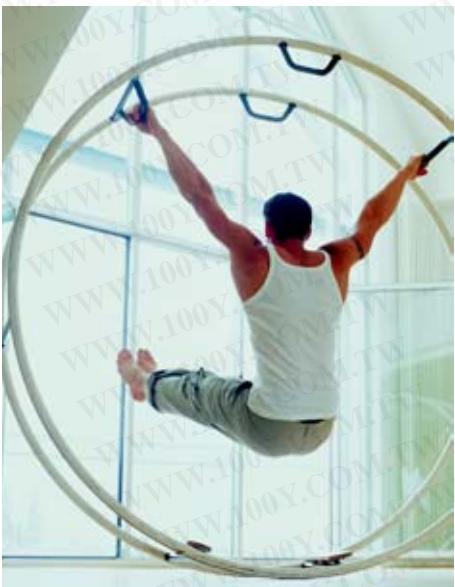


BETA Modular Installation Devices



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BETA Modular Installation Devices

Introduction

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Overview



Line protection fuses and fuse systems

NEOZED	MINIZED 5SG7 switch disconnectors	DIAZED 5SH	3NH LV HRC fuse links	3NW cylindrical fuses
5SG7 fuse links, -bases, -disconnectors		5SF1 fuse links, -bases	Fuse links, -bases, -signal detectors	Fuse links, -bases

BETA fuses, fuse systems, busbar systems

Operational classes	gG	gG	gG, gR slow/quick	gG	gG
Rated voltage V AC	400	400/415	500/690/750	500/690	400/500
V DC	250	48/110	500/600/750	250/440	--



	Standard product range	High-capacity product range	AC/DC product range	High-current product range	Power supply company product range
	5SJ6, 5SY6	5SY4, 5SY7, 5SY8	5SY5	5SP4	5SP3

BETA miniature circuit-breakers

Tripping characteristic	V	B, C, D	A, B, C, D	B, C	B, C, D	E
Rated currents A	0,3 ... 63		0,3 ... 80	0,3 ... 63	80 ... 125	16 ... 100
Rated short-circuit capacity kA	6		10, 15, 25	10	10	25



Lightning arresters Requirement category B, 1-pole and 3-pole 5SD7	Combination arresters Requirement category B, multi-pole 5SD7	Surge arresters Requirements category C, 1-pole and multi-pole 5SD7	Surge arresters Requirement category D 5SD7
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BETA lightning and surge arresters

Rated voltage V	230, 400	230, 400	230, 400	230
Surge arrester rated voltage V	255	255	255 ... 385	255
Discharge capacity kA	50 ... 100	25 ... 100	15 ... 20	2,5



Time and pulse counters 5KT5	Analog measuring devices 7KT10	Digital measuring devices 7KT11	Multimeters 7KT11
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Measuring devices

Application	Monitoring of operating hours and starting operations of devices or plants	Voltage and current measurement, monitoring input and output currents or device currents	Voltage and current measurement, monitoring input and output currents or device currents	For the display and assessment of 23 electrical measured values in switchgear, incoming supplies and outgoing feeders
-------------	--	--	--	---



Semiconductor fuses SITOR 3NE, 3NC LV HRC fuse links, cylindrical fuse links	SITOR for special applications Fuse links	SILIZED 5SD, 5SE NEOZED, DIAZED fuse links	3ND, 3NW fuse links for motor circuits LV HRC fuse links, cylindrical fuse links	American/Canadian fuses Class CC Fuse links and -holders	SR 60 busbar system
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gR, aR, gR, gS 500 ... 2500 400 ... 700 1 ... 1000	aR, gR 600 ... 1000 -- 50 ... 1250	gR 400/500 250/500 10 ... 100	aM 400/500/690 -- 0,5 ... 630	Slow/quick/slow, current limiting 600 300 0,6... 30	-- 690 -- Up to 630
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Residual current
operated circuit-
breakers (RCCBs)
5SM3

SIQUEENCE residual
current operated cir-
cuit-breakers (RCCBs),
AC/DC sensitive
5SM3

SIQUEENCE RCCBs with
integral overcurrent pro-
tection (RCBOs),
AC/DC sensitive
5SU1

RCCBs with inte-
gral overcurrent pro-
tection (RCBOs)
5SU1

RC units for
miniature
circuit-breakers
5SM2

RC socket outlets
5SM1, 5SZ9

BETA residual current operated circuit-breakers

Types of current	Type A	Type B	Type B	Type A	Type A	Type A
Rated current	A	16 ... 125	25 ... 80	100, 125	6 ... 40	0,3 ... 100
Rated residual current	mA	10 ... 1000	30, 300	30, 300	10 ... 300	10 ... 1000



Socket outlets

5TE6

BETA power supply devices

Application	Power supply for maintenance of distribution boards
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Multicounters 7KT1 3	E-counters 7KT1 1, 7KT1 5	LAN couplers 7KT1 390	Measuring selector switches 7KT9 0	Current transformers 7KT1 2
-------------------------	------------------------------	--------------------------	---------------------------------------	--------------------------------

For the display and assessment of 35 electrical measured values and consumption values in switchgear, incoming supplies and outgoing feeders	For the measurement of kWh in 1-phase and 3-phase systems, e.g. in industrial plants, offices and apartments in apartment houses	Worldwide data communica- tion with measuring devices using LAN/Internet	For switching phases for volt- meters and ammeters	For non-contact measuring of primary currents of a 3-phase system
--	--	--	---	---

Fuses and Fuse Systems

NEOZED Fuse Systems

Product overview

Overview

Fuse links



- Rated voltage U_n 400 V AC, 250 V DC
- Rated current I_n 2 ... 100 A
- Sizes D01, D02 and D03
- Operational class gG

Fuse bases



- Made of ceramic or molded plastic
- Molded-plastic bases: With touch protection according to BGV A3 (VBG4)
- 1-pole and 3-pole
- Sizes D01 and D02
- Molded-plastic bases: Combined terminal at ingoing and outgoing feeder
- For standard rail mounting
- For busbar mounting

Fuse disconnectors



- Withdrawable design for safe, no-voltage changing of fuse links
- With touch protection according to BGV A2 (VBG4)
- Size D01
- Anti-slip terminal at ingoing and outgoing feeder
- For standard rail mounting
- For busbar mounting
- Sealable knob-operated switch

MINIZED switch disconnectors



- Withdrawable design for safe, no-voltage changing of fuse links
- With touch protection according to BGV A2 (VBG4)
- Sizes D01 and D02
- Combined terminal at ingoing and outgoing feeder
- For standard rail mounting
- For busbar mounting
- Sealable knob-operated switch
- Suitable for switching of loads

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Selection and ordering data

Size	I_n A	Identification color	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Rated voltage 400 V AC/250 V DC, operational class gG							
Consumer packing, package of 10							
D01	2 4 6 10 13 16	Pink Brown Green Red Black Gray	5SE2 302 5SE2 304 5SE2 306 5SE2 310 5SE2 013-2A 5SE2 316	016 016 016 016 016 016	0.006 0.006 0.006 0.007 0.007 0.007	10 units 10 units 10 units 10 units 10 units 10 units	
D02	20 25 32 35 40 50	Blue Yellow Black Black Black White	5SE2 320 5SE2 325 5SE2 332 5SE2 335 5SE2 340 5SE2 350	016 016 016 016 016 016	0.012 0.013 0.014 0.014 0.014 0.015	10 units 10 units 10 units 10 units 10 units 10 units	
D03	63 80 100	Copper Silver Red	5SE2 363 5SE2 280 5SE2 300	016 016 016	0.016 0.039 0.042	10 units 10 units 10 units	
Versions for Italy only (no approvals)							
D01	20 25	Blue Yellow	5SE2 820 5SE2 825	016 016	0.011 0.012	10 units 10 units	

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Fuses and Fuse Systems

NEOZED Fuse Systems

NEOZED fuse bases

Selection and ordering data

Size	I_n	Matching cover	Terminals ¹⁾	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
A							kg	Unit(s)	
Molded-plastic fuse bases with touch protection BGV A3 (VBG4)									
1-pole	D01 D02	16 63	— —	FR2	1.5	5SG1 301 5SG1 701	016 016	0.123 0.120	1 unit 1 unit
									
3-pole	D01 D02	16 63	— —	FR2	4.5	5SG5 301 5SG5 701	016 016	0.371 0.360	1 unit 1 unit
									
1-pole With cover	D01 D02	16 63	(A1) (A1)	FR0/R FR0/R	1.5 1.5	5SG1 330 5SG1 730	016 016	0.068 0.087	6 units 6 units
									
Without cover	D01 D02	16 63	A1 A1	FR0/R FR0/R	1.5 1.5	5SG1 331 5SG1 731	016 016	0.056 0.080	6 units 6 units
									
3-pole With cover	D01 D02	16 63	(A2) (A2)	FR0/R FR0/R	4.5 4.5	5SG5 330 5SG5 730	016 016	0.216 0.252	2 units 2 units
									

(A1) means that the fuse base is supplied with cover as standard.
 A1 means that the fuse base is supplied without cover,
 the cover can be ordered separately as a spare part.

- 1) For terminal version, see Catalog ET B1.
 FR0/R = incoming/outgoing cable

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Fuses and Fuse Systems

NEOZED Fuse Systems

NEOZED fuse bases

	Size	I_n	Matching cover	Terminals ¹⁾	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
	A								kg	Unit(s)
Fuse bases made of ceramic										
1-pole										
With cover										
	D01	16	(A4)	BB	1.5	5SG1 553		016	0.083	6 units
	D02	63	(A10)	SS	1.5	5SG1 653		016	0.093	6 units
	D02	63	(A10)	KS	1.5	5SG1 693		016	0.090	6 units
Without cover										
	D01	16	A4	BB	1.5	5SG1 595		016	0.071	6 units
	D02	63	A10	SS	1.5	5SG1 655		016	0.081	6 units
	D02	63	A10	KS	1.5	5SG1 695		016	0.078	6 units
	D03	100	A6, A9	KS	2.5	5SG1 812		016	0.176	1 unit
For screw connection only, without cover										
	D01	16	A4	BB	1.5	5SG1 590		016	0.061	6 units
	D02	63	A10	SS	1.5	5SG1 650		016	0.078	6 units
	D03	100	A6, A9	KS	2.5	5SG1 810		016	0.176	1 unit
With cap										
	D01	16	(A8)	BB	1.5	5SG1 594		016	0.105	6 units
	D02	63	(A8)	SS	1.5	5SG1 694		016	0.115	6 units
	D03	100	(A9)	KS	2.5	5SG1 813		016	0.242	1 unit
3-pole										
With cover										
	D01	16	(A5)	BB	4.5	5SG5 553		016	0.263	2 units
	D02	63	(A11)	SS	4.5	5SG5 653		016	0.240	2 units
	D02	63	(A11)	KS	4.5	5SG5 693		016	0.290	2 units
Without cover										
	D01	16	A5	BB	4.5	5SG5 555		016	0.228	2 units
	D02	63	A11	SS	4.5	5SG5 655		016	0.265	2 units
	D02	63	A11	KS	4.5	5SG5 695		016	0.255	2 units
For screw connection only, without cover										
	D01	16	A5	BB	4.5	5SG5 550		016	0.228	2 units
	D02	63	A11	SS	4.5	5SG5 650		016	0.260	2 units
	D02	63	A11	KS	4.5	5SG5 690		016	0.250	2 units

(A4) means that the fuse base is supplied with cover as standard.

A4 means that the fuse base is supplied without cover,
the cover can be ordered separately as a spare part.

1) For terminal version, see Catalog ET B1.

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Fuses and Fuse Systems

NEOZED Fuse Systems

NEOZED fuse bases

Accessories

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit	Unit(s)
NEOZED covers made of molded plastic							
For fuse bases made of molded plastic							
	Cover A1 (for sizes D01, D02), clip-on	1.5	5SH5 244	016	0.008	5 units	
	Cover A2 (for sizes D01, D02), clip-on	4.5	5SH5 245	016	0.017	5 units	
For fuse bases made of ceramic							
	Cover A4 (for size D01), clip-on	1.5	5SH5 251	016	0.012	5 units	
	Cover A10 (for size D02), clip-on	1.5	5SH5 253	016	0.020	5 units	
	Cover A5 (for size D01), clip-on	4.5	5SH5 252	016	0.035	1 unit	
	Cover A11 (for size D02), clip-on	4.5	5SH5 254	016	0.045	1 unit	
	Cover A6 (for size D03), screw-on	2.5	5SH5 233	016	0.021	5 units	
NEOZED caps made of molded plastic							
	Cover A8 (for sizes D01, D02), clip-on	—	5SH5 235	016	0.034	5 units	
	Cover A9 (for size D03), screw-on	—	5SH5 234	016	0.066	1 unit	

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NEOZED fuse bases

Size	Length approx.	Conductor cross-section	Load rating up to	For terminals ¹⁾	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
	mm	mm ²	A						kg	Unit(s)
Busbars										
The load capacity values are valid for centered infeed. Fork-type terminals, non-insulated										
1-pole										
D01 and D02	1000	20	116	FR0, K	1.5	5SH5 321		016	0.214	1 unit
D02	1000	36	168	FR0, K	1.5	5SH5 322		016	0.321	1 unit
Fork-type terminals, insulated										
1-pole										
D01/D02	1000	24	160	FR0, K	1.5	5SH5 517		016	0.550	1 unit
3-pole										
D01/D02	1000	16	120	FR0, K	1.5	5SH5 320		016	0.843	1 unit
Pins, insulated Degree of pollution 2										
1-pole										
D01/D02	1000	16	130	FR2, S	1.5	5ST3 703		027	0.190	1 unit
3-pole										
D01/D02	1000	16	120	FR2, S	1.5	5ST3 714		027	0.430	1 unit
End caps for busbars										
For 5SH5 320										
For 5ST3 714										
For 5ST3 701										
Busbar adapters										
For clipping onto busbars 12 mm × 5 mm, with 40 mm center clearance, device width 4.5 MW, with connection cables 3 mm × 16 mm ² for rated current 63 A, for mounting of modular installation devices										
Busbar adapter for clipping onto busbars with 60 mm center clearance, see SR60 busbar system										
Busbar terminals										
Non-insulated, pin-type										
For conductors from 6 mm ² ... 35 mm ²										
										
5ST2 203										
027 0.001 1 unit										
Insulated, for clipping onto fork-type or pin-type										
For conductors from 6 mm ² ... 35 mm ²										
										
5ST2 157										
027 0.030 1 unit										
Insulated, fork-type										
For conductors from 6 mm ² ... 25 mm ²										
										
5SH5 328										
016 0.014 10 units										
Insulated, pin-type										
For conductors from 2 mm ² ... 25 mm ²										
										
5SH5 327										
016 0.014 10 units										
Non-insulated, pin-type										
For two conductors each 2 mm ² ... 16 mm ²										
										
5SH5 326										
016 0.016 1 unit										

1) For terminal version, see Catalog ET B1.

Fuses and Fuse Systems

NEOZED Fuse Systems

NEOZED fuse bases

Version/size		Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit	
NEOZED screw caps							
Molded plastic, with inspection hole							
D01		5SH4 116	016	0.007	10 units		
D02		5SH4 163	016	0.008	10 units		
Ceramic							
D01, sealable		5SH4 316	016	0.014	10 units		
D02, sealable		5SH4 363	016	0.015	10 units		
D03		5SH4 100	016	0.070	3 units		
Ceramic, with inspection hole							
D01		5SH4 317	016	0.014	10 units		
D02		5SH4 362	016	0.017	10 units		
Size	For fuse	Identification color	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit
Up to A							
NEOZED adapter sleeves							
D01	2	Pink	5SH5 002	016	0.001	10 units	
	4	Brown	5SH5 004	016	0.001	10 units	
	6	Green	5SH5 006	016	0.001	10 units	
	10/13	Red	5SH5 010	016	0.001	10 units	
D02	20	Blue	5SH5 020	016	0.001	10 units	
	25	Yellow	5SH5 025	016	0.001	10 units	
	32/35/40	Black	5SH5 035	016	0.001	10 units	
	50	White	5SH5 050	016	0.001	10 units	
D03	80	Silver	5SH5 080	016	0.001	10 units	
For adaptation of NEOZED fuse links D01 from 2 A ... 16 A, for insertion in NEOZED bases D02							
D02	2	Pink	5SH5 402	016	0.001	10 units	
	4	Brown	5SH5 404	016	0.001	10 units	
	6	Green	5SH5 406	016	0.001	10 units	
	10/13	Red	5SH5 410	016	0.001	10 units	
	16	Gray	5SH5 416	016	0.001	10 units	
NEOZED adapter sleeve filters		5SH5 100	016	0.016	1 unit		
NEOZED retaining springs							
For adapting NEOZED D02 screw caps to insert NEOZED D01 fuse links							
D02	2 ... 16		5SH5 400	016	0.001	25 units	
For application in the new German Laender, for adaptation of DL screw caps to insert NEOZED fuse links D01 in DL bases.							
DL	2 ... 16		5SH5 417	016	0.001	25 units	

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Fuses and Fuse Systems

NEOZED Fuse Systems

NEOZED fuse disconnectors

Selection and ordering data

	Number of poles A	I_n	Terminals	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
D01, withdrawable design									
	1	16	FR1	1	5SG7 610	016	0.070	1 unit	
	1 + N	16	FR1	2	5SG7 650	016	0.150	1 unit	
	2	16	FR1	2	5SG7 620	016	0.150	1 unit	
	3	16	FR1	3	5SG7 630	016	0.220	1 unit	
	3 + N	16	FR1	4	5SG7 660	016	0.300	1 unit	

Accessories

	Size mm	Length approx. mm	Conductor cross-section mm ²	Load rating up to A	Version	Order No.	Price 1 unit kg	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
The load capacity values are valid for centered infeed.										
Fork terminals, insulated										
Degree of pollution 2										
	Busbars, 1-phase									
D01	220	16	120	120	With end caps	5ST2 186 5ST2 190	027 027	0.090 0.500	1 unit 1 unit	
	1000	16								
	Busbars, 2-phase									
D01	220	16	120	120	With end caps	5ST2 187 5ST2 191	027 027	0.160 0.710	1 unit 1 unit	
	1000	16								
	Busbars, 3-phase									
D01	220	16	120	120	With end caps	5ST2 188 5ST2 192	027 027	0.230 1.100	1 unit 1 unit	
	1000	16								
	End caps for busbars									
	1-phase									
	2-phase and 3-phase									
						5ST3 748 5ST2 197	027 027	0.001 0.001	1 unit 1 unit	

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* You can order this quantity or a multiple thereof.

Fuses and Fuse Systems

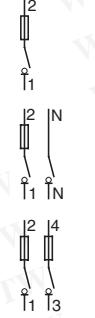
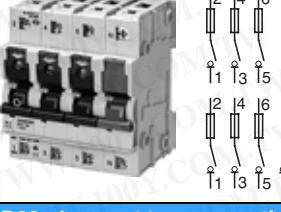
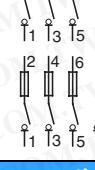
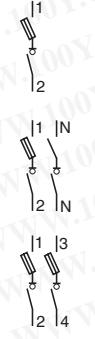
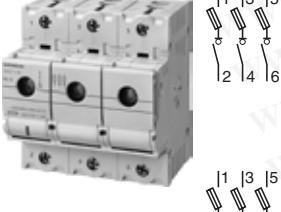
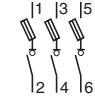
NEOZED Fuse Systems

MINIZED switch disconnectors

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Selection and ordering data

	Number of poles	I_n A	Terminals	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
D01, withdrawable design, mounting depth 55 mm									
For standard rail mounting Anti-slip terminal at ingoing and outgoing feeder									
	1	16	R	1	5SG7 713	016	0.080	1 unit	
		Version for Italy only (no approvals) 25			5SG7 713-1B	016	0.080	1 unit	
	2	16	R	2	5SG7 753	016	0.150	1 unit	
		Version for Italy only (no approvals) 25			5SG7 753-1B	016	0.150	1 unit	
	3	16	R	3	5SG7 733	016	0.254	1 unit	
		Version for Italy only (no approvals) 25			5SG7 733-1B	016	0.254	1 unit	
	3 + N	16	R	4	5SG7 763	016	0.310	1 unit	
		Version for Italy only (no approvals) 25			5SG7 763-1B	016	0.310	1 unit	
D02, draw-out type, mounting depth 70 mm									
For standard rail mounting Neutral conductor leading switch-on, delayed switch-off Anti-slip terminal at ingoing and outgoing feeder									
Enclosure, handle									
• Silicone-free, chlorine-free • Temperature resistant up to 140 °C • Self-extinguishing according to UL 94 • Creep resistance CTI 200									
Fuse holder									
• Silicone-free, halogen-free • Temperature resistant up to 150 °C • Self-extinguishing according to UL 94									
	1	63	FR2	1.5	5SG7 113	016	0.145	1 unit	
	1 + N	63	FR2	3	5SG7 153	016	0.267	1 unit	
	2	63	FR2	3	5SG7 123	016	0.283	1 unit	
	3	63	FR2	4.5	5SG7 133	016	0.421	1 unit	
		Versions for Austria only (with permanently installed sleeve inserts, including fuse link)							
		3	25		5SG7 133-8BA25				
		35			5SG7 133-8BA35				
		50			5SG7 133-8BA50				
	3 + N	63	FR2	6	5SG7 163	016	0.540	1 unit	

* You can order this quantity or a multiple thereof.

