.2

- Max. contact load:

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

Auxiliary switches (AS)
5ST3 013
5ST3 014
5ST3 015

- Range of application 1 mA/DC 5 V up to 50 mA/DC 30 V.

Functions

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

Selection and ordering data

			MW	DC	Order No.	Pack. unit*	Weight per unit approx. kg
	**Auxiliary switches (AS) for 5SY.[2)], 5SP4 miniature circuit-breakers**						
		for low output	1 NO + 1 NC	0.5 A	**5ST3 010**	1	0.050
				A	**5ST3 013**	1	0.050
		for low output	2 NO	A	**5ST3 011**	1	0.050
				A	**5ST3 014**	1	0.050
		for low output	2 NC	A	**5ST3 012**	1	0.050
				A	**5ST3 015**	1	0.050
	**Auxiliary switches (AS) for 5SY.[2)], 5SP4 miniature circuit-breakers**						
			1 NO + 1 NC	0.5 A	**5ST3 020**	1	0.050
			2 NO	A	**5ST3 021**	1	0.050
			2 NC	A	**5ST3 022**	1	0.050

1) For the retrofitting concept, please see page 2/58.
2) Not for 5SY6...-.KV

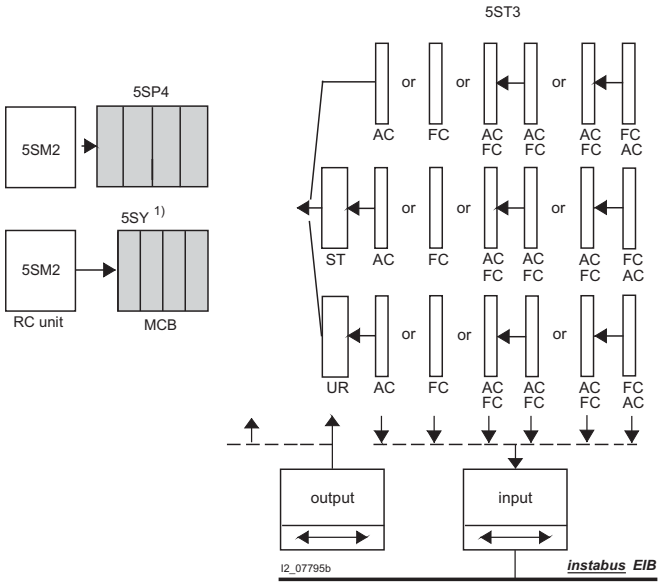
*** This quantity or a multiple thereof can be ordered.**

Auxiliary switches, fault signal contacts 70 mm mounting depth

Design

Retrofitting concept

According to the retrofitting concept, all 5ST3 supplementary components can be combined with miniature circuit-breakers from the 5SY[1] and 5SP4 series:



Benefits

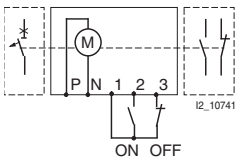
Remote-controlled operating mechanism

- Can be retrofitted individually[2]
- Mounting with factory-installed clips
- Can be mechnically locked
- Supplementary components can be retrofitted
- Function selector switch on the front
- Connectable to *instabus EIB* and AS-Interface bus via binary inputs and outputs
- U_n = 230 V, 50 to 60 Hz

Functions

- Remote switching ON/OFF of the miniature circuit-breaker and ON of the RCCB module
- In the case of fault conditions, remote on-switching is possible after acknowledgement
- Manual switching on site is possible
- Remote display of the switching status of the remote-controlled operating mechanism and the miniature circuit-breaker

Selection and ordering data

		Rated voltage U_n AC V	MW	DC	Order No.	Pack. unit*	Weight per unit approx. kg
Remote-controlled operating mechanism (RC) for 5SY[1] and 5SP4 miniature circuit-breakers							
		230	3.5	X	**5ST3 050**	1	0.390

1) Not for 5SY6...-.KV

2) For the retrofitting concept, see above

*** This quantity or a multiple thereof can be ordered.**

Area of application

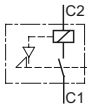
***Shunt trip*[1)]**

- Response limits acc. to DIN VDE 0660 Part 100, 7.2.1.4
- Suitable for voltages: Connectable to the *instabus EIB* and the AS-Interface Bus via binary outputs AC 110 to 415 V, DC 110 V, AC/DC 24 to 48 V.

Functions

Remote tripping of the miniature circuit-breaker.

Selection and ordering data

		MW	DC	Order No.	Pack. unit*	Weight per unit approx.
						kg
Shunt trip (ST) for 5SY[2)], 5SP4 miniature circuit-breakers						
 	AC 110-415 V	1	A	**5ST3 030**	1	0.098
	AC/DC 24-48 V	1	A	**5ST3 031**	1	0.098

Area of application

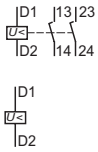
***Undervoltage release*[1)]**

- Response limits acc. to DIN VDE 0660 Part 100, 7.2.1.3
- Suitable for voltages:
  AC 230 V
  DC 110 V
  DC 24 V
- Connectable to *instabus EIB* and AS-Interface bus via binary inputs.