Accessories

Size	Length approx.	Conductor cross-section	Load rating up to	For terminals ¹⁾	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
									kg	Unit(s)
For MINIZED D01, withdrawable design, mounting depth 55 mm										
	Busbars Pins, insulated, degree of soiling 2, 3-pole	D01	1000	16	120	R	1	5ST3 710	027	0.430
	D01	214	16	120	R	R	1	5ST3 708	027	0.100
	Terminals Not insulated, up to 25 mm ²							5SH5 510	016	0.012
Size						Contact load				
For MINIZED D02, withdrawable design, mounting depth 70 mm										
	Auxiliary switches • For indicating the switching state of the switch disconnector • Can be retrofitted individually with factory-installed clips						5ST3 010	027	0.050	1 unit
	1 NO + 1 NC Width 0.5 MW									
	Min. contact load		50 mA, 24 V							
	Max. contact load									
	• NO contact		AC-14, 2 A, 400 V AC AC-14, 6 A, 230 V AC DC-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							
	• NC contact		AC-13, 2 A, 400 V AC AC-13, 6 A, 230 V AC DC-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							
Size						MW				
For MINIZED D02, withdrawable design, mounting depth 70 mm										
	Busbars Pins, insulated, degree of pollution 2	D02	1000	16	130	FR2	1.5	5ST3 703	027	0.190
	1-pole	D02	1000	16	120	FR2	1.5	5ST3 714	027	0.430
	End caps for busbars For 5ST3 708, 5ST3 710, 5ST3 714							5ST3 750	027	0.001
	For 5ST3 701							5ST3 748	027	0.001

1) For terminal versions, see Catalog ET B1 T.

Fuses and Fuse Systems

NEOZED Fuse Systems

MINIZED switch disconnectors

Size	For fuse Up to A	Identification color	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Reducers For NEOZED fuse links D01			5SH5 527		016	0.003	10 units
NEOZED adapter sleeves							
D01	2 4 6 10/13 16 20 25 32/35/40 50	Pink Brown Green Red Gray Blue Yellow Black White	5SH5 402 5SH5 404 5SH5 406 5SH5 410 5SH5 416 5SH5 020 5SH5 025 5SH5 035 5SH5 050		016	0.001	10 units
D02					016	0.001	10 units
NEOZED adapter keys			5SH5 100		016	0.016	1 unit

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Fuses and Fuse Systems

DIAZED Fuse Systems

DIAZED fuse links

Selection and ordering data

Size	I_n	Identification color	Thread	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
A						kg	Unit(s)	
Rated voltage 500 V AC/500 V DC								
DIN VDE 0635								
Characteristic slow								
TNDz	2	Pink	E16	5SA2 11	016	0.013	10 units	
	4	Brown		5SA2 21	016	0.013	10 units	
	6	Green		5SA2 31	016	0.013	10 units	
	10	Red		5SA2 51	016	0.013	10 units	
	16	Gray		5SA2 61	016	0.013	10 units	
	20	Blue		5SA2 71	016	0.015	10 units	
	25	Yellow		5SA2 81	016	0.016	10 units	
Characteristic quick								
NDz	2	Pink	E16	5SA1 11	016	0.013	10 units	
	4	Brown		5SA1 21	016	0.013	10 units	
	6	Green		5SA1 31	016	0.013	10 units	
	10	Red		5SA1 51	016	0.013	10 units	
	16	Gray		5SA1 61	016	0.013	10 units	
	20	Blue		5SA1 71	016	0.015	10 units	
	25	Yellow		5SA1 81	016	0.016	10 units	
DIN VDE 0636-301, IEC 60269-3-1								
Operational class gG								
DII	2	Pink	E27	5SB2 11	016	0.026	5 units	
	4	Brown		5SB2 21	016	0.026	5 units	
	6	Green		5SB2 31	016	0.026	5 units	
	10	Red		5SB2 51	016	0.027	5 units	
	16	Gray		5SB2 61	016	0.028	5 units	
	20	Blue		5SB2 71	016	0.029	5 units	
	25	Yellow		5SB2 81	016	0.031	5 units	
DIII	32	Black	E33	5SB4 010	016	0.048	5 units	
	35	Black		5SB4 11	016	0.050	5 units	
	50	White		5SB4 21	016	0.051	5 units	
	63	Copper		5SB4 31	016	0.054	5 units	
DIV ¹⁾	80	Silver	R1½"	5SC2 11	016	0.110	3 units	
	100	Red		5SC2 21	016	0.110	3 units	
DIN VDE 0635								
Characteristic quick								
For 5SB1 41, a DIAZED screw adapter for 6 A is used.								
DII	2	Pink	E27	5SB1 11	016	0.026	5 units	
	4	Brown		5SB1 21	016	0.026	5 units	
	6	Green		5SB1 31	016	0.026	5 units	
	10	Red		5SB1 41	016	0.026	5 units	
	10	Red		5SB1 51	016	0.027	5 units	
	16	Gray		5SB1 61	016	0.028	5 units	
	20	Blue		5SB1 71	016	0.029	5 units	
	25	Yellow		5SB1 81	016	0.031	5 units	
DIII	35	Black	E33	5SB3 11	016	0.050	5 units	
	50	White		5SB3 21	016	0.051	5 units	
	63	Copper		5SB3 31	016	0.054	5 units	
DIV	80	Silver	R1½"	5SC1 11	016	0.110	3 units	
	100	Red		5SC1 21	016	0.110	3 units	

1) Rated voltage 500 V AC/400 V DC.

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Fuses and Fuse Systems

DIAZED Fuse Systems

DIAZED fuse links

Size	I_n	Identification color	Thread	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
	A					kg	Unit(s)	
Rated voltage 690 V AC/600 V DC								
DIN VDE 0636-301, IEC 60269-3-1								
DIII	2 4 6 10 16 20 25 35 50 63	Pink Brown Green Red Gray Blue Yellow Black White Copper	E33	5SD8 002 5SD8 004 5SD8 006 5SD8 010 5SD8 016 5SD8 020 5SD8 025 5SD8 035 5SD8 050 5SD8 063	016 016 016 016 016 016 016 016 016 016	0.068 0.068 0.068 0.068 0.069 0.071 0.072 0.078 0.080 0.082	5 units 5 units 5 units 5 units 5 units 5 units 5 units 5 units 5 units 5 units	

Rated voltage 750 V AC/750 V DC

DIII	2 4 6 10 16 20 25 35 50 63	Pink Brown Green Red Gray Blue Yellow Black White Copper	E33	5SD6 01 5SD6 02 5SD6 03 5SD6 04 5SD6 05 5SD6 06 5SD6 07 5SD6 08 5SD6 10 5SD6 11	016 016 016 016 016 016 016 016 016 016	0.068 0.068 0.068 0.068 0.069 0.071 0.072 0.078 0.080 0.082	5 units 5 units 5 units 5 units 5 units 5 units 5 units 5 units 5 units 5 units	
DIN VDE 0635								

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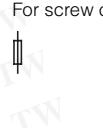
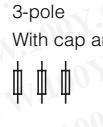
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Fuses and Fuse Systems

DAIZED Fuse Systems

DAIZED fuse bases

Selection and ordering data

	Size A	I_n	Thread	Terminals ¹⁾	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Fuse bases made of ceramic									
Rated voltage 500 V AC/500 V DC (for 690 V AC/600 V DC, size DIII bases are to be used together with DIAZED 5SH1 170 screw caps and DIAZED 5SD8 fuse links)									
1-pole									
	NDz	25	E16	KK	5SF1 012		016	0.060	5 units
	DII	25	E27	BB	5SF1 005		016	0.093	5 units
	DIII	63	E33	BS	5SF1 205		016	0.191	5 units
	DIII	63	E33	SS	5SF1 215		016	0.154	5 units
For screw connection only									
	NDz	25	E16	KK	5SF1 01		016	0.055	5 units
	DII	25	E27	BB	5SF1 024		016	0.093	5 units
	DIII	63	E33	BS	5SF1 224		016	0.137	5 units
	DIII	63	E33	SS	5SF1 214		016	0.141	5 units
	DIV	100	R1¼"	Flat connector	5SF1 401		016	0.380	1 unit
Rated voltage 750 V AC/750 V DC only for DIAZED 5SH1 161 screw caps, only for DIAZED screw adapters DII and DIII, only for DIAZED 5SD6 fuse links, with fine thread, with cap.									
1-pole									
	DIII	63	E33S	KK	5SF4 230		016	0.460	1 unit
Rated voltage 500 V AC/500 V DC (for 690 V AC/600 V DC, size DIII bases are to be used together with DIAZED 5SH1 170 screw caps and DIAZED 5SD8 fuse links)									
3-pole									
With cap and N-type fixpoint terminal									
	DII	3 × 25	E27	BB	5SF5 067		016	0.400	1 unit
	DIII	3 × 63	E33	BB	5SF5 237		016	0.580	1 unit
For screw connection only, with cap and N-type fixpoint terminal									
	DII	3 × 25	E27	KB	5SF5 066		016	0.410	1 unit
	DIII	3 × 63	E33	KB	5SF5 236		016	0.590	1 unit

1) For terminal designations, see Catalog ET B1 T.

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Fuses and Fuse Systems

DIAZED Fuse Systems

DIAZED fuse bases

	Size	I_n	Thread	Terminals ¹⁾	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
	A								
Fuse bases made of molded plastic									
With touch protection according to BGV A3 (VBG4) Rated voltage 500 V AC/500 V DC for mounting rail or screw connection Anti-slip terminal at ingoing and outgoing feeder Enclosure: Silicone-free Halogen-free Temperature-resistant up to 150 °C Creep resistance CTI 225 According to UL 94									
	1-pole	DII DIII	25 63	E27 E33	RR RR	5SF1 060 5SF1 260	016 016	0.152 0.186	3 units 3 units
	3-pole	DII DIII	3 × 25 3 × 63	E27 E33	RR RR	5SF5 068 5SF5 268	016 016	0.457 0.538	1 unit 1 unit
DIAZED bus-mounting bases, EZR									
For clipping onto 5SH3 5 busbars Only for screw connection									
	1-pole	DII DIII	25 63	E27 E33	B B	5SF6 005 5SF6 205	016 016	0.072 0.135	5 units 5 units
	3-pole	DII	3 × 25	E27	B	5SF2 07	016	0.351	1 unit

1) For terminal designations, see Catalog ET B1 T.

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Fuses and Fuse Systems

DAIZED Fuse Systems

DAIZED fuse bases

Accessories

	Size	Thread	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Mounting parts							
	DIAZED busbars with oblong holes Approx. 1000 mm long Cross-section: 12 mm x 2 mm, load capacity up to 80 A For DII, sufficient for 25 bases		5SH3 500	016	0.095	1 unit	
	Cross-section: 13 mm x 3 mm, load capacity up to 120 A For DIII, sufficient for 19 bases		5SH3 501	016	0.180	1 unit	
	Terminals, non-insulated Pin, for two conductors from 2 x 1.5 mm ² to 16 mm ²		5SH5 326	016	0.016	1 unit	
	Fork-type, for conductors up to 35 mm ²		5SH3 502	016	0.010	10 units	
	Busbars for DIAZED EZR bus-mounting bases Suitable for fork-type terminal connection, ready-made drilling with thread for screw adapters, approx. 2000 mm long Cross-section: 16 mm x 3 mm, load capacity up to 150 A For lateral incoming supply For DII Sufficient for 42 5SF6 005 bases For DII and DIII Sufficient for 34 5SF6 205 bases For DIII Sufficient for 27 5SF2 07 bases		5SH3 54 5SH3 55 5SH3 56	016 016 016	0.740 0.740 0.740	1 unit 1 unit 1 unit	
	EZR bus-mounting terminals Non-insulated For conductors up to 16 mm ² For conductors up to 35 mm ²		8JH4 122 8JH4 124	046 046	0.012 0.024	1 unit 1 unit	
DIAZED covers							
	DIAZED covers Molded plastic Not suitable for SILIZED fuse links 1-pole (5 DIAZED bases = 12 MW) DII E27 (4 DIAZED bases = 12 MW) DIII E33		5SH2 032 5SH2 232	016	0.017	10 units	
	Caps Molded plastic 1-pole NDz E16 DII E27 DIII E33		5SH2 01 5SH2 02 5SH2 22	016 016 016	0.028 0.038 0.048	5 units 5 units 5 units	
	Cover rings 1-pole Molded plastic Also for bus-mounting base EZR DII E27 DIII E33		5SH3 401 5SH3 411	016 016	0.013 0.014	5 units 5 units	
	Ceramic DII and DIII also for bus-mounting base EZR NDz E16 DII E27 DIII E33		5SH3 30 5SH3 32 5SH3 34	016 016 016	0.020 0.029 0.035	5 units 10 units 10 units	

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Fuses and Fuse Systems

DIAZED Fuse Systems

DIAZED fuse bases

Size	Thread	For fuse links	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
	A						
Screw adapters, adapter sleeves							
DIAZED screw adapters							
NDz	E16	2 4 6 10 16	5SH3 28 5SH3 31 5SH3 05 5SH3 06 5SH3 07	016 016 016 016 016	0.002 0.002 0.002 0.002 0.002	10 units 10 units 10 units 10 units 10 units	
Also for mounting in DIAZED base DIII DII ¹⁾	E27	2 4 6 10 16 20	5SH3 10 5SH3 11 5SH3 12 5SH3 13 5SH3 14 5SH3 15	016 016 016 016 016 016	0.015 0.015 0.015 0.015 0.014 0.012	10 units 10 units 10 units 10 units 10 units 10 units	
DIII ¹⁾	E33	25 35 50 63	5SH3 16 5SH3 17 5SH3 18 5SH3 20	016 016 016 016	0.012 0.019 0.018 0.017	10 units 10 units 10 units 10 units	
DIAZED adapter sleeves for DIV bases							
DIV	R1¼"	80 100	5SH3 21 5SH3 22	016 016	0.006 0.005	10 units 10 units	
DIAZED adapter sleeves For snapping onto DIAZED screw caps, if E16 DIAZED fuse links are inserted in DII DIAZED bases if DII DIAZED fuse links are inserted in DIII DIAZED bases							
			5SH3 01 5SH3 02	016 016	0.012 0.023	10 units 10 units	
DIAZED adapter sleeve filters for DII/DIII							
			5SH3 703	016	0.025	1 unit	

1) Suitable for a rated voltage of up to 750 V.

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DIAZED Fuse Systems

DIAZED fuse bases

Size	I_n	Thread	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
DIAZED screw caps							
Rated voltage 500 V AC/500 V DC							
Ceramic							
NDz	25	E16	5SH1 11		016	0.016	5 units
Molded plastic, with inspection hole, black, not for SILIZED fuse links							
DII	25	E27	5SH1 221	016	0.026	5 units	
DIII	63	E33	5SH1 231	016	0.042	5 units	
Narrow version, ceramic							
DII	25	E27	5SH1 12	016	0.034	5 units	
DIII	63	E33	5SH1 13	016	0.059	5 units	
Mushroom shape, ceramic, with inspection hole, sealable							
DII	25	E27	5SH1 22	016	0.050	5 units	
DIII	63	E33	5SH1 23	016	0.080	5 units	
Ceramic							
DIV	100	R1 1/4"	5SH1 141	016	0.181	1 unit	
Rated voltage 750 V AC/750 V DC							
Only for 5SD6 DIAZED fuse links and 5SF4 230 DIAZED fuse bases							
Ceramic, with fine thread							
DIII	63	E33S	5SH1 161	016	0.084	1 unit	
Rated voltage 690 V AC/600 V DC							
Only for 5SD8 DIAZED fuse links							
Ceramic, extended version							
DIII	63	E33	5SH1 170	016	0.086	1 unit	

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse links gG

Selection and ordering data

Size	Width mm	I_n A	U_n V	Insulated grip lugs Order No.	PG	Weight 1 unit approx.	PS*/ P. unit
LV HRC fuse links with integrated indicator, operational class gG							
000	21	10 16 20 25 32 35 40 50 63 80 100	400 V AC	3NA6 803-4 3NA6 805-4 3NA6 807-4 3NA6 810-4 3NA6 812-4 3NA6 814-4 3NA6 817-4 3NA6 820-4 3NA6 822-4 3NA6 824-4 3NA6 830-4	013 013 013 013 013 013 013 013 013 013 013	0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135	3 units 3 units
00	30	80 100 125 160	400 V AC	3NA6 824-4KK 3NA6 830-4KK 3NA6 832-4 3NA6 836-4	013 013 013 013	0.200 0.200 0.200 0.200	3 units 3 units 3 units 3 units
1	30	35 40 50 63 80 100 125 160 47.2 200 224 250	400 V AC	3NA6 114-4 3NA6 117-4 3NA6 120-4 3NA6 122-4 3NA6 124-4 3NA6 130-4 3NA6 132-4 3NA6 136-4 3NA6 140-4 3NA6 142-4 3NA6 144-4	013 013 013 013 013 013 013 013 013 013 013 013	0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.430 0.430 0.430	3 units 3 units
2	47.2	50 63 80 100 125 160 200 224 250 300 315 355 400	400 V AC	3NA6 220-4 3NA6 222-4 3NA6 224-4 3NA6 230-4 3NA6 232-4 3NA6 236-4 3NA6 240-4 3NA6 242-4 3NA6 244-4 3NA6 250-4 3NA6 252-4 3NA6 254-4 3NA6 260-4	013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.650 0.650 0.650 0.650 0.650	3 units 3 units

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse links gG

Size	Width	I_n	U_n	Non-insulated grip lugs	Insulated grip lugs	PG	Weight 1 unit approx.	PS*/P. unit		
mm	A	V		Order No.	Price 1 unit	Order No.	Price 1 unit	kg	Unit(s)	
LV HRC fuse links with integrated indicator, operational class gG										
		000	21	2 4 6 10 16 20 25 32 35 40 50 63 80 100	500 V AC/ 250 V DC	3NA7 802 3NA7 804 3NA7 801 3NA7 803 3NA7 805 3NA7 807 3NA7 810 3NA7 812 3NA7 814 3NA7 817 3NA7 820 3NA7 822 3NA7 824 3NA7 830	3NA6 802 3NA6 804 3NA6 801 3NA6 803 3NA6 805 3NA6 807 3NA6 810 3NA6 812 3NA6 814 3NA6 817 3NA6 820 3NA6 822 3NA6 824 3NA6 830	013 013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.135 0.135 0.135 0.136 0.136 0.136 0.136 0.136 0.136 0.136 0.136 0.136 0.136 0.136 0.136	3 units 3 units
		00	30	80 100 125 160	500 V AC/ 250 V DC	3NA7 824-7 3NA7 830-7 3NA7 832 3NA7 836	3NA6 824-7 3NA6 830-7 3NA6 832 3NA6 836	013 013 013 013	0.211 0.211 0.211 0.211	3 units 3 units 3 units 3 units
		1	30	16 20 25 35 40 50 63 80 100 125 160 47.2	500 V AC/ 440 V DC	3NA7 105 3NA7 107 3NA7 110 3NA7 114 3NA7 117 3NA7 120 3NA7 122 3NA7 124 3NA7 130 3NA7 132 3NA7 136 3NA7 140 3NA7 142 3NA7 144	3NA6 105 3NA6 107 3NA6 110 3NA6 114 3NA6 117 3NA6 120 3NA6 122 3NA6 124 3NA6 130 3NA6 132 3NA6 136 3NA6 140 3NA6 142 3NA6 144	013 013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.290 0.440 0.440 0.440	3 units 3 units
		2	47.2	35 50 63 80 100 125 160 200 224 250 57.8	500 V AC/ 440 V DC	3NA7 214 3NA7 220 3NA7 222 3NA7 224 3NA7 230 3NA7 232 3NA7 236 3NA7 240 3NA7 242 3NA7 244 -- 3NA7 252 -- 3NA7 260	3NA6 214 3NA6 220 3NA6 222 3NA6 224 3NA6 230 3NA6 232 3NA6 236 3NA6 240 3NA6 242 3NA6 244 -- 3NA6 250 3NA6 252 3NA6 254 3NA6 260	013 013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.450 0.641 0.660 0.641 0.660	3 units 3 units

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse links gG

Size	Width	I_n	U_n	Non-insulated grip lugs	Insulated grip lugs	PG	Weight 1 unit approx.	PS*/ P. unit		
mm	A	V		Order No.	Price 1 unit	Order No.	Price 1 unit	kg	Unit(s)	
LV HRC fuse links with integrated indicator, operational class gG										
		000	21	2 4 6 10 16 20 25 32 35	690 V AC/ 250 V DC	3NA7 802-6 3NA7 804-6 3NA7 801-6 3NA7 803-6 3NA7 805-6 3NA7 807-6 3NA7 810-6 3NA7 812-6 3NA7 814-6	3NA6 802-6 3NA6 804-6 3NA6 801-6 3NA6 803-6 3NA6 805-6 3NA6 807-6 3NA6 810-6 3NA6 812-6 3NA6 814-6	013 013 013 013 013 013 013 013 013	0.136 0.136 0.136 0.136 0.136 0.136 0.136 0.136 0.136	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units
		00	30	40 50 63 80 100	690 V AC/ 250 V DC	3NA7 817-6 3NA7 820-6 3NA7 822-6 3NA7 824-6 3NA7 830-6	3NA6 817-6 3NA6 820-6 3NA6 822-6 3NA6 824-6 3NA6 830-6	013 013 013 013 013	0.211 0.211 0.211 0.211 0.211	3 units 3 units 3 units 3 units 3 units
		1	30	50 63 80 100 125 160 47.2 200	690 V AC/ 440 V DC	3NA7 120-6 3NA7 122-6 3NA7 124-6 3NA7 130-6 3NA7 132-6 3NA7 136-6 3NA7 140-6	3NA6 120-6 3NA6 122-6 3NA6 124-6 3NA6 130-6 3NA6 132-6 3NA6 136-6 3NA6 140-6	013 013 013 013 013 013 013	0.290 0.290 0.290 0.290 0.290 0.440	3 units 3 units 3 units 3 units 3 units 3 units
		2	47.2	80 100 125 160 200 57.8 224 250 300 315	690 V AC/ 440 V DC	3NA7 224-6 3NA7 230-6 3NA7 232-6 3NA7 236-6 3NA7 240-6 3NA7 242-6 3NA7 244-6 3NA7 250-6 3NA7 252-6	3NA6 224-6 3NA6 230-6 3NA6 232-6 3NA6 236-6 3NA6 240-6 3NA6 242-6 3NA6 244-6 3NA6 250-6 3NA6 252-6	013 013 013 013 013 013 013 013 013	0.450 0.450 0.450 0.450 0.450 0.660 0.660 0.660 0.660	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units

Further versions on request.

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse links gG

Size	Width mm	I_n A	U_n V	Non-insulated grip lugs Order No.	PG	Weight 1 unit approx.	PS*/ P. unit
LV HRC fuse links with front indicator, operational class gG							
000	21	2 4 6 10 16 20 25 32 35 40 50 63 80 100	500 V AC/ 250 V DC	3NA3 802 3NA3 804 3NA3 801 3NA3 803 3NA3 805 3NA3 807 3NA3 810 3NA3 812 3NA3 814 3NA3 817 3NA3 820 3NA3 822 3NA3 824 3NA3 830	013 013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133 0.133	3 units 3 units
00	30	35 50 63 80 100 125 160	500 V AC/ 250 V DC	3NA3 814-7 3NA3 820-7 3NA3 822-7 3NA3 824-7 3NA3 830-7 3NA3 832 3NA3 836	013 013 013 013 013 013 013	0.200 0.200 0.200 0.200 0.200 0.217 0.217	3 units 3 units 3 units 3 units 3 units 3 units 3 units
0	30	6 10 16 20 25 32 35 40 50 63 80 100 125 160	500 V AC/ 440 V DC	3NA3 001 3NA3 003 3NA3 005 3NA3 007 3NA3 010 3NA3 012 3NA3 014 3NA3 017 3NA3 020 3NA3 022 3NA3 024 3NA3 030 3NA3 032 3NA3 036	013 013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340 0.340	3 units 3 units
1	30	16 20 25 35 40 50 63 80 100 125 160	500 V AC/ 440 V DC	3NA3 105 3NA3 107 3NA3 110 3NA3 114 3NA3 117 3NA3 120 3NA3 122 3NA3 124 3NA3 130 3NA3 132 3NA3 136 3NA3 140 3NA3 142 3NA3 144	013 013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.290 0.290 0.290 0.300 0.300 0.300 0.300 0.300 0.300 0.300 0.300 0.300 0.300 0.300 0.300	3 units 3 units
	47.2	200 224 250					

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse links gG

Size	Width mm	I_n A	U_n V	Non-insulated grip lugs Order No.	PG	Weight 1 unit approx.	PS*/ P. unit
				Price 1 unit		kg	Unit(s)
LV HRC fuse links with front indicator, operational class gG							
2	47.2	35 50 63 80 100 125 160 200 224 250 300 315 355 400	500 V AC/ 440 V DC	3NA3 214 3NA3 220 3NA3 222 3NA3 224 3NA3 230 3NA3 232 3NA3 236 3NA3 240 3NA3 242 3NA3 244 3NA3 250 3NA3 252 3NA3 254 3NA3 260	013 013 013 013 013 013 013 013 013 013 013 013 013 013 013 013 013 013 013 013 013	0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.453 0.647 0.647 0.647 0.647 0.647	3 units 3 units 3 units 3 units 3 units 3 units
3	57.8	200 224 250 300 315 355 400	500 V AC/ 440 V DC	3NA3 340 3NA3 342 3NA3 344 3NA3 350 3NA3 352 3NA3 354 3NA3 360 3NA3 362 3NA3 365 3NA3 372	013 013 013 013 013 013 013 013 013 013 013 013	0.647 0.640 0.647 0.647 0.647 0.647 0.647 0.647 0.647 1.000 1.000 1.000	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units
4 (IEC design)	71.2	425 500 630	500 V AC/ 440 V DC	3NA3 472 3NA3 475 3NA3 480 3NA3 482	013 013 013 013	2.500 2.500 2.500 2.500	1 unit 1 unit 1 unit 1 unit
4a	101.8	630 800 1000 1250	500 V AC/ 440 V DC	3NA3 665 3NA3 672 3NA3 675 3NA3 680 3NA3 682	013 013 013 013 013	2.700 2.700 2.700 2.840 2.840	1 unit 1 unit 1 unit 1 unit 1 unit

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse links gG

Size	Width mm	I_n A	U_n V	Non-insulated grip lugs Order No.	PG	Weight 1 unit approx.	PS*/ P. unit
				Price 1 unit		kg	Unit(s)
LV HRC fuse links with front indicator, operational class gG							
				The 300 A and 425 A fuse links do not have VDE marking. They comply with the standard but are not allowed to bear the test mark.			
000	21	2 4 6 10 16 20 25 32 35	690 V AC/ 250 V DC	3NA3 802-6 3NA3 804-6 3NA3 801-6 3NA3 803-6 3NA3 805-6 3NA3 807-6 3NA3 810-6 3NA3 812-6 3NA3 814-6	013 013 013 013 013 013 013 013 013	0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135 0.135	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units
00	30	40 50 63 80 100	690 V AC/ 250 V DC	3NA3 817-6 3NA3 820-6 3NA3 822-6 3NA3 824-6 3NA3 830-6	013 013 013 013 013	0.200 0.200 0.200 0.200 0.200	3 units 3 units 3 units 3 units 3 units
1	30	50 63 80 100 125 160	690 V AC/ 440 V DC	3NA3 120-6 3NA3 122-6 3NA3 124-6 3NA3 130-6 3NA3 132-6 3NA3 136-6 3NA3 140-6	013 013 013 013 013 013	0.290 0.290 0.290 0.290 0.290 0.426	3 units 3 units 3 units 3 units 3 units 3 units
2	47.2	80 100 125 160 200 224 250 300 315	690 V AC/ 440 V DC	3NA3 224-6 3NA3 230-6 3NA3 232-6 3NA3 236-6 3NA3 240-6 3NA3 242-6 3NA3 244-6 3NA3 250-6 3NA3 252-6	013 013 013 013 013 013 013 013 013	0.426 0.426 0.426 0.426 0.426 0.660 0.680 0.660 0.680	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units
3	57.8	250 315 71.2 355 400 425 500	690 V AC/ 440 V DC	3NA3 344-6 3NA3 352-6 3NA3 354-6 3NA3 360-6 3NA3 362-6 3NA3 365-6	013 013 013 013 013 013	0.660 0.660 1.000 1.000 1.000 1.000	3 units 3 units 3 units 3 units 3 units 3 units

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse bases

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Selection and ordering data

Size	I_n	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
LV HRC fuse bases							
	000/00	160	1-pole With flat connectors, screw With plug-in connectors With saddle-type connectors	3NH3 030 3NH3 031 3NH3 032	014 014 014	0.235 0.230 0.266	3 units 3 units 3 units
		160	With flat connectors and terminal strip With flat connectors, nut With flat and saddle-type connector	3NH3 035 3NH3 038 3NH3 050	014 014 014	0.230 0.207 0.227	3 units 3 units 3 units
		160	Molded plastic, for standard rail mounting and screw fixing With flat connectors, screw With saddle-type connectors	3NH3 051 3NH3 052	014 014	0.160 0.190	1 unit 1 unit
		125	With box terminal, up to 50 mm ²	3NH3 053	014	0.155	1 unit
		160	3-pole, with phase barriers With flat connectors With plug-in connectors With saddle-type connectors	3NH4 030 3NH4 031 3NH4 032 3NH4 035	014 014 014 014	0.700 0.800 0.800 0.750	1 unit 1 unit 1 unit 1 unit
	0	160	1-pole With flat connectors With plug-in connectors	3NH3 120 3NH3 122	014 014	0.460 0.460	3 units 3 units
	1	250	1-pole With flat connectors With twin busbar connectors	3NH3 230 3NH3 220	014 014	0.789 0.789	3 units 3 units
		250	3-pole With flat connectors	3NH4 230	014	2.100	1 unit
	2	400	1-pole With flat connectors With twin busbar connectors	3NH3 330 3NH3 320	014 014	0.843 1.000	1 unit 1 unit
	3	630	1-pole With flat connectors With twin busbar connectors	3NH3 430 3NH3 420	014 014	1.100 1.100	1 unit 1 unit
	4 (IEC design)	1250	1-pole With flat connectors	3NH3 530	014	3.000	1 unit

* You can order this quantity or a multiple thereof.

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Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse bases

Size	I_n	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
LV HRC bus-mounting bases for busbars							
For busbars 12 mm x 5 mm to 12 mm x 10 mm Busbar clearance 40 mm							
000/00	160	1-pole With quick-connect terminal at top at bottom Terminal strip at top	3NH3 036 3NH3 037 3NH3 048	014 014 014	0.150 0.150 0.150	1 unit 1 unit 1 unit	
							
000/00	80	3-pole, tandem design 3 outgoing feeders each at top and bottom with saddle-type connector With 4 phase barriers With 2 non-interrupted barriers	3NH4 037 3NH4 045	014 014	0.800 0.800	1 unit 1 unit	
							
LV HRC fuse bases with slewing equipment							
Degree of pollution 3 Degree of protection: open IP10, closed IP20 1-pole, with flat connector							
000/00	160	Supplied with additional saddle-type connectors With screw fixing for mounting plate With claw fixing for non-perforated busbar With screw fixing for perforated busbar	3NH7 030 3NH7 031 3NH7 032	014 014 014	1.000 1.000 1.000	1 unit 1 unit 1 unit	
							
1	250	With screw fixing for mounting plate With claw fixing for non-perforated busbar With screw fixing for perforated busbar	3NH7 230 3NH7 231 3NH7 232	014 014 014	2.500 2.500 2.500	1 unit 1 unit 1 unit	
							
2/3	400 and 630	With screw fixing for mounting plate With claw fixing for non-perforated busbar With screw fixing for perforated busbar can be used as disconnector	3NH7 330 3NH7 331 3NH7 332	014 014 014	4.800 4.800 4.800	1 unit 1 unit 1 unit	
							
4a	1250	With screw fixing for mounting plate	3NH7 520	014	5.200	1 unit	
							

* You can order this quantity or a multiple thereof.

Fuses and Fuse Systems

LV HRC Fuse Systems

LV HRC fuse bases

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	Size	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)	
Mounting parts for LV HRC fuse bases							
LV HRC contact covers 	Touch protection for contact pieces	000/00 0 1 2 3	3NX3 105 3NX3 114 3NX3 106 3NX3 107 3NX3 108	014 014 014 014 014	0.013 0.010 0.027 0.031 0.038	2 units 2 units 2 units 2 units 2 units	
LV HRC barriers 	For side-by-side mounting of LV HRC fuse bases and as end barrier for side-by-side arrangement	Type 3NH3 0/3NH4 0 3NH3 1 3NH3 2 3NH3 3 3NH3 4	000/00 0 1 2 3	3NX2 023 3NX2 030 3NX2 024 3NX2 025 3NX2 026	014 014 014 014 014	0.025 0.050 0.053 0.066 0.101	2 units 2 units 2 units 2 units 2 units
LV HRC protective covers IP2X 	For LV HRC fuse bases, size 000/00 1-pole and 3-pole		3NX3 115	014	0.039	1 unit	
LV HRC covers IP2X 	For LV HRC protective cover IP2X		3NX3 116	014	0.014	1 unit	
Mounting parts for LV HRC bus-mounting bases							
LV HRC contact covers 	For mounting onto contacts to ensure touch protection	Outgoing terminal Incoming terminal	3NX3 105 3NX3 113	014 014	0.013 0.006	2 units 2 units	
LV HRC barriers 	For 3NH3 0 LV HRC rail mounting fuse bases Phase barrier		3NX2 027	014	0.017	2 units	
	End barrier		3NX2 028	014	0.020	2 units	
	For 3NH4 0 LV HRC rail-mounting fuse base in tandem design Non-interrupted phase barrier		3NX2 031	014	0.050	2 units	

* You can order this quantity or a multiple thereof.

Selection and ordering data

	Size	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit	Unit(s)
Mounting parts for LV HRC fuse links							
	000 to 4	3NX1 013	014	0.280	1 unit		
For LV HRC fuse links Without sleeve							
		3NX1 014	014	0.480	1 unit		
With sleeve							
Isolating links							
	000/00 0	3NG1 002 3NG1 102	014 014	0.080 0.110	1 unit 1 unit		
For LV HRC fuse bases and fuse switch disconnectors With insulated grip lugs							
	1	3NG1 202	014	0.170	1 unit		
Silver-plated							
	2	3NG1 302	014	0.240	1 unit		
With non-insulated grip lugs							
	3	3NG1 402	014	0.290	1 unit		
Tin-plated							
	4	3NG1 503	014	0.708	1 unit		
Nickel-plated							
	4a	3NG1 505	014	0.730	1 unit		
Fuse-base covers							
	000/00 1, 2, 3	3NX1 003 3NX1 004	014 014	0.050 0.100	3 units 3 units		
For LV HRC fuse bases According to DIN 43620 Red with yellow information label "Power Supply Isolating Point"							
For LV HRC fuse switch disconnectors, see Switching and Protection Devices, Switch Disconnectors.							
	Size	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit	Unit(s)
	000 to 4	3NX1 021	014	0.036	1 unit		
LV HRC signal detectors							
For LV HRC fuse links with non-insulated grip lugs							
• Rated voltage up to 690 V AC/600 V DC							
• Contact: microswitch 250 V AC, 6 A							
• Connection: flat connector 2.3 mm ... 0.5 mm							
							
	000 to 4	3NX1 022 3NX1 023	014 014	0.015 0.015	1 unit 1 unit		
Signal detector links							
• Rated voltage up to 690 V AC/600 V DC							
Response value > 9 V, 2.5 A; for standard applications							
Response value > 2 V, 7 A; only for meshed systems							
	000 to 2	3NX1 024	014	0.010	1 unit		
Signal detector attachments							
For LV HRC fuse links with non-insulated or insulated grip lugs							
• Rated voltage up to 690 V AC/600 V DC							
• Contact: microswitch 230 V AC, 5 A, 1 CO contact							
• Connection: flat connector 2.3 mm							
							

* You can order this quantity or a multiple thereof.

Fuses and Fuse Systems

Cylindrical Fuse Systems

Cylindrical fuse links gG

Selection and ordering data

Size mm x mm	I_n A	U_n V AC	Operational class gG Order No.	PG	Weight 1 unit approx.	PS*/ P. unit
Cylindrical fuse links						
8 x 32	2 4 6 10 16 20	400	3NW6 302-1 3NW6 304-1 3NW6 301-1 3NW6 303-1 3NW6 305-1 3NW6 307-1	018	0.004	10 units
10 x 38	2 4 6 8 10 12 16 20 25 32	500	3NW6 002-1 3NW6 004-1 3NW6 001-1 3NW6 008-1 3NW6 003-1 3NW6 006-1 3NW6 005-1 3NW6 007-1 3NW6 010-1 3NW6 012-1	018	0.008	10 units
14 x 51	4 6 8 10 12 16 20 25 32 40 50	500	3NW6 104-1 3NW6 101-1 3NW6 108-1 3NW6 103-1 3NW6 106-1 3NW6 105-1 3NW6 107-1 3NW6 110-1 3NW6 112-1 3NW6 117-1 3NW6 120-1	018	0.019	10 units
22 x 58	8 10 12 16 20 25 32 40 50 63 80 100	500 400	3NW6 208-1 3NW6 203-1 3NW6 206-1 3NW6 205-1 3NW6 207-1 3NW6 210-1 3NW6 212-1 3NW6 217-1 3NW6 220-1 3NW6 222-1 3NW6 224-1 3NW6 230-1	018	0.051	10 units

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Selection and ordering data

I_n A	For fuse link size mm x mm	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Withdrawable-unit design							
Without signal detector							
							
1-pole							
	20	8 x 32	1	3NW7 313	018	0.056	1 unit
	32	10 x 38	1	3NW7 013	018	0.056	1 unit
	50	14 x 51	1.5	3NW7 111	018	0.095	1 unit
	100	22 x 58	2	3NW7 211	018	0.145	1 unit
1-pole + N							
	... 20	8 x 32	1	3NW7 353	018	0.069	1 unit
	... 32	10 x 38	1	3NW7 053	018	0.069	1 unit
	... 50	14 x 51	3	3NW7 151	018	0.215	1 unit
	... 100	22 x 58	4	3NW7 251	018	0.330	1 unit
2-pole							
	20	8 x 32	2	3NW7 323	018	0.118	1 unit
	32	10 x 38	2	3NW7 023	018	0.118	1 unit
	50	14 x 51	3	3NW7 121	018	0.195	1 unit
	100	22 x 58	4	3NW7 221	018	0.300	1 unit
3-pole							
	20	8 x 32	3	3NW7 333	018	0.172	1 unit
	32	10 x 38	3	3NW7 033	018	0.172	1 unit
	50	14 x 51	4.5	3NW7 131	018	0.295	1 unit
	100	22 x 58	6	3NW7 231	018	0.691	1 unit
3-pole + N							
	20	8 x 32	3	3NW7 363	018	0.185	1 unit
	32	10 x 38	3	3NW7 063	018	0.185	1 unit
	50	14 x 51	6	3NW7 161	018	0.315	1 unit
	100	22 x 58	8	3NW7 261	018	0.475	1 unit
							
With signal detector							
							
1-pole							
	20	8 x 32	1	3NW7 312	018	0.058	1 unit
	32	10 x 38	1	3NW7 012	018	0.080	1 unit
	50	14 x 51	1.5	3NW7 112	018	0.095	1 unit
	100	22 x 58	2	3NW7 212	018	0.145	1 unit
1-pole + N							
	20	8 x 32	2	3NW7 352	018	0.120	1 unit
	32	10 x 38	2	3NW7 052	018	0.167	1 unit
	50	14 x 51	3	3NW7 152	018	0.215	1 unit
	100	22 x 58	4	3NW7 252	018	0.330	1 unit
2-pole							
	20	8 x 32	2	3NW7 322	018	0.112	1 unit
	32	10 x 38	2	3NW7 022	018	0.162	1 unit
	50	14 x 51	3	3NW7 122	018	0.195	1 unit
	100	22 x 58	4	3NW7 222	018	0.300	1 unit
3-pole							
	20	8 x 32	3	3NW7 332	018	0.167	1 unit
	32	10 x 38	3	3NW7 032	018	0.243	1 unit
	50	14 x 51	4.5	3NW7 132	018	0.295	1 unit
	100	22 x 58	6	3NW7 232	018	0.480	1 unit
3-pole + N							
	20	8 x 32	4	3NW7 362	018	0.227	1 unit
	32	10 x 38	4	3NW7 062	018	0.327	1 unit
	50	14 x 51	6	3NW7 162	018	0.315	1 unit
	100	22 x 58	8	3NW7 262	018	0.475	1 unit
							
Auxiliary switches							
							
For indicating disconnection of the fuse link							
Solely for application of Striker fuse links							
(not currently available in the Siemens manufacturing program).							
For retrofitting with factory-fitted brackets, 0.5 MW.							
Contact: 250 V AC, 5 A							
Minimum contact load: 12 V, 25 mA							
For fuse bases	14 x 51						
For fuse bases	22 x 58						
		0.5					
			3NW7 901	018	0.050	1 unit	
			3NW7 902	018	0.050	1 unit	

* You can order this quantity or a multiple thereof.