Functions

- Applicable as remote trip in an EMERGENCY-OFF loop
- Assures disconnection of the control circuit acc. to EN 60204
- In cases of interrupted or insufficient voltage, the undervoltage release trips the miniature circuit-breaker or prevents it from switching on.

Selection and ordering data

		MW	DC	Order No.	Pack. unit*	Weight per unit approx.
						kg
Undervoltage release (UR) for 5SY[2)], 5SP4 miniature circuit-breakers						
 	AC 230 V	1	A	**5ST3 040**	1	0.115
	DC 110 V		A	**5ST3 041**	1	0.115
	DC 24 V		A	**5ST3 042**	1	0.115
	AC 230 V	1	A	**5ST3 043**	1	0.115
	DC 110 V		A	**5ST3 044**	1	0.115
	DC 24 V		A	**5ST3 045**	1	0.115

1) For the retrofitting concept, please see page 2/58.

2) Not for 5SY6...-.KV

Accessories

Busbar system

2

Area of 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 and 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	DC	Order No.	Pack. unit*	Weight per unit approx.
		mm				kg
Accessories for 5SY6, 5SY4, 5SY7, 5SY8, 5SY5 miniature circuit-breakers						
	**Busbar**					
	Fully insulated:					
	1-phase	214	A	**5ST3 700**	50	0.040
	1-phase + AS		A	**5ST3 702**	50	0.040
	2-phase		A	**5ST3 704**	25	0.060
	2-phase + AS		A	**5ST3 706**	25	0.060
	3-phase		A	**5ST3 708**	25	0.100
	3-phase + AS		A	**5ST3 711**	25	0.100
	3 × (1-phase +AS)		A	**5ST3 713**	25	0.100
	4-phase		A	**5ST3 715**	20	0.150
	3-phase, for a 5SM3 4-pole RCCB module with 8 miniature circuit-breakers:					
	3/N + 8 connections		A	**5ST3 717**	25	0.150
	Without end caps					
	1-phase	1016	A	**5ST3 701**	50	0.190
	1-phase + AS		A	**5ST3 703**	50	0.190
	2-phase		A	**5ST3 705**	20	0.290
	2-phase + AS		A	**5ST3 707**	20	0.290
	3-phase		A	**5ST3 710**	20	0.430
	3-phase + AS		A	**5ST3 712**	20	0.430
	3 × (1-phase + AS)		A	**5ST3 714**	20	0.430
	4-phase		A	**5ST3 716**	15	0.700
	**End caps** for lateral insulation of cut-to-length busbars					
	2- and 3-phase		A	**5SH5 514**	10	0.001
	4-phase		A	**5ST3 718**	10	0.001

*** This quantity or a multiple thereof can be ordered.**

for 70 mm mounting depth

Selection and ordering data

		DC	Order No.	Pack. unit*	Weight per unit approx.
					kg
Accessories for 5SY6[1], 5SY4, 5SY7, 5SY8, 5SY5, 5SP4 miniature circuit-breakers					
	**Handle locking device** applicable with all types of poles; sealable against unintended on- and off-switching; padlock with a shackle of max. 3 mm	A	**5ST3 801**	1	0.008
	**Terminal cover** applicable with all types of poles; as an additional cover for screw openings; prevents removal of the device from the standard mounting rail; sealable	A	**5ST3 800**	10	0.001
	**Padlock** for 5ST3 801 handle locking device	A	**5ST3 802**	1	0.027
	Locking device consisting of 5ST3 801 handle locking device and 5ST3 802 padlock	A	**5ST3 803**	1 set	0.035

1) Not for 5SY6...-.KV

for 55 mm and 70 mm mounting depth

Functions

Inscription labels

- Self-adhesive
- Inscription options:
  - manually, with smear-resistant and water-proof markers
  - via computer-controlled labeling system.

Benefits

- Saves time and costs
- Uniform and legible inscriptions
- Supports all types of inscription possibilities, including special characters
- Easy data entry and program operation via interactive dialog.

For further information, please contact:
Murrplastik-Systemtechnik GmbH
Fabrikstrasse 10
D-71570 Oppenweiler Germany

Selection and ordering data

		DC	Order No.	Pack. unit*	Weight per unit approx.
					kg
	**Inscription labels (white) for miniature circuit-breakers** 15 x 9 mm, 3 frames containing 44 labels each, attachable to the lower casing collar	A	**5ST2 173**	1 set	0.038

* This quantity or a multiple thereof can be ordered.