Fuses and Fuse Systems

Cylindrical Fuse Systems

Bases for cylindrical fuses

Size mm	Length approx. mm	Conductor cross-section mm ²	Load rating up to A	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Busbars with pins, insulated									
The load capacity values are valid for centered infeed. Degree of pollution 2									
Busbars, 1-phase									
	8 x 32 and 10 x 38	220 1000	16 16	120 120	Fully insulated	5ST3 700 5ST3 701 5SH5 324	027 027 016	0.040 0.190 0.320	1 unit 1 unit 1 unit
Busbars, 2-phase									
	8 x 32 and 10 x 38	220 1000	16 16	120 120	Fully insulated	5ST3 704 5ST3 705	027 027	0.060 0.290	1 unit 1 unit
Busbars, 3-phase									
	8 x 32 and 10 x 38 14 x 51	220 1000 1000	16 16 16	120 120 120		5ST3 708 5ST3 710 5SH5 323	027 027 016	0.100 0.430 0.843	1 unit 1 unit 1 unit
End caps for busbars									
1-phase									
						5ST3 748	027	0.001	1 unit
2-phase and 3-phase									
						5ST3 750	027	0.001	1 unit

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Selection and ordering data

Size	I_n A	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Rated voltage 500 V AC							
With bolt-on links Mounting dimensions: 110 mm							
3¹⁾	150 200 250 300 350 400	gR gR gR gR aR aR	3NC2 423-3 3NC2 425-3 3NC2 427-3 3NC2 428-3 3NC2 431-3 3NC2 432-3	047 047 047 047 047 047	1.063 1.057 1.066 1.078 1.056 1.062	3 units 3 units 3 units 3 units 3 units 3 units	
Special design with 2 oblong slots							
3	150 200 250 300 350 400	gR gR gR gR aR aR	3NC2 423 3NC2 425 3NC2 427 3NC2 428 3NC2 431 3NC2 432	047 047 047 047 047 047	1.055 1.070 1.056 1.056 1.061 1.056	3 units 3 units 3 units 3 units 3 units 1 unit	
Rated voltage 690 V AC/700 V DC							
With bolt-on links Mounting dimensions: 80 mm							
000	20 25 32 40 50 63 80 100 125 160 200 250 315	gR gR gR gR gR aR aR aR aR aR aR aR aR	3NE8 714-1 3NE8 715-1 3NE8 701-1 3NE8 702-1 3NE8 717-1 3NE8 718-1 3NE8 720-1 3NE8 721-1 3NE8 722-1 3NE8 724-1 3NE8 725-1 3NE8 727-1 3NE8 731-1	047 047 047 047 047 047 047 047 047 047 047 047 047	0.130 0.130 0.131 0.131 0.132 0.132 0.131 0.130 0.131 0.132 0.130 0.133 0.134	10 units 10 units	
Rated voltage 660 V AC							
With bolt-on links Mounting dimensions: 110 mm							
3	150 200 250 350 500 1000	gR gR gR gR gR aR	3NC8 423-3 3NC8 425-3 3NC8 427-3 3NC8 431-3 3NC8 434-3 3NC8 444-3	047 047 047 047 047 047	1.062 1.063 1.069 1.072 1.069 1.085	3 units 3 units 3 units 3 units 3 units 3 units	
Special design with 2 oblong slots							
3¹⁾	150 200 250 350 500	gR gR gR gR gR	3NC8 423 3NC8 425 3NC8 427 3NC8 431 3NC8 434	047 047 047 047 047	1.044 1.060 1.074 1.065 1.095	3 units 3 units 3 units 3 units 3 units	

1) Cladding dimensions and grip lugs according to IEC 60269-2-1;
 but blade slotted according to IEC 60269-4-1.

Fuses and Fuse Systems

SITOR 3NE, 3NC Semiconductor Fuses

SITOR LV HRC fuse links

Size	I_n	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
	A					kg	Unit(s)
Rated voltage 690 V AC							
For mounting in LV HRC fuse bases							
000	16 20 25 35 40 50 63 80	gR/gS gR/gS gR/gS gR/gS gR/gS gR/gS gR/gS gR/gS	3NE1 813-0 3NE1 814-0 3NE1 815-0 3NE1 803-0 3NE1 802-0 3NE1 817-0 3NE1 818-0 3NE1 820-0	047 047 047 047 047 047 047 047	0.127 0.128 0.127 0.128 0.127 0.128 0.128 0.129	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units	
00	100 125	gR/gS gR/gS	3NE1 021-0 3NE1 022-0	047 047	0.202 0.202	3 units 3 units	
1	160 200 250 315	gR/gS gR/gS gR/gS gR/gS	3NE1 224-0 3NE1 225-0 3NE1 227-0 3NE1 230-0	047 047 047 047	0.580 0.582 0.580 0.581	3 units 3 units 3 units 3 units	
2	350 400 450 500	gR/gS gR/gS gR/gS gR/gS	3NE1 331-0 3NE1 332-0 3NE1 333-0 3NE1 334-0	047 047 047 047	0.766 0.743 0.760 0.766	3 units 3 units 3 units 3 units	
3	560 630 710 800	gR/gS gR/gS gR/gS gR/gS	3NE1 435-0 3NE1 436-0 3NE1 437-0 3NE1 438-0	047 047 047 047	1.111 1.114 1.117 1.124	3 units 3 units 3 units 3 units	
Rated voltage 600 V AC							
For mounting in LV HRC fuse bases							
3	710 800	gR gR	3NE1 437-1 3NE1 438-1	047 047	1.120 1.113	3 units 3 units	

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SITOR LV HRC fuse links

Size	I_n A	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Rated voltage 690 V AC							
For mounting in LV HRC fuse bases							
00	80 100 125	gR	3NE1 020-2 3NE1 021-2 3NE1 022-2	047 047 047	0.203 0.203 0.203	1 unit 1 unit 3 units	
							
1	160 200 250 315	gR	3NE1 224-2 3NE1 225-2 3NE1 227-2 3NE1 230-2	047 047 047 047	0.613 0.612 0.626 0.615	3 units 3 units 3 units 3 units	
							
2	350 450 500	gR	3NE1 331-2 3NE1 333-2 3NE1 334-2	047 047 047	0.754 0.768 0.768	3 units 3 units 3 units	
							
3	560 630 670 710 800 850	gR	3NE1 435-2 3NE1 436-2 3NE1 447-2 3NE1 437-2 3NE1 438-2 3NE1 448-2	047 047 047 047 047 047	1.149 1.179 1.170 1.153 1.184 1.207	3 units 3 units 3 units 3 units 3 units 3 units	
							
00	25 35 50 63 80 100 125 160	gR gR gR gR aR aR aR aR	3NE8 015-1 3NE8 003-1 3NE8 017-1 3NE8 018-1 3NE8 020-1 3NE8 021-1 3NE8 022-1 3NE8 024-1	047 047 047 047 047 047 047 047	0.205 0.204 0.203 0.205 0.203 0.205 0.213 0.207	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units	
							
Rated voltage 800 V AC							
With bolt-on links							
Mounting dimensions: 110 mm							
21	250 315 450 500 710	aR	3NE4 327-0B 3NE4 330-0B 3NE4 333-0B 3NE4 334-0B 3NE4 337	047 047 047 047 047	0.753 0.760 0.760 0.754 0.771	3 units 3 units 3 units 3 units 3 units	
							

1) Cladding dimensions and grip lugs according to IEC 60269-2-1;
 but blade slotted according to IEC 60269-4-1.

Fuses and Fuse Systems

SITOR 3NE, 3NC Semiconductor Fuses

SITOR LV HRC fuse links

Size	I_n	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
	A					kg	Unit(s)
Rated voltage 1000 V AC							
For mounting in LV HRC fuse bases							
0	32 40 50 63 80 100 125 160	gR aR	3NE4 101 3NE4 102 3NE4 117 3NE4 118 3NE4 120 3NE4 121 3NE4 122 3NE4 124	047 047 047 047 047 047 047 047 047 047 047	0.278 0.277 0.276 0.279 0.276 0.278 0.279 0.279	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units	
With bolt-on links Mounting dimensions: 110 mm							
1¹⁾	100 125 160 200 250 315 350 400 450 400 450 500 560 630 710 ²⁾ 800 ³⁾ 900 ⁴⁾	aR	3NE3 221 3NE3 222 3NE3 224 3NE3 225 3NE3 227 3NE3 230-0B 3NE3 231 3NE3 232-0B 3NE3 233 3NE3 332-0B 3NE3 333 3NE3 334-0B 3NE3 335 3NE3 336 3NE3 337-8 3NE3 338-8 3NE3 340-8	047 047 047 047 047 047 047 047 047 047 047 047 047 047 047 047 047 047 047 047 047	0.580 0.568 0.573 0.570 0.580 0.585 0.590 0.576 0.720 0.759 0.748 0.753 0.756 0.760 0.753 0.762 0.764 0.753	3 units 3 units 3 units 3 units 3 units 3 units	
2¹⁾	400 450 500 560 630 710 ²⁾ 800 ³⁾ 900 ⁴⁾	aR	3NE3 332-0B 3NE3 333 3NE3 334-0B 3NE3 335 3NE3 336 3NE3 337-8 3NE3 338-8 3NE3 340-8	047 047 047 047 047 047 047 047 047	0.756 0.760 0.753 0.756 0.760 0.753 0.762 0.764 0.753	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units	
Mounting dimensions: 130 mm							
3	100 224 315 400 450 450 ⁵⁾ 500 630 710	aR	3NE3 421 3NE3 626 3NE3 430 3NE3 432 3NE3 635 3NE3 635-6 3NE3 434 3NE3 636 3NE3 637	047 047 047 047 047 047 047 047 047	1.200 1.300 1.241 1.247 1.179 1.184 1.490 1.213 1.190	3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units 3 units	
Mounting dimensions: 140 mm, M12 screw connection							
3	710	aR	3NE3 637-1	047	1.246	3 units	
Rated voltage 1500 V AC							
With bolt-on links							
Mounting dimensions: 210 mm							
3	160 224 315 350 450 450 ⁶⁾ 250 450 600	aR	3NE5 424 3NE5 426 3NE5 430 3NE5 431 3NE5 433 3NE5 433-1 3NE5 627 3NE5 633 3NE5 643	047 047 047 047 047 047 047 047 047	1.900 1.968 2.000 1.959 2.100 1.961 1.562 1.585 1.587	2 units 2 units 2 units 2 units 2 units 2 units 3 units 3 units 3 units	

1) Cladding dimensions and grip lugs according to IEC 60269-2-1; but blade slotted according to IEC 60269-4-1.

2) Rated voltage 900 V AC.

3) Rated voltage 800 V AC.

4) Rated voltage 690 V AC.

5) Design corresponds to 3NE6 4.. and 3NE9 4...

6) M12 screw connection.

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Fuses and Fuse Systems

SITOR 3NE, 3NC Semiconductor Fuses

SITOR LV HRC fuse links

Size	I_n	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
	A				kg	Unit(s)	
Rated voltage 2000 V AC							
With bolt-on links Mounting dimensions: 210 mm							
3	200 250 350 400 450 450 ¹⁾ 525 ¹⁾ 630 630 ¹⁾ 710 ¹⁾	aR	3NE7 425 3NE7 427 3NE7 431 3NE7 432 3NE7 633 3NE7 633-1 3NE7 648-1 3NE7 636 3NE7 636-1 3NE7 637-1	047 047 047 047 047 047 047 047 047 047	2.100 1.970 1.980 1.973 1.968 1.983 1.975 1.997 2.024 1.997	2 units 2 units 2 units 2 units 2 units 2 units 2 units 2 units 2 units 2 units	
Rated voltage 2500 V AC							
With bolt-on links Mounting dimensions: 260 mm							
3	400 ¹⁾ 500 ¹⁾ 630 ¹⁾	aR	3NE9 632-1 3NE9 634-1 3NE9 636-1A	047 047 047	2.542 2.550 2.557	1 unit 1 unit 1 unit	



1) M12 screw connection.

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Fuses and Fuse Systems

SITOR 3NE, 3NC Semiconductor Fuses

SITOR cylindrical fuse links

Selection and ordering data

Size mm x mm	I_h A	U_h V AC/V DC	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
					kg	Unit(s)		
Cylindrical fuse links								
10 x 38	3 6 8 10 12 16 20 25 32	600/-	aR	3NC1 003 3NC1 006 3NC1 008 3NC1 010 3NC1 012 3NC1 016 3NC1 020 3NC1 025 3NC1 032	047 047 047 047 047 047 047 047 047	0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009 0.009	10 units 10 units 10 units 10 units 10 units 10 units 10 units 10 units 10 units	
14 x 51	1 2 3 4 5 6 10 15 20 25 30 32 40 50	660/700 690/700	aR	3NC1 401 3NC1 402 3NC1 403 3NC1 404 3NC1 405 3NC1 406 3NC1 410 3NC1 415 3NC1 420 3NC1 425 3NC1 430 3NC1 432 3NC1 440 3NC1 450	047 047 047 047 047 047 047 047 047 047 047 047 047 047	0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.021 0.021	10 units 10 units	
22 x 58	20 25 32 40 50 63 80 100	690/700 600/700	aR	3NC2 220 3NC2 225 3NC2 232 3NC2 240 3NC2 250 3NC2 263 3NC2 280 3NC2 200	047 047 047 047 047 047 047 047	0.056 0.056 0.056 0.056 0.056 0.056 0.057 0.057	5 units 5 units 5 units 5 units 5 units 5 units 5 units 5 units	
Cylindrical fuse links with hammer								
14 x 51	10 15 20 25 30 32 40 50	690/700	aR	3NC1 410-5 3NC1 415-5 3NC1 420-5 3NC1 425-5 3NC1 430-5 3NC1 432-5 3NC1 440-5 3NC1 450-5	047 047 047 047 047 047 047 047	0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020	10 units 10 units 10 units 10 units 10 units 10 units 10 units 10 units	
22 x 58	20 25 32 40 50 63 80 100	690/700 600/700	aR	3NC2 220-5 3NC2 225-5 3NC2 232-5 3NC2 240-5 3NC2 250-5 3NC2 263-5 3NC2 280-5 3NC2 200-5	047 047 047 047 047 047 047 047	0.056 0.056 0.056 0.056 0.056 0.056 0.057 0.057	10 units 10 units 10 units 10 units 10 units 10 units 10 units 10 units	

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Accessories

	Size	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
				kg	Unit(s)		
Fuse tongs			3NC1 000	047	0.069	1 unit	
	10 x 38, 14 x 51, 22 x 58						
Cylindrical fuse switch disconnectors			3NC1 091 3NC1 092 3NC1 093 3NC1 491 3NC1 492 3NC1 493	047 047 047 047 047 047	0.065 0.131 0.197 0.125 0.233 0.350	12 units 6 units 4 units 6 units 3 units 2 units	
Cylindrical fuse disconnectors			3NC2 291 3NC2 292 3NC2 293	047 047 047	0.193 0.381 0.584	6 units 3 units 2 units	
Cylindrical fuse switch disconnectors with alarm switch			3NC1 491-5	047	0.125	6 units	
For fuse links with hammer							
14 x 51		1-pole					
Cylindrical fuse disconnectors with alarm switch			3NC2 291-5	047	0.193	6 units	
For fuse links with hammer							
22 x 58		1-pole					
Cylindrical fuse bases			3NC1 038-1 3NC1 038-2 3NC1 038-3 3NC1 451-1 3NC2 258-1	047 047 047 047 047	0.042 0.077 0.113 0.120 0.238	10 units 8 units 6 units 3 units 3 units	
Cylindrical fuse clips			3NC1 038 3NC1 451	047 047	0.002 0.005	20 units 20 units	
For fuses 10 x 38							
For fuses 14 x 51							

1) The cylindrical fuse bases can be modularly expanded to make multi-pole bases.

	Size	Length approx.	Conductor cross-section	Load rating up to	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
		mm	mm ²	A			kg	Unit(s)		
Busbars										
The load capacity values are valid for centered infeed.										
Pins, insulated Degree of pollution 2										
Busbars, 1-phase										
	8 x 32 and 10 x 38 14 x 51	220 1000 1000	16 16 16	120 120 120	Fully insulated	5ST3 700 5ST3 701 5SH5 324	027 027 016	0.040 0.190 0.320	1 unit 1 unit 1 unit	
Busbars, 2-phase										
8 x 32 and 10 x 38	220 1000	16	120	120	Fully insulated	5ST3 704 5ST3 705	027 027	0.060 0.290	1 unit 1 unit	
Busbars, 3-phase										
8 x 32 and 10 x 38 14 x 51	220 1000 1000	16 16 16	120 120 120	120		5ST3 708 5ST3 710 5SH5 323	027 027 016	0.100 0.430 0.843	1 unit 1 unit 1 unit	
End caps for busbars										
1-phase 2-phase and 3-phase						5ST3 748 5ST3 750	027 027	0.001 0.001	1 unit 1 unit	

Fuses and Fuse Systems

SITOR Fuse Links for Special Applications

For rectifiers in electrolysis systems,
SITOR thyristor sets, railway supply rectifiers

Selection and ordering data

	I_h A	U_n V AC	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
For rectifiers in electrolysis systems								
For screwing onto water-cooled busbars								
	350	800	aR	3NC5 531	047	0.671	1 unit	
	600	1000		3NC5 840	047	1.408	3 units	
	630	800		3NC5 841	047	1.185	3 units	
	800	1000		3NC5 838	047	1.196	3 units	
	710	900		3NE6 437-7	047	1.168	3 units	
	1250	600		3NE9 450-7	047	1.245	3 units	
For air-cooled rectifiers in electrolysis systems								
	710	800	gR	3NE6 437	047	1.093	3 units	
	850	1000		3NE9 440-6	047	1.082	3 units	
	900	1000	aR	3NE6 444	047	1.175	3 units	
	1250	800		3NE9 450	047	1.114	3 units	
	I_h A	U_n V AC	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
For SITOR 6QG10 thyristor sets								
	200	1000	aR	3NE3 525-5	047	0.744	3 units	
	450			3NE3 535-5	047	0.746	3 units	
For SITOR 6QG11 thyristor sets								
	50	1000	gR	3NE4 117-5	047	0.303	1 unit	
	100		aR	3NE4 121-5	047	0.309	1 unit	
	170	800		3NE4 146-5	047	0.311	1 unit	
For SITOR 6QG12 thyristor sets								
	250	800	aR	3NE4 327-6B	047	0.692	3 units	
	315			3NE4 330-6B	047	0.688	3 units	
	450			3NE4 333-6B	047	0.690	3 units	
	500			3NE4 334-6B	047	0.688	3 units	
	710			3NE4 337-6	047	0.689	3 units	
	I_h A	U_n V AC	Operational class	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
For railway supply rectifiers								
	250	680	aR	3NC7 327-2	047	0.725	3 units	
	350			3NC7 331-2	047	0.740	3 units	
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Fuses and Fuse Systems

SILIZED 5SD, 5SE Semiconductor Fuses

Fuse links

Overview

SILIZED NEOZED fuse links



- Rated voltage U_n 400 V AC, 250 V DC
- Rated current I_n 10 ... 63 A
- Sizes D01 and D02
- Operational class gR

SILIZED DIAZED fuse links



- Rated voltage U_n 500 V AC, 500 V DC
- Rated current I_n 16 ... 100 A
- Operational class gR
- Characteristic super quick

Selection and ordering data

Size	I_n	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
	A			kg	Unit(s)	
Rated voltage 400 V AC/250 V DC, operational class gR						
Consumer packing, package of 10						
D01	10	5SE1 310	016	0.006	10 units	
	16	5SE1 316	016	0.007	10 units	
D02	20	5SE1 320	016	0.012	10 units	
	25	5SE1 325	016	0.012	10 units	
	35	5SE1 335	016	0.012	10 units	
	50	5SE1 350	016	0.013	10 units	
	63	5SE1 363	016	0.014	10 units	
Size	I_n	Identification color	Thread	Order No.	Price 1 unit	PG
	A					kg

Rated voltage 500 V AC/500 V DC

DIN VDE 0636-301

For semiconductor protection, designation, yellow ring
operational class gR, characteristic super quick.
For 30 A fuse links the DIAZED screw adapter DII for 25 A is used



DII	16	Gray	E27	5SD4 20	016	0.028	5 units
	20	Blue		5SD4 30	016	0.029	5 units
	25	Yellow		5SD4 40	016	0.031	5 units
DIII	30			5SD4 80	016	0.031	5 units
	35	Black	E33	5SD4 50	016	0.050	5 units
	50	White		5SD4 60	016	0.051	5 units
	63	Copper		5SD4 70	016	0.054	5 units
DIV	80	Silver	R1¼"	5SD5 10	016	0.110	3 units
	100	Red		5SD5 20	016	0.110	3 units

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* You can order this quantity or a multiple thereof.

Fuses and Fuse Systems

3ND, 3NW Fuse Links for Motor Circuits

LV HRC fuse links aM

Selection and ordering data

Size	Width mm	I_n A	U_n V	Non-insulated grip lugs Order No.	PG	Weight 1 unit approx.	PS*/ P. unit	
LV HRC fuse links with front indicator, operational class aM								
	000	21	6 10 16 20 25 32 35 40 50 63 80	500 V AC	3ND1 801 3ND1 803 3ND1 805 3ND1 807 3ND1 810 3ND1 812 3ND1 814 3ND1 817 3ND1 820 3ND1 822 3ND1 824	014 014 014 014 014 014 014 014 014 014 014	0.130 0.130 0.130 0.130 0.130 0.130 0.130 0.130 0.130 0.130 0.130	3 units 3 units
	00	30	100 125 160	500 V AC	3ND1 830 3ND1 832 3ND1 836	014 014 014	0.192 0.192 0.192	3 units 3 units 3 units
	1	30 47.2	63 80 100 125 160 200 250	690 V AC	3ND2 122 3ND2 124 3ND2 130 3ND2 132 3ND2 136 3ND2 140 3ND2 144	014 014 014 014 014 014 014	0.290 0.290 0.440 0.440 0.440 0.440 0.440	3 units 3 units 3 units 3 units 3 units 3 units 3 units
	2	47.2 57.8	125 160 200 250 315 355 400	690 V AC	3ND2 232 3ND2 236 3ND2 240 3ND2 244 3ND2 252 3ND2 254 3ND2 260	014 014 014 014 014 014 014	0.440 0.440 0.440 0.440 0.650 0.650 0.650	3 units 3 units 3 units 3 units 3 units 3 units 3 units
	3	57.8 71.2	315 355 400 500 630	690 V AC	3ND2 352 3ND2 354 3ND2 360 3ND1 365 3ND1 372	014 014 014 014 014	0.650 0.650 0.650 1.030 1.000	3 units 3 units 3 units 3 units 3 units

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Fuses and Fuse Systems

3ND, 3NW Fuse Links for Motor Circuits

Cylindrical fuse links aM

Selection and ordering data

Size mm x mm	I_n A	U_n V AC	Operational class aM		PG	Weight 1 unit approx.	PS*/ P. unit
			Order No.	Price 1 unit			
Cylindrical fuse links							
10 x 38	0.5 1 2 4 6 8 10 12 16 20 25	500 400	3NW8 000-1 3NW8 011-1 3NW8 002-1 3NW8 004-1 3NW8 001-1 3NW8 008-1 3NW8 003-1 3NW8 006-1 3NW8 005-1 3NW8 007-1 3NW8 010-1	018 018 018 018 018 018 018 018 018 018 018 018	0.003 0.008 0.008 0.008 0.008 0.003 0.008 0.008 0.008 0.008 0.008 0.008	10 units 10 units	
14 x 51	2 4 6 8 10 12 16 20 25 32 40 50	500 400	3NW8 102-1 3NW8 104-1 3NW8 101-1 3NW8 108-1 3NW8 103-1 3NW8 106-1 3NW8 105-1 3NW8 107-1 3NW8 110-1 3NW8 112-1 3NW8 117-1 3NW8 120-1	018 018 018 018 018 018 018 018 018 018 018 018	0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019 0.019	10 units 10 units	
22 x 58	10 12 16 20 25 32 40 50 63 80 100	500 400	3NW8 203-1 3NW8 206-1 3NW8 205-1 3NW8 207-1 3NW8 210-1 3NW8 212-1 3NW8 217-1 3NW8 220-1 3NW8 222-1 3NW8 224-1 3NW8 230-1	018 018 018 018 018 018 018 018 018 018 018 018	0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051 0.051	10 units 10 units	

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Fuses and Fuse Systems

American/Canadian Fuses Class CC

Class CC fuse links and holders

Selection and ordering data

Rated current A	Characteristic slow		Characteristic quick		Characteristic slow, current limiting		PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
	Order No.	Price 1 unit	Order No.	Price 1 unit	Order No.	Price 1 unit			
Class CC fuses									
0.6 (6/10)	3NW1 006-0HG	--	--	--	--	--	018	0.008	10 units
0.8 (8/10)	3NW1 0080HG	--	--	--	--	--	018	0.008	10 units
1	3NW1 010-0HG	3NW2 010-0HG	3NW3 010-0HG				018	0.008	10 units
1.5 (1 ½)	3NW1 015-0HG	--	--	--	--	--	018	0.008	10 units
2	3NW1 020-0HG	3NW2 020-0HG	3NW3 020-0HG				018	0.008	10 units
3	3NW1 030-0HG	3NW2 030-0HG	3NW3 030-0HG				018	0.008	10 units
4	3NW1 040-0HG	3NW2 040-0HG	3NW3 040-0HG				018	0.008	10 units
5	3NW1 050-0HG	3NW2 050-0HG	3NW3 050-0HG				018	0.008	10 units
6	3NW1 060-0HG	3NW2 060-0HG	3NW3 060-0HG				018	0.008	10 units
8	3NW1 080-0HG	3NW2 080-0HG	3NW3 080-0HG				018	0.008	10 units
10	3NW1 100-0HG	3NW2 100-0HG	3NW3 100-0HG				018	0.008	10 units
12	3NW1 120-0HG	3NW2 120-0HG	3NW3 120-0HG				018	0.008	10 units
15	3NW1 150-0HG	3NW2 150-0HG	3NW3 150-0HG				018	0.008	10 units
20	3NW1 200-0HG	3NW2 200-0HG	3NW3 200-0HG				018	0.008	10 units
25	3NW1 250-0HG	3NW2 250-0HG	3NW3 250-0HG				018	0.008	10 units
30	3NW1 300-0HG	3NW2 300-0HG	3NW3 300-0HG				018	0.008	10 units
Version				Rated voltage	Rated current	MW	Order No.	Price	PG
				V	A				Weight 1 unit approx. kg
Class CC fuse holders									
									
1-pole	600	30	1		3NW7 513-0HG		018	0.056	1 unit
1-pole + N	600	30	1		3NW7 553-0HG		018	0.069	1 unit
2-pole	600	30	2		3NW7 523-0HG		018	0.118	1 unit
3-pole	600	30	3		3NW7 533-0HG		018	0.172	1 unit
3-pole + N	600	30	3		3NW7 563-0HG		018	0.185	1 unit
4-pole	600	30	4		3NW7 543-0HG		018	0.236	1 unit

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Selection and ordering data

	Dimensions W × H × D mm × mm × mm	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
	Busbar holders for SR60 busbar system For busbars with a bar thickness of 5 or 10 mm and a busbar height of 12, 15, 20, 25 or 30 mm 60 mm busbar distance External 3-phase 20 × 220 × 50/55 Internal 3-phase 20 × 185 × 50/55 Internal 4-phase 20 × 245 × 50/55	8US19 23-2AA00 8US19 23-3AA00 8US19 23-4AA00	103 103 103	0.214 0.200 0.269	10 units 10 units 10 units	
	N/PE busbar holders For mounting onto busbar supports, can also be used as single holder 1-phase 20 × 90 × 50/55	5SH3 506	016	0.070	4 units	
	SR60 connecting terminal plates 3-phase, for conductors from 150 to 300 mm ² (illustration without cover)	5SH3 535	016	1.657	1 unit	
	Connector blocks for SR60 busbars 3-phase, for conductors from 35 to 120 mm ²	8US19 21-1AA00	103	0.607	1 unit	

Accessories

	Conductor cross-section Up to mm ²	Tightening torque Nm	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Connection terminals							
 8JH4 102  8JH4 104	Terminals for one busbar 12 mm × 5 mm 1.5 ... 16 16 ... 35	1.4 3.0	8JH4 102 8JH4 104	046 046	0.010 0.030	1 unit 1 unit	
 8JH4 105  8JK3 061	Terminals for two busbars 12 mm × 10 mm 16 ... 35 16 ... 70 25 ... 95 25 ... 120	6.0 10.0 10.0	8JH4 105 8JH4 106 8JK3 061	046 046 046	0.030 0.070 0.090	1 unit 1 unit 1 unit	
 8JH4 105  8JK3 061	Extension terminals For 12 mm × 5 mm busbar Busbar not included in delivery (1 set = 2 units)	6.0	8JK3 201	046	0.100	1 set	
	Terminals for circular conductors 20 mm × 5 mm to 30 mm × 10 mm 150 ... 240		8US19 41-2BB00	103	0.307	6 units	

* You can order this quantity or a multiple thereof.

SR60 Busbar System

Mounting components

Selection and ordering data

Size A	Rated current V	Rated voltage	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
NEOZED SR60 bus-mounting bases							
For busbar thickness 5 mm NEOZED adapter sleeves 3-pole D02	63	400	5SG6 202	016	0.141	4 units	
Excess width with clearance for wiring D02	63	400	5SG6 204	016	0.154	4 units	
For busbar thickness 10 mm NEOZED adapter sleeves 3-pole D02							
Excess width with clearance for wiring D02	63	400	5SG6 203	016	0.138	4 units	
Excess width with clearance for wiring D02	63	400	5SG6 205	016	0.149	4 units	
DIAZED SR60 bus-mounting bases							
For busbar thickness 5 mm For use of DIAZED SR60 adapter rings 3-pole DII	25	500	5SF6 014	016	0.230	2 units	
DIII	63	690	5SF6 214	016	0.318	2 units	
For use of DIAZED screw adapters 3-pole DII	25	500	5SF6 015	016	0.222	2 units	
DIII	63	690	5SF6 215	016	0.310	2 units	
For busbar thickness 10 mm For use of DIAZED SR60 adapter rings 3-pole DII	25	500	5SF6 016	016	0.233	2 units	
DIII	63	690	5SF6 216	016	0.316	2 units	
For use of DIAZED screw adapters 3-pole DII	25	500	5SF6 017	016	0.220	2 units	
DIII	63	690	5SF6 217	016	0.328	2 units	

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SR60 Busbar System

Mounting components

Size	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit	
						Unit(s)	
NEOZED SR60 covers							
D02 Excess width with clearance for wiring	1.5	5SH5 241		016	0.026	4 units	
D02	2	5SH5 242		016	0.031	4 units	
With double width for more free space for wiring							
D02	3	5SH5 243		016	0.040	4 units	
DIAZED SR60 covers							
DII DIII	2.3 3.2	5SH2 042 5SH2 242		016 016	0.050 0.061	2 units 2 units	
With double width for more free space for wiring							
DII DIII	4.7 6.4	5SH2 043 5SH2 243		016 016	0.084 0.106	2 units 2 units	
Size	Thread	For fuse links	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit
	A						Unit(s)
DIAZED SR60 adapter rings							
Only for DIAZED SR60 bus-mounting bases							
DII	E 27	2 4 6 10 16 20	5SH3 071 5SH3 072 5SH3 073 5SH3 074 5SH3 075 5SH3 076		016 016 016 016 016 016	0.005 0.005 0.005 0.005 0.005 0.004	10 units 10 units 10 units 10 units 10 units 10 units
DIII	E 33	2 4 6 10 16 20 25 35 50	5SH3 078 5SH3 080 5SH3 081 5SH3 082 5SH3 083 5SH3 084 5SH3 085 5SH3 086 5SH3 087		016 016 016 016 016 016 016 016 016	0.008 0.008 0.008 0.008 0.008 0.006 0.007 0.006 0.005	10 units 10 units 10 units 10 units 10 units 10 units 10 units 10 units 10 units

For NEOZED screw caps, adapter sleeves and fuse links,
see Fuses and Fuse Systems --> NEOZED Fuse System.
For DIAZED screw caps, adapter sleeves and fuse links,
see Fuses and Fuse Systems --> DIAZED Fuse System.

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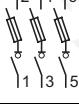
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SR60 Busbar System

Mounting components

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	Rated current AC A	Rated voltage AC V	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)	
	NEOZED SR60 bus-mounting switch disconnectors For busbar thickness 5 and 10 mm For 3-phase busbar system Width: 1.5 MW 3-pole Size D02 	63	400	5SG7 230	016	0.700	1 unit	
	SR60 bus-mounting disconnectors for 10 x 38 mm cylindrical fuses For busbar thickness 5 and 10 mm For 3-phase busbar system 3-pole 	32	690	3NW7 430	018	0.700	1 unit	
	Auxiliary switches 1 changeover contact, 24 to 230 V AC, AC 2 A		5SH5 525	016	0.007	1 unit		
	Lateral modules For NEOZED SR60 bus-mounting switch disconnectors For better heat conduction at permanent loads over 35 A Width: 0.5 MW		5SH5 526	016	0.060	1 unit		
	Reducers For NEOZED fuse links D01 In the SR60 bus-mounting switch disconnector		5SH5 527	016	0.003	10 units		
			Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)	
	SR60 LV HRC bus-mounting fuse bases Size 000 and 00 With cover, top terminals, for 5 and 10 mm busbar thickness 3-pole Terminals up to 70 mm ² Rated voltage 690 V AC With saddle-type connector With flat connector, screw M8		3NH4 052 3NH4 053	014 014	0.641 0.646	1 unit 1 unit		
I_u	For LV HRC links Size	Conductor cross-section Up to mm ²	Type of connection/ Adapter	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
100	000 and 00	1.5 ... 35	Top Bottom	3NP40 16-1CK01 3NP40 16-1CJ01	103	0.916	1 unit	
160	000 and 00	Up to 2 x 70	Top Bottom	3NP40 76-1CE01 3NP40 76-1CF01	103	1.203	1 unit	
160	000 and 00	2.5 ... 70 (SIGUT terminal)	Top Bottom	3NP40 76-1CK01 3NP40 76-1CJ01	103	1.295	1 unit	
250	0 and 1	max. 150	Top or bottom	3NP42 76-1CG01	103	3.713	1 unit	
400	2	max. 240	Top or bottom	3NP43 76-1CG01	103	5.440	1 unit	
630	3	max. 2 x 240	Top or bottom	3NP44 76-1CG01	103	7.688	1 unit	

For more busbar adapters, see SIVACON Switchgear, Distribution Systems and Cabinets.

For more fuse switch disconnectors, see Switching and Protection Devices, Switch Disconnectors.

* You can order this quantity or a multiple thereof.

Selection and ordering data

	Length mm	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
SR60 covers						
	Bases Height 230 mm, for 3 busbars 290 mm, for 4 busbars	1100	5SH3 526 5SH3 527	016 016	1.100 1.300	2 units 2 units
	Blanking covers Depth 32 mm	1000	5SH3 537	016	0.075	2 units
	Cover profiles for busbars Up to 30 x 5 mm Up to 30 x 10 mm	1000	8US19 22-2AA00 8US19 22-2BA00	103 103	0.156 0.105	10 units 10 units
	Edges H x W 17 x 36 mm, for 3 busbars 77 x 36 mm, for 4 busbars	1100	5SH3 528 5SH3 530	016 016	0.311 0.583	2 units 2 units
	Partitions Slotted H x W 17 x 86 mm	1100	5SH3 531	016	0.365	2 units
		Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
SR60 covers						
	End covers for busbar supports, lateral Height 230 mm 290 mm (1 set = 2 right and 2 left end covers)		5SH3 533 5SH3 534	016 016	0.038 1 set 0.048	4 units 4 units
	End covers for busbar supports, top 3-pole 4-pole		8US19 22-1AC00 8US19 22-1AB00	103 103	0.020 0.055	10 units 1 unit
	Edge supports and supports for partitions		5SH3 532	016	0.106	2 units
	Supports for the blanking covers For blanking cover		5SH3 536	016	0.040	4 units

* You can order this quantity or a multiple thereof.

Introduction

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Overview

Version	Tripping characteristic	Mounting depth [mm]	Rated currents I_n	Standards	Rated short-circuit capacity Energy limitation class	Usage	
						Non-residential buildings	
						Residential buildings	
						Industry	
Standard product range							
5SJ6	B	70	6 ... 32 A	EN 60898	6 000 [3]	• • •	
5SY6	B		6 ... 63 A			• • •	
	C		0.3 ... 63 A			• • •	
	D		0.3 ... 63 A			• • •	
High-capacity product range							
5SJ4	B	70	6 ... 63 A	UL 489 CSA 22.2 No. 5.1	15 KA	• • •	
	C		0.3 ... 63 A			• • •	
	D		0.3 ... 63 A			• • •	
5SY4	A		1 ... 63 A	EN 60898	10 000 [3]	• • •	
	B		6 ... 80 A			• • •	
	C		0.3 ... 80 A			• • •	
	D		0.3 ... 63 A			• • •	
5SY7	B		6 ... 63 A		15 000 [3]	• • •	
	C		0.3 ... 63 A			• • •	
	D		0.3 ... 63 A			• • •	
5SY8	C		0.3 ... 63 A	EN 60947-2	25 KA	• • •	
	D		0.3 ... 63 A			• • •	
AC/DC product range							
5SY5	B	70	6 ... 63 A	EN 60898	10 000 [3]	• • •	
	C		0.3 ... 63 A			• • •	
High-current product range							
5SP4	B	70	80 ... 125 A	EN 60898	10 000	• • •	
	C		80 ... 125 A			• • •	
	D		80 ... 100 A			• • •	
Power supply company product range							
5SP3	E	92	16 ... 100 A	DIN VDE 0645	25 000	• • •	
Approvals							
VDE	IMQ	UL	BV	DNV	GL	LRS	CCC
Standard product range							
5SJ6	•						
5SY6	•	•	•	•	•	•	•
High-capacity product range							
5SJ4			•				
5SY4	•	•	•	•	•	•	•
5SY7	•	•	•	•	•	•	•
5SY8		•					
AC/DC product range							
5SY5	•						
High-current product range							
5SP4	•	•			•		•
Power supply company product range							
5SP3	•						

Application

5SY6-KV miniature circuit-breakers

- U_n : 230 V AC, 50 to 60 Hz
- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898
- 1+N in 1 MW for distribution boards with little available space.
- Additional components can be retrofitted.

Selection and ordering data

	I_n A	MW	Characteristic B		PG	Characteristic C		PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
			Order No.	Price 1 unit		Order No.	Price 1 unit			
1-pole + N						5SY6 002-7KV			003	0.132
	2	1	--			5SY6 004-7KV			003	0.132
	4		--			5SY6 006-7KV			003	0.132
	6		5SY6 006-6KV		002					
	8		--			5SY6 008-7KV			003	0.132
	10		5SY6 010-6KV		002	5SY6 010-7KV			003	0.132
	13		5SY6 013-6KV		002	5SY6 013-7KV			003	0.132
	16		5SY6 016-6KV		002	5SY6 016-7KV			003	0.132
	20		5SY6 020-6KV		002	5SY6 020-7KV			003	0.132
	25		5SY6 025-6KV		002	5SY6 025-7KV			003	0.132
	32		5SY6 032-6KV		002	5SY6 032-7KV			003	0.132
	40		5SY6 040-6KV		002	5SY6 040-7KV			003	0.132

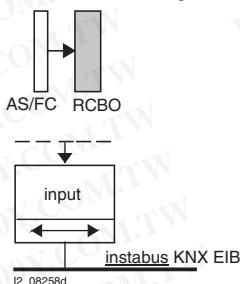
Miniature Circuit-Breakers

Standard Product Range

**Auxiliary switches/fault signal contacts
for 5SY6 ...-KV**

Benefits

- An auxiliary switch or fault signal contact can be retrofitted to the left-hand side of the miniature circuit-breaker housing
- Mounting with factory-fitted screws
- Can be connected to *instabus KNX EIB* and AS-Interface bus or PROFIBUS through binary inputs



Application

- Auxiliary switch: Indications of the circuit state of the miniature circuit-breaker: ON/OFF
- Fault signal contact: Signaling of electrical triggering, no signaling of mechanical shut-down
- Short-circuit protection ensured by miniature circuit-breakers with characteristic B or C with $I_{n} = 4$ A or fuse gL 4 A
- Product standards: IEC/EN 62019 (VDE 0640)

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Technical specifications

5ST3 018-0KV, 5ST3 028-0KV								
Terminals								
• Conductor cross-section	mm ²	0.5 ... 2.5						
• Recommended tightening torque		Nm	0.6 ... 0.8					
Min. contact load		50 mA/24 V						
Max. contact load								
• 230 V AC, AC-15	A	2						
• 230 V AC, AC-13	A	3						
• 110 V DC, DC-12	A	0.5						

Selection and ordering data

	Version	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Auxiliary switches (AS) for 5SY6 ...-KV							
	1 NO + 1 NC	0.5	5ST3 018-0KV	027	0.037	1 unit	
Fault signal contacts (FC) for 5SY6 ...-KV							
	2 CO	0.5	5ST3 028-0KV	027	0.050	1 unit	

Application

- U_n : 230/400 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole
- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898

- Additional components can be retrofitted.

Selection and ordering data

	I_n	MW	Characteristic B Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
					kg	Unit(s)	
1-pole¹⁾		A					
	2	1	5SY6 102-6	002	0.165	1 unit	
	4		5SY6 104-6	002	0.165	1 unit	
	6 ¹⁾		5SJ6 106-6	002	0.165	1 unit	
	6		5SY6 106-6	002	0.165	1 unit	
	10 ¹⁾		5SJ6 110-6	002	0.165	1 unit	
	10		5SY6 110-6	002	0.165	1 unit	
	13		5SY6 113-6	002	0.165	1 unit	
	16 ¹⁾		5SJ6 116-6	002	0.165	1 unit	
	16		5SY6 116-6	002	0.165	1 unit	
	20 ¹⁾		5SJ6 120-6	002	0.165	1 unit	
	20		5SY6 120-6	002	0.165	1 unit	
	25 ¹⁾		5SJ6 125-6	002	0.165	1 unit	
	25		5SY6 125-6	002	0.165	1 unit	
	32 ¹⁾ ²⁾		5SJ6 132-6	002	0.165	1 unit	
	32 ²⁾		5SY6 132-6	002	0.165	1 unit	
	40		5SY6 140-6	002	0.165	1 unit	
	50		5SY6 150-6	002	0.165	1 unit	
	63		5SY6 163-6	002	0.165	1 unit	
1-pole + N							
	6	2	5SY6 506-6	002	0.330	1 unit	
	10		5SY6 510-6	002	0.330	1 unit	
	13		5SY6 513-6	002	0.330	1 unit	
	16		5SY6 516-6	002	0.330	1 unit	
	20		5SY6 520-6	002	0.330	1 unit	
	25		5SY6 525-6	002	0.330	1 unit	
	32		5SY6 532-6	002	0.330	1 unit	
	40		5SY6 540-6	002	0.330	1 unit	
	50		5SY6 550-6	002	0.330	1 unit	
	63		5SY6 563-6	002	0.330	1 unit	
2-pole							
	6	2	5SY6 206-6	002	0.330	1 unit	
	10		5SY6 210-6	002	0.330	1 unit	
	13		5SY6 213-6	002	0.330	1 unit	
	16		5SY6 216-6	002	0.330	1 unit	
	20		5SY6 220-6	002	0.330	1 unit	
	25		5SY6 225-6	002	0.330	1 unit	
	32		5SY6 232-6	002	0.330	1 unit	
	40		5SY6 240-6	002	0.330	1 unit	
	50		5SY6 250-6	002	0.330	1 unit	
	63		5SY6 263-6	002	0.330	1 unit	
3-pole							
	6	3	5SY6 306-6	002	0.495	1 unit	
	10		5SY6 310-6	002	0.495	1 unit	
	13		5SY6 313-6	002	0.495	1 unit	
	16		5SY6 316-6	002	0.495	1 unit	
	20		5SY6 320-6	002	0.495	1 unit	
	25		5SY6 325-6	002	0.495	1 unit	
	32 ²⁾		5SY6 332-6	002	0.495	1 unit	
	40		5SY6 340-6	002	0.495	1 unit	
	50		5SY6 350-6	002	0.495	1 unit	
	63		5SY6 363-6	002	0.495	1 unit	

The 5SY6 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Type 5SJ6 1..-6: no additional components can be mounted.

2) Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

* You can order this quantity or a multiple thereof.

Miniature Circuit-Breakers

Standard Product Range

6 000
3

5SY6, 6 kA

Selection and ordering data

I _n A	MW	Characteristic B Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
				kg	Unit(s)	
3-pole + N 	6 10 13 16 20 25 32 40 50 63	4	5SY6 606-6 5SY6 610-6 5SY6 613-6 5SY6 616-6 5SY6 620-6 5SY6 625-6 5SY6 632-6 5SY6 640-6 5SY6 650-6 5SY6 663-6	002	0.660	1 unit
4-pole 	6 10 13 16 20 25 32 40 50 63	4	5SY6 406-6 5SY6 410-6 5SY6 413-6 5SY6 416-6 5SY6 420-6 5SY6 425-6 5SY6 432-6 5SY6 440-6 5SY6 450-6 5SY6 463-6	002	0.660	1 unit

The 5SY6 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

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 勝特力电子(深圳) 86-755-83298787

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Application

- U_n : 230/400 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole
- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898

- Additional components can be retrofitted.

Selection and ordering data

	I_n	MW	Characteristic C Order No.	Price 1 unit	PG	Characteristic D Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
	A								kg	Unit(s)
	1-pole									
	0.3	1	5SY6 114-7		003	5SY6 114-8		004	0.165	1 unit
	0.5		5SY6 105-7		003	5SY6 105-8		004	0.165	1 unit
	1		5SY6 101-7		003	5SY6 101-8		004	0.165	1 unit
	1.6		5SY6 115-7		003	5SY6 115-8		004	0.147	1 unit
	2		5SY6 102-7		003	5SY6 102-8		004	0.165	1 unit
	3		5SY6 103-7		003	5SY6 103-8		004	0.165	1 unit
	4		5SY6 104-7		003	5SY6 104-8		004	0.165	1 unit
	6		5SY6 106-7		003	5SY6 106-8		004	0.165	1 unit
	8		5SY6 108-7		003	5SY6 108-8		004	0.165	1 unit
	10		5SY6 110-7		003	5SY6 110-8		004	0.165	1 unit
	13		5SY6 113-7		003	5SY6 113-8		004	0.165	1 unit
	16		5SY6 116-7		003	5SY6 116-8		004	0.165	1 unit
	20		5SY6 120-7		003	5SY6 120-8		004	0.165	1 unit
	25		5SY6 125-7		003	5SY6 125-8		004	0.165	1 unit
	32 ¹⁾		5SY6 132-7		003	5SY6 132-8		004	0.165	1 unit
	40		5SY6 140-7		003	5SY6 140-8		004	0.165	1 unit
	50		5SY6 150-7		003	5SY6 150-8		004	0.165	1 unit
	63		5SY6 163-7		003	5SY6 163-8		004	0.165	1 unit
	1-pole + N									
	0.3	2	5SY6 514-7		003	5SY6 514-8		004	0.330	1 unit
	0.5		5SY6 505-7		003	5SY6 505-8		004	0.330	1 unit
	1		5SY6 501-7		003	5SY6 501-8		004	0.330	1 unit
	1.6		5SY6 515-7		003	5SY6 515-8		004	0.330	1 unit
	2		5SY6 502-7		003	5SY6 502-8		004	0.330	1 unit
	3		5SY6 503-7		003	5SY6 503-8		004	0.330	1 unit
	4		5SY6 504-7		003	5SY6 504-8		004	0.330	1 unit
	6		5SY6 506-7		003	5SY6 506-8		004	0.330	1 unit
	8		5SY6 508-7		003	5SY6 508-8		004	0.330	1 unit
	10		5SY6 510-7		003	5SY6 510-8		004	0.330	1 unit
	13		5SY6 513-7		003	5SY6 513-8		004	0.330	1 unit
	16		5SY6 516-7		003	5SY6 516-8		004	0.330	1 unit
	20		5SY6 520-7		003	5SY6 520-8		004	0.330	1 unit
	25		5SY6 525-7		003	5SY6 525-8		004	0.330	1 unit
	32		5SY6 532-7		003	5SY6 532-8		004	0.330	1 unit
	40		5SY6 540-7		003	5SY6 540-8		004	0.330	1 unit
	50		5SY6 550-7		003	5SY6 550-8		004	0.330	1 unit
	63		5SY6 563-7		003	5SY6 563-8		004	0.330	1 unit
	2-pole									
	0.3	2	5SY6 214-7		003	5SY6 214-8		004	0.330	1 unit
	0.5		5SY6 205-7		003	5SY6 205-8		004	0.330	1 unit
	1		5SY6 201-7		003	5SY6 201-8		004	0.330	1 unit
	1.6		5SY6 215-7		003	5SY6 215-8		004	0.330	1 unit
	2		5SY6 202-7		003	5SY6 202-8		004	0.330	1 unit
	3		5SY6 203-7		003	5SY6 203-8		004	0.330	1 unit
	4		5SY6 204-7		003	5SY6 204-8		004	0.330	1 unit
	6		5SY6 206-7		003	5SY6 206-8		004	0.330	1 unit
	8		5SY6 208-7		003	5SY6 208-8		004	0.330	1 unit
	10		5SY6 210-7		003	5SY6 210-8		004	0.330	1 unit
	13		5SY6 213-7		003	5SY6 213-8		004	0.330	1 unit
	16		5SY6 216-7		003	5SY6 216-8		004	0.330	1 unit
	20		5SY6 220-7		003	5SY6 220-8		004	0.330	1 unit
	25		5SY6 225-7		003	5SY6 225-8		004	0.330	1 unit
	32		5SY6 232-7		003	5SY6 232-8		004	0.330	1 unit
	40		5SY6 240-7		003	5SY6 240-8		004	0.330	1 unit
	50		5SY6 250-7		003	5SY6 250-8		004	0.330	1 unit
	63		5SY6 263-7		003	5SY6 263-8		004	0.330	1 unit

The 5SY6 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

* You can order this quantity or a multiple thereof.

5SY6, 6 kA

	I_n A	MW	Characteristic C		PG	Characteristic D		PG	Weight 1 unit approx.	PS*/ P. unit
			Order No.	Price 1 unit		Order No.	Price 1 unit			
									kg	Unit(s)
3-pole										
	0.3	3	5SY6 314-7		003	5SY6 314-8		004	0.495	1 unit
	0.5		5SY6 305-7		003	5SY6 305-8		004	0.495	1 unit
	1		5SY6 301-7		003	5SY6 301-8		004	0.495	1 unit
	1.6		5SY6 315-7		003	5SY6 315-8		004	0.495	1 unit
	2		5SY6 302-7		003	5SY6 302-8		004	0.495	1 unit
	3		5SY6 303-7		003	5SY6 303-8		004	0.495	1 unit
	4		5SY6 304-7		003	5SY6 304-8		004	0.495	1 unit
	6		5SY6 306-7		003	5SY6 306-8		004	0.495	1 unit
	8		5SY6 308-7		003	5SY6 308-8		004	0.495	1 unit
	10		5SY6 310-7		003	5SY6 310-8		004	0.495	1 unit
	13		5SY6 313-7		003	5SY6 313-8		004	0.495	1 unit
	16		5SY6 316-7		003	5SY6 316-8		004	0.495	1 unit
	20		5SY6 320-7		003	5SY6 320-8		004	0.495	1 unit
	25		5SY6 325-7		003	5SY6 325-8		004	0.495	1 unit
	32 ¹⁾		5SY6 332-7		003	5SY6 332-8		004	0.495	1 unit
	40		5SY6 340-7		003	5SY6 340-8		004	0.495	1 unit
	50		5SY6 350-7		003	5SY6 350-8		004	0.495	1 unit
	63		5SY6 363-7		003	5SY6 363-8		004	0.495	1 unit
3-pole + N										
	0.3	4	5SY6 614-7		003	5SY6 614-8		004	0.660	1 unit
	0.5		5SY6 605-7		003	5SY6 605-8		004	0.660	1 unit
	1		5SY6 601-7		003	5SY6 601-8		004	0.660	1 unit
	1.6		5SY6 615-7		003	5SY6 615-8		004	0.660	1 unit
	2		5SY6 602-7		003	5SY6 602-8		004	0.660	1 unit
	3		5SY6 603-7		003	5SY6 603-8		004	0.660	1 unit
	4		5SY6 604-7		003	5SY6 604-8		004	0.660	1 unit
	6		5SY6 606-7		003	5SY6 606-8		004	0.660	1 unit
	8		5SY6 608-7		003	5SY6 608-8		004	0.660	1 unit
	10		5SY6 610-7		003	5SY6 610-8		004	0.660	1 unit
	13		5SY6 613-7		003	5SY6 613-8		004	0.660	1 unit
	16		5SY6 616-7		003	5SY6 616-8		004	0.660	1 unit
	20		5SY6 620-7		003	5SY6 620-8		004	0.660	1 unit
	25		5SY6 625-7		003	5SY6 625-8		004	0.660	1 unit
	32		5SY6 632-7		003	5SY6 632-8		004	0.660	1 unit
	40		5SY6 640-7		003	5SY6 640-8		004	0.660	1 unit
	50		5SY6 650-7		003	5SY6 650-8		004	0.660	1 unit
	63		5SY6 663-7		003	5SY6 663-8		004	0.660	1 unit
4-pole										
	0.3	4	5SY6 414-7		003	5SY6 414-8		004	0.660	1 unit
	0.5		5SY6 405-7		003	5SY6 405-8		004	0.660	1 unit
	1		5SY6 401-7		003	5SY6 401-8		004	0.660	1 unit
	1.6		5SY6 415-7		003	5SY6 415-8		004	0.660	1 unit
	2		5SY6 402-7		003	5SY6 402-8		004	0.660	1 unit
	3		5SY6 403-7		003	5SY6 403-8		004	0.660	1 unit
	4		5SY6 404-7		003	5SY6 404-8		004	0.660	1 unit
	6		5SY6 406-7		003	5SY6 406-8		004	0.660	1 unit
	8		5SY6 408-7		003	5SY6 408-8		004	0.660	1 unit
	10		5SY6 410-7		003	5SY6 410-8		004	0.660	1 unit
	13		5SY6 413-7		003	5SY6 413-8		004	0.660	1 unit
	16		5SY6 416-7		003	5SY6 416-8		004	0.660	1 unit
	20		5SY6 420-7		003	5SY6 420-8		004	0.660	1 unit
	25		5SY6 425-7		003	5SY6 425-8		004	0.660	1 unit
	32		5SY6 432-7		003	5SY6 432-8		004	0.660	1 unit
	40		5SY6 440-7		003	5SY6 440-8		004	0.660	1 unit
	50		5SY6 450-7		003	5SY6 450-8		004	0.660	1 unit
	63		5SY6 463-7		003	5SY6 463-8		004	0.660	1 unit

The 5SY6 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

勝特力材料 886-3-5753170

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Benefits

- Faster and reliable connection of load circuits using screwless pair of terminals on the outgoing feeder side
- No end sleeve required when using flexible conductors
- Excellent touch protection according to VBG4/BGV A2
- Easy voltage testing through test opening on outgoing feeder side
- Full compatibility with all other 5SJ and 5SY miniature circuit-breakers.

Application

- U_n : 230/400 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole
- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898
- Particularly suitable for use in residential buildings.

Function

- Double, screwless outgoing terminal for rigid and flexible conductor from 1.5 to 4 mm²
- Conductors can be detached and removed by hand without the help of tools

Selection and ordering data

	I_n A	MW	Characteristic B		PG	Characteristic C		PG	Weight 1 unit approx.	PS*/ P. unit
			Order No.	Price 1 unit		Order No.	Price 1 unit			
1-pole										
	10 13 16 20	1	5SJ6 110-6KS 5SJ6 113-6KS 5SJ6 116-6KS 5SJ6 120-6KS	002 002 002 002	5SJ6 110-7KS 5SJ6 113-7KS 5SJ6 116-7KS 5SJ6 120-7KS	003 003 003 003	0.111 0.111 0.111 0.111	1 unit 1 unit 1 unit 1 unit		
1-pole + N										
	10 13 16 20	2	5SJ6 510-6KS 5SJ6 513-6KS 5SJ6 516-6KS 5SJ6 520-6KS	002 002 002 002	5SJ6 510-7KS 5SJ6 513-7KS 5SJ6 516-7KS 5SJ6 520-7KS	003 003 003 003	0.185 0.185 0.185 0.185	1 unit 1 unit 1 unit 1 unit		
2-pole										
	10 13 16 20	2	5SJ6 210-6KS 5SJ6 213-6KS 5SJ6 216-6KS 5SJ6 220-6KS	002 002 002 002	5SJ6 210-7KS 5SJ6 213-7KS 5SJ6 216-7KS 5SJ6 220-7KS	003 003 003 003	0.225 0.225 0.225 0.225	1 unit 1 unit 1 unit 1 unit		

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Miniature Circuit-Breakers

High-Capacity Product Range

cUL us
LISTED
E 243414

5SJ4HG40, 15 kA

Benefits

- Can be used in the entire NEMA field according to UL 489 or CSA C22.2 No. 5-02 "Branch Circuit Protection", no restriction due to back-up protection
- Can be used for "Field Wiring" applications, AWG 4 to AWG 14, Cu only
- For all applications in residential, non-residential and industrial buildings

Application

- U_n : 240 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole
- Can be used in systems up to
 - 240 V AC, switching capacity 15 kA,
 - 60 V AC, switching capacity 10 kA
- Standards: UL 489, CSA C22.2 No. 5-02.

Selection and ordering data

	I_n	MW	Characteristic B		PG	Weight 1 unit approx.	PS*/ P. unit
			Order No.	Price 1 unit			
	A					kg	Unit(s)
1-pole							
	6	1	5SJ4 106-6HG40	002	0.120	1 unit	
	10		5SJ4 110-6HG40	002	0.120	1 unit	
	13		5SJ4 113-6HG40	002	0.120	1 unit	
	15		5SJ4 118-6HG40	002	0.120	1 unit	
	16		5SJ4 116-6HG40	002	0.120	1 unit	
	20		5SJ4 120-6HG40	002	0.120	1 unit	
	25		5SJ4 125-6HG40	002	0.120	1 unit	
	30		5SJ4 130-6HG40	002	0.120	1 unit	
	32		5SJ4 132-6HG40	002	0.120	1 unit	
	35		5SJ4 135-6HG40	002	0.120	1 unit	
	40		5SJ4 140-6HG40	002	0.120	1 unit	
	45		5SJ4 145-6HG40	002	0.120	1 unit	
	50		5SJ4 150-6HG40	002	0.120	1 unit	
	60		5SJ4 160-6HG40	002	0.120	1 unit	
	63		5SJ4 163-6HG40	002	0.120	1 unit	

	I_n	MW	Characteristic C		PG	Characteristic D		PG	Weight 1 unit approx.	PS*/ P. unit
			Order No.	Price 1 unit		Order No.	Price 1 unit			
	A								kg	Unit(s)
1-pole										
	0.3	1	5SJ4 114-7HG40	003		5SJ4 114-8HG40	004		0.120	1 unit
	0.5		5SJ4 105-7HG40	003		5SJ4 105-8HG40	004		0.120	1 unit
	1		5SJ4 101-7HG40	003		5SJ4 101-8HG40	004		0.120	1 unit
	1.6		5SJ4 115-7HG40	003		5SJ4 115-8HG40	004		0.120	1 unit
	2		5SJ4 102-7HG40	003		5SJ4 102-8HG40	004		0.120	1 unit
	3		5SJ4 103-7HG40	003		5SJ4 103-8HG40	004		0.120	1 unit
	4		5SJ4 104-7HG40	003		5SJ4 104-8HG40	004		0.120	1 unit
	5		5SJ4 111-7HG40	003		5SJ4 111-8HG40	004		0.120	1 unit
	6		5SJ4 106-7HG40	003		5SJ4 106-8HG40	004		0.120	1 unit
	8		5SJ4 108-7HG40	003		5SJ4 108-8HG40	004		0.120	1 unit
	10		5SJ4 110-7HG40	003		5SJ4 110-8HG40	004		0.120	1 unit
	13		5SJ4 113-7HG40	003		5SJ4 113-8HG40	004		0.120	1 unit
	15		5SJ4 118-7HG40	003		5SJ4 118-8HG40	004		0.120	1 unit
	16		5SJ4 116-7HG40	003		5SJ4 116-8HG40	004		0.120	1 unit
	20		5SJ4 120-7HG40	003		5SJ4 120-8HG40	004		0.120	1 unit
	25		5SJ4 125-7HG40	003		5SJ4 125-8HG40	004		0.120	1 unit
	30		5SJ4 130-7HG40	003		5SJ4 130-8HG40	004		0.120	1 unit
	32		5SJ4 132-7HG40	003		5SJ4 132-8HG40	004		0.120	1 unit
	35		5SJ4 135-7HG40	003		5SJ4 135-8HG40	004		0.120	1 unit
	40		5SJ4 140-7HG40	003		5SJ4 140-8HG40	004		0.120	1 unit
	45		5SJ4 145-7HG40	003		5SJ4 145-8HG40	004		0.120	1 unit
	50		5SJ4 150-7HG40	003		5SJ4 150-8HG40	004		0.120	1 unit
	60		5SJ4 160-7HG40	003		5SJ4 160-8HG40	004		0.120	1 unit
	63		5SJ4 163-7HG40	003		5SJ4 163-8HG40	004		0.120	1 unit

勝特力材料 886-3-5753170
 胜特力电子(上海) 86-21-54151736
 胜特力电子(深圳) 86-755-83298787

[Http://www.100y.com.tw](http://www.100y.com.tw)

Application

- U_n : 230/400 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole
- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898

- Additional components can be retrofitted.

Selection and ordering data

	I_n A	MW	Characteristic A		PG	Characteristic B		PG	Weight 1 unit approx.	PS*/ P. unit					
			Order No.	Price 1 unit		Order No.	Price 1 unit								
										kg					
										Unit(s)					
1-pole															
	1	1	5SY4 101-5	001	--				0.165	1 unit					
	1.6		5SY4 115-5	001	--				0.165	1 unit					
	2		5SY4 102-5	001	--				0.165	1 unit					
	3		5SY4 103-5	001	--				0.165	1 unit					
	4		5SY4 104-5	001	--				0.165	1 unit					
	6		5SY4 106-5	001	5SY4 106-6			002	0.165	1 unit					
	8		5SY4 108-5	001	--				0.165	1 unit					
	10		5SY4 110-5	001	5SY4 110-6			002	0.165	1 unit					
	13		5SY4 113-5	001	5SY4 113-6			002	0.165	1 unit					
	16		5SY4 116-5	001	5SY4 116-6			002	0.165	1 unit					
	20		5SY4 120-5	001	5SY4 120-6			002	0.165	1 unit					
	25		5SY4 125-5	001	5SY4 125-6			002	0.165	1 unit					
	32 ¹⁾		5SY4 132-5	001	5SY4 132-6			002	0.165	1 unit					
	40		5SY4 140-5	001	5SY4 140-6			002	0.165	1 unit					
	50		5SY4 150-5	001	5SY4 150-6			002	0.165	1 unit					
	63		5SY4 163-5	001	5SY4 163-6			002	0.165	1 unit					
	80 ²⁾		--	001	5SY4 180-6			002	0.162	1 unit					
1-pole + N															
	1	2	5SY4 501-5	001	--				0.330	1 unit					
	1.6		5SY4 515-5	001	--				0.330	1 unit					
	2		5SY4 502-5	001	--				0.330	1 unit					
	3		5SY4 503-5	001	--				0.330	1 unit					
	4		5SY4 504-5	001	--				0.330	1 unit					
	6		5SY4 506-5	001	5SY4 506-6			002	0.330	1 unit					
	8		5SY4 508-5	001	--				0.330	1 unit					
	10		5SY4 510-5	001	5SY4 510-6			002	0.330	1 unit					
	13		5SY4 513-5	001	5SY4 513-6			002	0.330	1 unit					
	16		5SY4 516-5	001	5SY4 516-6			002	0.330	1 unit					
	20		5SY4 520-5	001	5SY4 520-6			002	0.330	1 unit					
	25		5SY4 525-5	001	5SY4 525-6			002	0.330	1 unit					
	32		5SY4 532-5	001	5SY4 532-6			002	0.330	1 unit					
	40		5SY4 540-5	001	5SY4 540-6			002	0.330	1 unit					
	50		5SY4 550-5	001	5SY4 550-6			002	0.330	1 unit					
	63		5SY4 563-5	001	5SY4 563-6			002	0.330	1 unit					
2-pole															
	1	2	5SY4 201-5	001	--				0.330	1 unit					
	1.6		5SY4 215-5	001	--				0.330	1 unit					
	2		5SY4 202-5	001	--				0.330	1 unit					
	3		5SY4 203-5	001	--				0.330	1 unit					
	4		5SY4 204-5	001	--				0.330	1 unit					
	6		5SY4 206-5	001	5SY4 206-6			002	0.330	1 unit					
	8		5SY4 208-5	001	--				0.330	1 unit					
	10		5SY4 210-5	001	5SY4 210-6			002	0.330	1 unit					
	13		5SY4 213-5	001	5SY4 213-6			002	0.330	1 unit					
	16		5SY4 216-5	001	5SY4 216-6			002	0.330	1 unit					
	20		5SY4 220-5	001	5SY4 220-6			002	0.330	1 unit					
	25		5SY4 225-5	001	5SY4 225-6			002	0.330	1 unit					
	32		5SY4 232-5	001	5SY4 232-6			002	0.330	1 unit					
	40		5SY4 240-5	001	5SY4 240-6			002	0.330	1 unit					
	50		5SY4 250-5	001	5SY4 250-6			002	0.330	1 unit					
	63		5SY4 263-5	001	5SY4 263-6			002	0.330	1 unit					
	80 ²⁾		--	001	5SY4 280-6			002	0.324	1 unit					

The 5SY4 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Applies only for 5SY4 132-6:

Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

2) No 

Miniature Circuit-Breakers

High-Capacity Product Range

10 000
3
D'E

5SY4, 10 kA

I _n A	MW	Characteristic A		PG	Characteristic B		PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
		Order No.	Price 1 unit		Order No.	Price 1 unit			
3-pole 									
1	3	5SY4 301-5	001	--				0.495	1 unit
1.6		5SY4 315-5	001	--				0.495	1 unit
2		5SY4 302-5	001	--				0.495	1 unit
3		5SY4 303-5	001	--				0.495	1 unit
4		5SY4 304-5	001	--				0.495	1 unit
6		5SY4 306-5	001	--				0.495	1 unit
8		5SY4 308-5	001	--				0.495	1 unit
10		5SY4 310-5	001	5SY4 310-6			002	0.495	1 unit
13		5SY4 313-5	001	5SY4 313-6			002	0.495	1 unit
16		5SY4 316-5	001	5SY4 316-6			002	0.495	1 unit
20		5SY4 320-5	001	5SY4 320-6			002	0.495	1 unit
25		5SY4 325-5	001	5SY4 325-6			002	0.495	1 unit
32 ¹⁾		5SY4 332-5	001	5SY4 332-6			002	0.495	1 unit
40		5SY4 340-5	001	5SY4 340-6			002	0.495	1 unit
50		5SY4 350-5	001	5SY4 350-6			002	0.495	1 unit
63		5SY4 363-5	001	5SY4 363-6			002	0.495	1 unit
80 ²⁾		--		5SY4 380-6			002	0.486	1 unit
3-pole + N 									
1	4	5SY4 601-5	001	--				0.660	1 unit
1.6		5SY4 615-5	001	--				0.660	1 unit
2		5SY4 602-5	001	--				0.660	1 unit
3		5SY4 603-5	001	--				0.660	1 unit
4		5SY4 604-5	001	--				0.660	1 unit
6		5SY4 606-5	001	5SY4 606-6			002	0.660	1 unit
8		5SY4 608-5	001	--				0.660	1 unit
10		5SY4 610-5	001	5SY4 610-6			002	0.660	1 unit
13		5SY4 613-5	001	5SY4 613-6			002	0.660	1 unit
16		5SY4 616-5	001	5SY4 616-6			002	0.660	1 unit
20		5SY4 620-5	001	5SY4 620-6			002	0.660	1 unit
25		5SY4 625-5	001	5SY4 625-6			002	0.660	1 unit
32		5SY4 632-5	001	5SY4 632-6			002	0.660	1 unit
40		5SY4 640-5	001	5SY4 640-6			002	0.660	1 unit
50		5SY4 650-5	001	5SY4 650-6			002	0.660	1 unit
63		5SY4 663-5	001	5SY4 663-6			002	0.660	1 unit
4-pole 									
1	4	5SY4 401-5	001	--				0.660	1 unit
1.6		5SY4 415-5	001	--				0.660	1 unit
2		5SY4 402-5	001	--				0.660	1 unit
3		5SY4 403-5	001	--				0.660	1 unit
4		5SY4 404-5	001	--				0.660	1 unit
6		5SY4 406-5	001	5SY4 406-6			002	0.660	1 unit
8		5SY4 408-5	001	--				0.660	1 unit
10		5SY4 410-5	001	5SY4 410-6			002	0.660	1 unit
13		5SY4 413-5	001	5SY4 413-6			002	0.660	1 unit
16		5SY4 416-5	001	5SY4 416-6			002	0.660	1 unit
20		5SY4 420-5	001	5SY4 420-6			002	0.660	1 unit
25		5SY4 425-5	001	5SY4 425-6			002	0.660	1 unit
32		5SY4 432-5	001	5SY4 432-6			002	0.660	1 unit
40		5SY4 440-5	001	5SY4 440-6			002	0.660	1 unit
50		5SY4 450-5	001	5SY4 450-6			002	0.660	1 unit
63		5SY4 463-5	001	5SY4 463-6			002	0.660	1 unit
80 ²⁾		--		5SY4 480-6			002	0.648	1 unit

The 5SY4 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Applies only for 5SY4 332-6:

Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

2) No

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* You can order this quantity or a multiple thereof.

I_n	MW	Characteristic C Order No.	Price 1 unit	PG	Characteristic D Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
A								kg	Unit(s)
1-pole									
	0.3	1	5SY4 114-7	003	5SY4 114-8	004	0.165	1 unit	
	0.5		5SY4 105-7	003	5SY4 105-8	004	0.165	1 unit	
	1		5SY4 101-7	003	5SY4 101-8	004	0.165	1 unit	
	1.6		5SY4 115-7	003	5SY4 115-8	004	0.165	1 unit	
	2		5SY4 102-7	003	5SY4 102-8	004	0.165	1 unit	
	3		5SY4 103-7	003	5SY4 103-8	004	0.165	1 unit	
	4		5SY4 104-7	003	5SY4 104-8	004	0.165	1 unit	
	6		5SY4 106-7	003	5SY4 106-8	004	0.165	1 unit	
	8		5SY4 108-7	003	5SY4 108-8	004	0.165	1 unit	
	10		5SY4 110-7	003	5SY4 110-8	004	0.165	1 unit	
	13		5SY4 113-7	003	5SY4 113-8	004	0.165	1 unit	
	16		5SY4 116-7	003	5SY4 116-8	004	0.165	1 unit	
	20		5SY4 120-7	003	5SY4 120-8	004	0.165	1 unit	
	25		5SY4 125-7	003	5SY4 125-8	004	0.165	1 unit	
	32 ¹⁾		5SY4 132-7	003	5SY4 132-8	004	0.165	1 unit	
	40		5SY4 140-7	003	5SY4 140-8	004	0.165	1 unit	
	50		5SY4 150-7	003	5SY4 150-8	004	0.165	1 unit	
	63		5SY4 163-7	003	5SY4 163-8	004	0.165	1 unit	
	80 ²⁾		5SY4 180-7	003	--		0.161	1 unit	
1-pole + N									
	0.3		5SY4 514-7	003	5SY4 514-8	004	0.330	1 unit	
	0.5		5SY4 505-7	003	5SY4 505-8	004	0.330	1 unit	
	1		5SY4 501-7	003	5SY4 501-8	004	0.330	1 unit	
	1.6		5SY4 515-7	003	5SY4 515-8	004	0.330	1 unit	
	2		5SY4 502-7	003	5SY4 502-8	004	0.330	1 unit	
	3		5SY4 503-7	003	5SY4 503-8	004	0.330	1 unit	
	4		5SY4 504-7	003	5SY4 504-8	004	0.330	1 unit	
	6		5SY4 506-7	003	5SY4 506-8	004	0.330	1 unit	
	8		5SY4 508-7	003	5SY4 508-8	004	0.330	1 unit	
	10		5SY4 510-7	003	5SY4 510-8	004	0.330	1 unit	
	13		5SY4 513-7	003	5SY4 513-8	004	0.330	1 unit	
	16		5SY4 516-7	003	5SY4 516-8	004	0.330	1 unit	
	20		5SY4 520-7	003	5SY4 520-8	004	0.330	1 unit	
	25		5SY4 525-7	003	5SY4 525-8	004	0.330	1 unit	
	32		5SY4 532-7	003	5SY4 532-8	004	0.330	1 unit	
	40		5SY4 540-7	003	5SY4 540-8	004	0.330	1 unit	
	50		5SY4 550-7	003	5SY4 550-8	004	0.330	1 unit	
	63		5SY4 563-7	003	5SY4 563-8	004	0.330	1 unit	
	80 ²⁾		5SY4 580-7	003	--		0.345	1 unit	
2-pole									
	0.3		5SY4 214-7	003	5SY4 214-8	004	0.330	1 unit	
	0.5		5SY4 205-7	003	5SY4 205-8	004	0.330	1 unit	
	1		5SY4 201-7	003	5SY4 201-8	004	0.330	1 unit	
	1.6		5SY4 215-7	003	5SY4 215-8	004	0.330	1 unit	
	2		5SY4 202-7	003	5SY4 202-8	004	0.330	1 unit	
	3		5SY4 203-7	003	5SY4 203-8	004	0.330	1 unit	
	4		5SY4 204-7	003	5SY4 204-8	004	0.330	1 unit	
	6		5SY4 206-7	003	5SY4 206-8	004	0.330	1 unit	
	8		5SY4 208-7	003	5SY4 208-8	004	0.330	1 unit	
	10		5SY4 210-7	003	5SY4 210-8	004	0.330	1 unit	
	13		5SY4 213-7	003	5SY4 213-8	004	0.330	1 unit	
	16		5SY4 216-7	003	5SY4 216-8	004	0.330	1 unit	
	20		5SY4 220-7	003	5SY4 220-8	004	0.330	1 unit	
	25		5SY4 225-7	003	5SY4 225-8	004	0.330	1 unit	
	32		5SY4 232-7	003	5SY4 232-8	004	0.330	1 unit	
	40		5SY4 240-7	003	5SY4 240-8	004	0.330	1 unit	
	50		5SY4 250-7	003	5SY4 250-8	004	0.330	1 unit	
	63		5SY4 263-7	003	5SY4 263-8	004	0.330	1 unit	
	80 ²⁾		5SY4 280-7	003	--		0.323	1 unit	

The 5SY4 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Applies only for 5SY4 132-7:

Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

2) No .

Miniature Circuit-Breakers

High-Capacity Product Range

5SY4, 10 kA

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10 000
3
D'E

I_n A	MW	Characteristic C Order No.	Price 1 unit	PG	Characteristic D Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
3-pole									
	0.3	3	5SY4 314-7	003	5SY4 314-8	004	0.495	1 unit	
	0.5		5SY4 305-7	003	5SY4 305-8	004	0.495	1 unit	
	1		5SY4 301-7	003	5SY4 301-8	004	0.495	1 unit	
	1.6		5SY4 315-7	003	5SY4 315-8	004	0.495	1 unit	
	2		5SY4 302-7	003	5SY4 302-8	004	0.495	1 unit	
	3		5SY4 303-7	003	5SY4 303-8	004	0.495	1 unit	
	4		5SY4 304-7	003	5SY4 304-8	004	0.495	1 unit	
	6		5SY4 306-7	003	5SY4 306-8	004	0.495	1 unit	
	8		5SY4 308-7	003	5SY4 308-8	004	0.495	1 unit	
	10		5SY4 310-7	003	5SY4 310-8	004	0.495	1 unit	
	13		5SY4 313-7	003	5SY4 313-8	004	0.495	1 unit	
	16		5SY4 316-7	003	5SY4 316-8	004	0.495	1 unit	
	20		5SY4 320-7	003	5SY4 320-8	004	0.495	1 unit	
	25		5SY4 325-7	003	5SY4 325-8	004	0.495	1 unit	
	32 ¹⁾		5SY4 332-7	003	5SY4 332-8	004	0.495	1 unit	
	40		5SY4 340-7	003	5SY4 340-8	004	0.495	1 unit	
	50		5SY4 350-7	003	5SY4 350-8	004	0.495	1 unit	
	63		5SY4 363-7	003	5SY4 363-8	004	0.495	1 unit	
	80 ²⁾		5SY4 380-7	003	-		0.482	1 unit	
3-pole + N									
	0.3	4	5SY4 614-7	003	5SY4 614-8	004	0.660	1 unit	
	0.5		5SY4 605-7	003	5SY4 605-8	004	0.660	1 unit	
	1		5SY4 601-7	003	5SY4 601-8	004	0.660	1 unit	
	1.6		5SY4 615-7	003	5SY4 615-8	004	0.660	1 unit	
	2		5SY4 602-7	003	5SY4 602-8	004	0.660	1 unit	
	3		5SY4 603-7	003	5SY4 603-8	004	0.660	1 unit	
	4		5SY4 604-7	003	5SY4 604-8	004	0.660	1 unit	
	6		5SY4 606-7	003	5SY4 606-8	004	0.660	1 unit	
	8		5SY4 608-7	003	5SY4 608-8	004	0.660	1 unit	
	10		5SY4 610-7	003	5SY4 610-8	004	0.660	1 unit	
	13		5SY4 613-7	003	5SY4 613-8	004	0.660	1 unit	
	16		5SY4 616-7	003	5SY4 616-8	004	0.660	1 unit	
	20		5SY4 620-7	003	5SY4 620-8	004	0.660	1 unit	
	25		5SY4 625-7	003	5SY4 625-8	004	0.660	1 unit	
	32		5SY4 632-7	003	5SY4 632-8	004	0.660	1 unit	
	40		5SY4 640-7	003	5SY4 640-8	004	0.660	1 unit	
	50		5SY4 650-7	003	5SY4 650-8	004	0.660	1 unit	
	63		5SY4 663-7	003	5SY4 663-8	004	0.660	1 unit	
	80 ²⁾		5SY4 680-7	003	-		0.695	1 unit	
4-pole									
	0.3	4	5SY4 414-7	003	5SY4 414-8	004	0.660	1 unit	
	0.5		5SY4 405-7	003	5SY4 405-8	004	0.660	1 unit	
	1		5SY4 401-7	003	5SY4 401-8	004	0.660	1 unit	
	1.6		5SY4 415-7	003	5SY4 415-8	004	0.660	1 unit	
	2		5SY4 402-7	003	5SY4 402-8	004	0.660	1 unit	
	3		5SY4 403-7	003	5SY4 403-8	004	0.660	1 unit	
	4		5SY4 404-7	003	5SY4 404-8	004	0.660	1 unit	
	6		5SY4 406-7	003	5SY4 406-8	004	0.660	1 unit	
	8		5SY4 408-7	003	5SY4 408-8	004	0.660	1 unit	
	10		5SY4 410-7	003	5SY4 410-8	004	0.660	1 unit	
	13		5SY4 413-7	003	5SY4 413-8	004	0.660	1 unit	
	16		5SY4 416-7	003	5SY4 416-8	004	0.660	1 unit	
	20		5SY4 420-7	003	5SY4 420-8	004	0.660	1 unit	
	25		5SY4 425-7	003	5SY4 425-8	004	0.660	1 unit	
	32		5SY4 432-7	003	5SY4 432-8	004	0.660	1 unit	
	40		5SY4 440-7	003	5SY4 440-8	004	0.660	1 unit	
	50		5SY4 450-7	003	5SY4 450-8	004	0.660	1 unit	
	63		5SY4 463-7	003	5SY4 463-8	004	0.660	1 unit	
	80 ²⁾		5SY4 480-7	003	-		0.647	1 unit	

The 5SY4 and 5SY7 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Applies only for 5SY4 332-7 and 5SY7 132-6:
Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

2) No

* You can order this quantity or a multiple thereof.

Application

- U_n : 230/400 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole

- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898
- Additional components can be retrofitted.

Selection and ordering data

	I_n A	MW	Characteristic B Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
					kg	Unit(s)	
1-pole							
							
	6	1	5SY7 106-6	002	0.165	1 unit	
	10		5SY7 110-6	002	0.165	1 unit	
	13		5SY7 113-6	002	0.165	1 unit	
	16		5SY7 116-6	002	0.165	1 unit	
	20		5SY7 120-6	002	0.165	1 unit	
	25		5SY7 125-6	002	0.165	1 unit	
	32 ¹⁾		5SY7 132-6	002	0.165	1 unit	
	40		5SY7 140-6	002	0.165	1 unit	
	50		5SY7 150-6	002	0.165	1 unit	
	63		5SY7 163-6	002	0.165	1 unit	
1-pole + N							
							
	6	2	5SY7 506-6	002	0.330	1 unit	
	10		5SY7 510-6	002	0.330	1 unit	
	13		5SY7 513-6	002	0.330	1 unit	
	16		5SY7 516-6	002	0.330	1 unit	
	20		5SY7 520-6	002	0.330	1 unit	
	25		5SY7 525-6	002	0.330	1 unit	
	32		5SY7 532-6	002	0.330	1 unit	
	40		5SY7 540-6	002	0.330	1 unit	
	50		5SY7 550-6	002	0.330	1 unit	
	63		5SY7 563-6	002	0.330	1 unit	
2-pole							
							
	6	2	5SY7 206-6	002	0.330	1 unit	
	10		5SY7 210-6	002	0.330	1 unit	
	13		5SY7 213-6	002	0.330	1 unit	
	16		5SY7 216-6	002	0.330	1 unit	
	20		5SY7 220-6	002	0.330	1 unit	
	25		5SY7 225-6	002	0.330	1 unit	
	32		5SY7 232-6	002	0.330	1 unit	
	40		5SY7 240-6	002	0.330	1 unit	
	50		5SY7 250-6	002	0.330	1 unit	
	63		5SY7 263-6	002	0.330	1 unit	
3-pole							
							
	6	3	5SY7 306-6	002	0.495	1 unit	
	10		5SY7 310-6	002	0.495	1 unit	
	13		5SY7 313-6	002	0.495	1 unit	
	16		5SY7 316-6	002	0.495	1 unit	
	20		5SY7 320-6	002	0.495	1 unit	
	25		5SY7 325-6	002	0.495	1 unit	
	32		5SY7 332-6	002	0.495	1 unit	
	40		5SY7 340-6	002	0.495	1 unit	
	50		5SY7 350-6	002	0.495	1 unit	
	63		5SY7 363-6	002	0.495	1 unit	
3-pole + N							
							
	6	4	5SY7 606-6	002	0.660	1 unit	
	10		5SY7 610-6	002	0.660	1 unit	
	13		5SY7 613-6	002	0.660	1 unit	
	16		5SY7 616-6	002	0.660	1 unit	
	20		5SY7 620-6	002	0.660	1 unit	
	25		5SY7 625-6	002	0.660	1 unit	
	32		5SY7 632-6	002	0.660	1 unit	
	40		5SY7 640-6	002	0.660	1 unit	
	50		5SY7 650-6	002	0.660	1 unit	
	63		5SY7 663-6	002	0.660	1 unit	
4-pole							
							
	6	4	5SY7 406-6	002	0.660	1 unit	
	10		5SY7 410-6	002	0.660	1 unit	
	13		5SY7 413-6	002	0.660	1 unit	
	16		5SY7 416-6	002	0.660	1 unit	
	20		5SY7 420-6	002	0.660	1 unit	
	25		5SY7 425-6	002	0.660	1 unit	
	32		5SY7 432-6	002	0.660	1 unit	
	40		5SY7 440-6	002	0.660	1 unit	
	50		5SY7 450-6	002	0.660	1 unit	
	63		5SY7 463-6	002	0.660	1 unit	

For information and footer, see next page.

* You can order this quantity or a multiple thereof.

Miniature Circuit-Breakers

High-Capacity Product Range

15 000
3 D'E

5SY7, 15 kA

	I_n A	MW	Characteristic C Order No.	Price 1 unit	PG	Characteristic D Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
									kg	Unit(s)
1-pole										
										
	0.3	1	5SY7 114-7	003	5SY7 114-8	004	0.165	1 unit		
	0.5		5SY7 105-7	003	5SY7 105-8	004	0.165	1 unit		
	1		5SY7 101-7	003	5SY7 101-8	004	0.165	1 unit		
	1.6		5SY7 115-7	003	5SY7 115-8	004	0.165	1 unit		
	2		5SY7 102-7	003	5SY7 102-8	004	0.165	1 unit		
	3		5SY7 103-7	003	5SY7 103-8	004	0.165	1 unit		
	4		5SY7 104-7	003	5SY7 104-8	004	0.165	1 unit		
	6		5SY7 106-7	003	5SY7 106-8	004	0.165	1 unit		
	8		5SY7 108-7	003	5SY7 108-8	004	0.165	1 unit		
	10		5SY7 110-7	003	5SY7 110-8	004	0.165	1 unit		
	13		5SY7 113-7	003	5SY7 113-8	004	0.165	1 unit		
	16		5SY7 116-7	003	5SY7 116-8	004	0.165	1 unit		
	20		5SY7 120-7	003	5SY7 120-8	004	0.165	1 unit		
	25		5SY7 125-7	003	5SY7 125-8	004	0.165	1 unit		
	32 ¹⁾		5SY7 132-7	003	5SY7 132-8	004	0.165	1 unit		
	40		5SY7 140-7	003	5SY7 140-8	004	0.165	1 unit		
	50		5SY7 150-7	003	5SY7 150-8	004	0.165	1 unit		
	63		5SY7 163-7	003	5SY7 163-8	004	0.165	1 unit		
1-pole + N										
										
	0.3	2	5SY7 514-7	003	5SY7 514-8	004	0.330	1 unit		
	0.5		5SY7 505-7	003	5SY7 505-8	004	0.330	1 unit		
	1		5SY7 501-7	003	5SY7 501-8	004	0.330	1 unit		
	1.6		5SY7 515-7	003	5SY7 515-8	004	0.330	1 unit		
	2		5SY7 502-7	003	5SY7 502-8	004	0.330	1 unit		
	3		5SY7 503-7	003	5SY7 503-8	004	0.330	1 unit		
	4		5SY7 504-7	003	5SY7 504-8	004	0.330	1 unit		
	6		5SY7 506-7	003	5SY7 506-8	004	0.330	1 unit		
	8		5SY7 508-7	003	5SY7 508-8	004	0.330	1 unit		
	10		5SY7 510-7	003	5SY7 510-8	004	0.330	1 unit		
	13		5SY7 513-7	003	5SY7 513-8	004	0.330	1 unit		
	16		5SY7 516-7	003	5SY7 516-8	004	0.330	1 unit		
	20		5SY7 520-7	003	5SY7 520-8	004	0.330	1 unit		
	25		5SY7 525-7	003	5SY7 525-8	004	0.330	1 unit		
	32		5SY7 532-7	003	5SY7 532-8	004	0.330	1 unit		
	40		5SY7 540-7	003	5SY7 540-8	004	0.330	1 unit		
	50		5SY7 550-7	003	5SY7 550-8	004	0.330	1 unit		
	63		5SY7 563-7	003	5SY7 563-8	004	0.330	1 unit		
2-pole										
										
	0.3	2	5SY7 214-7	003	5SY7 214-8	004	0.330	1 unit		
	0.5		5SY7 205-7	003	5SY7 205-8	004	0.330	1 unit		
	1		5SY7 201-7	003	5SY7 201-8	004	0.330	1 unit		
	1.6		5SY7 215-7	003	5SY7 215-8	004	0.330	1 unit		
	2		5SY7 202-7	003	5SY7 202-8	004	0.330	1 unit		
	3		5SY7 203-7	003	5SY7 203-8	004	0.330	1 unit		
	4		5SY7 204-7	003	5SY7 204-8	004	0.330	1 unit		
	6		5SY7 206-7	003	5SY7 206-8	004	0.330	1 unit		
	8		5SY7 208-7	003	5SY7 208-8	004	0.330	1 unit		
	10		5SY7 210-7	003	5SY7 210-8	004	0.330	1 unit		
	13		5SY7 213-7	003	5SY7 213-8	004	0.330	1 unit		
	16		5SY7 216-7	003	5SY7 216-8	004	0.330	1 unit		
	20		5SY7 220-7	003	5SY7 220-8	004	0.330	1 unit		
	25		5SY7 225-7	003	5SY7 225-8	004	0.330	1 unit		
	32		5SY7 232-7	003	5SY7 232-8	004	0.330	1 unit		
	40		5SY7 240-7	003	5SY7 240-8	004	0.330	1 unit		
	50		5SY7 250-7	003	5SY7 250-8	004	0.330	1 unit		
	63		5SY7 263-7	003	5SY7 263-8	004	0.330	1 unit		

Information and footer to this page and the previous page:

The 5SY7 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Applies only for 5SY7 132-6 and 5SY7 132-7:

Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

勝特力材料 886-3-5753170

胜特力电子(上海) 86-21-54151736

胜特力电子(深圳) 86-755-83298787

[Http://www.100y.com.tw](http://www.100y.com.tw)

	I_n A	MW	Characteristic C Order No.	Price 1 unit	PG	Characteristic D Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
3-pole										
	0.3	3	5SY7 314-7 	003	5SY7 314-8		004	0.495	1 unit	
	0.5		5SY7 305-7	003	5SY7 305-8		004	0.495	1 unit	
	1		5SY7 301-7	003	5SY7 301-8		004	0.495	1 unit	
	1.6		5SY7 315-7	003	5SY7 315-8		004	0.495	1 unit	
	2		5SY7 302-7	003	5SY7 302-8		004	0.495	1 unit	
	3		5SY7 303-7	003	5SY7 303-8		004	0.495	1 unit	
	4		5SY7 304-7	003	5SY7 304-8		004	0.495	1 unit	
	6		5SY7 306-7	003	5SY7 306-8		004	0.495	1 unit	
	8		5SY7 308-7	003	5SY7 308-8		004	0.495	1 unit	
	10		5SY7 310-7	003	5SY7 310-8		004	0.495	1 unit	
	13		5SY7 313-7	003	5SY7 313-8		004	0.495	1 unit	
	16		5SY7 316-7	003	5SY7 316-8		004	0.495	1 unit	
	20		5SY7 320-7	003	5SY7 320-8		004	0.495	1 unit	
	25		5SY7 325-7	003	5SY7 325-8		004	0.495	1 unit	
	32 ¹⁾		5SY7 332-7	003	5SY7 332-8		004	0.495	1 unit	
	40		5SY7 340-7	003	5SY7 340-8		004	0.495	1 unit	
	50		5SY7 350-7	003	5SY7 350-8		004	0.495	1 unit	
	63		5SY7 363-7	003	5SY7 363-8		004	0.495	1 unit	
3-pole + N										
	0.3	4	5SY7 614-7 	003	5SY7 614-8		004	0.660	1 unit	
	0.5		5SY7 605-7	003	5SY7 605-8		004	0.660	1 unit	
	1		5SY7 601-7	003	5SY7 601-8		004	0.660	1 unit	
	1.6		5SY7 615-7	003	5SY7 615-8		004	0.660	1 unit	
	2		5SY7 602-7	003	5SY7 602-8		004	0.660	1 unit	
	3		5SY7 603-7	003	5SY7 603-8		004	0.660	1 unit	
	4		5SY7 604-7	003	5SY7 604-8		004	0.660	1 unit	
	6		5SY7 606-7	003	5SY7 606-8		004	0.660	1 unit	
	8		5SY7 608-7	003	5SY7 608-8		004	0.660	1 unit	
	10		5SY7 610-7	003	5SY7 610-8		004	0.660	1 unit	
	13		5SY7 613-7	003	5SY7 613-8		004	0.660	1 unit	
	16		5SY7 616-7	003	5SY7 616-8		004	0.660	1 unit	
	20		5SY7 620-7	003	5SY7 620-8		004	0.660	1 unit	
	25		5SY7 625-7	003	5SY7 625-8		004	0.660	1 unit	
	32		5SY7 632-7	003	5SY7 632-8		004	0.660	1 unit	
	40		5SY7 640-7	003	5SY7 640-8		004	0.660	1 unit	
	50		5SY7 650-7	003	5SY7 650-8		004	0.660	1 unit	
	63		5SY7 663-7	003	5SY7 663-8		004	0.660	1 unit	
4-pole										
	0.3	4	5SY7 414-7 	003	5SY7 414-8		004	0.660	1 unit	
	0.5		5SY7 405-7	003	5SY7 405-8		004	0.660	1 unit	
	1		5SY7 401-7	003	5SY7 401-8		004	0.660	1 unit	
	1.6		5SY7 415-7	003	5SY7 415-8		004	0.660	1 unit	
	2		5SY7 402-7	003	5SY7 402-8		004	0.660	1 unit	
	3		5SY7 403-7	003	5SY7 403-8		004	0.660	1 unit	
	4		5SY7 404-7	003	5SY7 404-8		004	0.660	1 unit	
	6		5SY7 406-7	003	5SY7 406-8		004	0.660	1 unit	
	8		5SY7 408-7	003	5SY7 408-8		004	0.660	1 unit	
	10		5SY7 410-7	003	5SY7 410-8		004	0.660	1 unit	
	13		5SY7 413-7	003	5SY7 413-8		004	0.660	1 unit	
	16		5SY7 416-7	003	5SY7 416-8		004	0.660	1 unit	
	20		5SY7 420-7	003	5SY7 420-8		004	0.660	1 unit	
	25		5SY7 425-7	003	5SY7 425-8		004	0.660	1 unit	
	32		5SY7 432-7	003	5SY7 432-8		004	0.660	1 unit	
	40		5SY7 440-7	003	5SY7 440-8		004	0.660	1 unit	
	50		5SY7 450-7	003	5SY7 450-8		004	0.660	1 unit	
	63		5SY7 463-7	003	5SY7 463-8		004	0.660	1 unit	

The 5SY7 versions are certified according to UL 1077 and CSA 22.2 No. 235-M 89 and can be installed as "supplementary protectors" up to 277 V AC (1-pole, 1-pole + N) and 480 V AC (2-pole, 3-pole, 3-pole + N, 4-pole).

1) Applies only for 5SY7 332-7:

Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

勝特力材料 886-3-5753170

胜特力电子(上海) 86-21-54151736

胜特力电子(深圳) 86-755-83298787

[Http://www.100y.com.tw](http://www.100y.com.tw)

Miniature Circuit-Breakers

High-Capacity Product Range

5SY8, 25 kA

勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787

[Http://www.100y.com.tw](http://www.100y.com.tw)

Application

- U_{p} : 230/400 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole
- Standards: EN 60947-2, IEC 60947-2
- Additional components can be retrofitted.

Characteristic C

General line protection, especially advantageous with higher starting 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	Characteristic C		PG	Characteristic D		PG	Weight 1 unit approx.	PS*/P. unit
			Order No.	Price 1 unit		Order No.	Price 1 unit			
A								kg	Unit(s)	
1-pole										
	0.3	1	5SY8 114-7	003	5SY8 114-8	004	0.165	1 unit		
	0.5		5SY8 105-7	003	5SY8 105-8	004	0.165	1 unit		
	1		5SY8 101-7	003	5SY8 101-8	004	0.165	1 unit		
	1.6		5SY8 115-7	003	5SY8 115-8	004	0.165	1 unit		
	2		5SY8 102-7	003	5SY8 102-8	004	0.165	1 unit		
	3		5SY8 103-7	003	5SY8 103-8	004	0.165	1 unit		
	4		5SY8 104-7	003	5SY8 104-8	004	0.165	1 unit		
	6		5SY8 106-7	003	5SY8 106-8	004	0.165	1 unit		
	8		5SY8 108-7	003	5SY8 108-8	004	0.165	1 unit		
	10		5SY8 110-7	003	5SY8 110-8	004	0.165	1 unit		
	13		5SY8 113-7	003	5SY8 113-8	004	0.165	1 unit		
	16		5SY8 116-7	003	5SY8 116-8	004	0.165	1 unit		
	20		5SY8 120-7	003	5SY8 120-8	004	0.165	1 unit		
	25		5SY8 125-7	003	5SY8 125-8	004	0.165	1 unit		
	32 ¹⁾		5SY8 132-7	003	5SY8 132-8	004	0.165	1 unit		
	40		5SY8 140-7	003	5SY8 140-8	004	0.165	1 unit		
	50		5SY8 150-7	003	5SY8 150-8	004	0.165	1 unit		
	63		5SY8 163-7	003	5SY8 163-8	004	0.165	1 unit		
1-pole + N										
	0.3	2	5SY8 514-7	003	5SY8 514-8	004	0.330	1 unit		
	0.5		5SY8 505-7	003	5SY8 505-8	004	0.330	1 unit		
	1		5SY8 501-7	003	5SY8 501-8	004	0.330	1 unit		
	1.6		5SY8 515-7	003	5SY8 515-8	004	0.330	1 unit		
	2		5SY8 502-7	003	5SY8 502-8	004	0.330	1 unit		
	3		5SY8 503-7	003	5SY8 503-8	004	0.330	1 unit		
	4		5SY8 504-7	003	5SY8 504-8	004	0.330	1 unit		
	6		5SY8 506-7	003	5SY8 506-8	004	0.330	1 unit		
	8		5SY8 508-7	003	5SY8 508-8	004	0.330	1 unit		
	10		5SY8 510-7	003	5SY8 510-8	004	0.330	1 unit		
	13		5SY8 513-7	003	5SY8 513-8	004	0.330	1 unit		
	16		5SY8 516-7	003	5SY8 516-8	004	0.330	1 unit		
	20		5SY8 520-7	003	5SY8 520-8	004	0.330	1 unit		
	25		5SY8 525-7	003	5SY8 525-8	004	0.330	1 unit		
	32		5SY8 532-7	003	5SY8 532-8	004	0.330	1 unit		
	40		5SY8 540-7	003	5SY8 540-8	004	0.330	1 unit		
	50		5SY8 550-7	003	5SY8 550-8	004	0.330	1 unit		
	63		5SY8 563-7	003	5SY8 563-8	004	0.330	1 unit		
2-pole										
	0.3	2	5SY8 214-7	003	5SY8 214-8	004	0.330	1 unit		
	0.5		5SY8 205-7	003	5SY8 205-8	004	0.330	1 unit		
	1		5SY8 201-7	003	5SY8 201-8	004	0.330	1 unit		
	1.6		5SY8 215-7	003	5SY8 215-8	004	0.330	1 unit		
	2		5SY8 202-7	003	5SY8 202-8	004	0.330	1 unit		
	3		5SY8 203-7	003	5SY8 203-8	004	0.330	1 unit		
	4		5SY8 204-7	003	5SY8 204-8	004	0.330	1 unit		
	6		5SY8 206-7	003	5SY8 206-8	004	0.330	1 unit		
	8		5SY8 208-7	003	5SY8 208-8	004	0.330	1 unit		
	10		5SY8 210-7	003	5SY8 210-8	004	0.330	1 unit		
	13		5SY8 213-7	003	5SY8 213-8	004	0.330	1 unit		
	16		5SY8 216-7	003	5SY8 216-8	004	0.330	1 unit		
	20		5SY8 220-7	003	5SY8 220-8	004	0.330	1 unit		
	25		5SY8 225-7	003	5SY8 225-8	004	0.330	1 unit		
	32		5SY8 232-7	003	5SY8 232-8	004	0.330	1 unit		
	40		5SY8 240-7	003	5SY8 240-8	004	0.330	1 unit		
	50		5SY8 250-7	003	5SY8 250-8	004	0.330	1 unit		
	63		5SY8 263-7	003	5SY8 263-8	004	0.330	1 unit		

1) Applies only for 5SY8 132-7:

Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (e.g. hot water storage tank in non-continuous operation). For continuous load applications, the use of miniature circuit-breakers of characteristic C and $I_{\text{n}} = 40$ A is recommended.

* You can order this quantity or a multiple thereof.

I_n A	MW	Characteristic C Order No.	Price 1 unit	PG	Characteristic D Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
3-pole									
	0.3	3	5SY8 314-7 5SY8 305-7 5SY8 301-7 5SY8 315-7 5SY8 302-7 5SY8 303-7 5SY8 304-7 5SY8 306-7 5SY8 308-7 5SY8 310-7 5SY8 313-7 5SY8 316-7 5SY8 320-7 5SY8 325-7 5SY8 332-7 5SY8 340-7 5SY8 350-7 5SY8 363-7	003	5SY8 314-8 5SY8 305-8 5SY8 301-8 5SY8 315-8 5SY8 302-8 5SY8 303-8 5SY8 304-8 5SY8 306-8 5SY8 308-8 5SY8 310-8 5SY8 313-8 5SY8 316-8 5SY8 320-8 5SY8 325-8 5SY8 332-8 5SY8 340-8 5SY8 350-8 5SY8 363-8	004	0.495	1 unit	
	0.3	4	5SY8 614-7 5SY8 605-7 5SY8 601-7 5SY8 615-7 5SY8 602-7 5SY8 603-7 5SY8 604-7 5SY8 606-7 5SY8 608-7 5SY8 610-7 5SY8 613-7 5SY8 616-7 5SY8 620-7 5SY8 625-7 5SY8 632-7 5SY8 640-7 5SY8 650-7 5SY8 663-7	003	5SY8 614-8 5SY8 605-8 5SY8 601-8 5SY8 615-8 5SY8 602-8 5SY8 603-8 5SY8 604-8 5SY8 606-8 5SY8 608-8 5SY8 610-8 5SY8 613-8 5SY8 616-8 5SY8 620-8 5SY8 625-8 5SY8 632-8 5SY8 640-8 5SY8 650-8 5SY8 663-8	004	0.660	1 unit	
	0.3	4	5SY8 414-7 5SY8 405-7 5SY8 401-7 5SY8 415-7 5SY8 402-7 5SY8 403-7 5SY8 404-7 5SY8 406-7 5SY8 408-7 5SY8 410-7 5SY8 413-7 5SY8 416-7 5SY8 420-7 5SY8 425-7 5SY8 432-7 5SY8 440-7 5SY8 450-7 5SY8 463-7	003	5SY8 414-8 5SY8 405-8 5SY8 401-8 5SY8 415-8 5SY8 402-8 5SY8 403-8 5SY8 404-8 5SY8 406-8 5SY8 408-8 5SY8 410-8 5SY8 413-8 5SY8 416-8 5SY8 420-8 5SY8 425-8 5SY8 432-8 5SY8 440-8 5SY8 450-8 5SY8 463-8	004	0.660	1 unit	

1) Applies only for 5SY8 332-7:

Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (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.

Miniature Circuit-Breakers

AC/DC Product Range

10 000
3
D'E

5SY5, 10 kA

Application

- U_n : 230/400 V, 50 to 60 Hz, 220 V DC per pole, applicable in systems up to 250/440 V AC
 - 220 V DC: 1-pole
 - 440 V DC: 2-pole

- Standards: EN 60898, DIN VDE 0641 Part 11, IEC 60898
- Additional components can be retrofitted.

Selection and ordering data

	I_n A	MW	Characteristic B Order No.	Price 1 unit	PG	Characteristic C Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
1-pole										
						5SY5 114-7		003	0.165	1 unit
	0.3	1	--			5SY5 105-7		003	0.165	1 unit
	0.5		--			5SY5 101-7		003	0.147	1 unit
	1		--			5SY5 115-7		003	0.165	1 unit
	1.6		--		002	5SY5 102-7		003	0.165	1 unit
	2		5SY5 102-6			5SY5 103-7		003	0.165	1 unit
	3		--			5SY5 104-7		003	0.165	1 unit
	4		5SY5 104-6		002	5SY5 106-7		003	0.165	1 unit
	6		5SY5 106-6			5SY5 108-7		003	0.165	1 unit
	8		--			5SY5 110-6		002	0.165	1 unit
	10		5SY5 110-6			5SY5 113-6		002	0.165	1 unit
	13		5SY5 113-6			5SY5 116-6		002	0.165	1 unit
	16		5SY5 116-6			5SY5 120-6		002	0.165	1 unit
	20		5SY5 120-6			5SY5 125-6		002	0.165	1 unit
	25		5SY5 125-6			5SY5 132-6		002	0.165	1 unit
	32 ¹⁾		5SY5 132-6			5SY5 140-6		002	0.165	1 unit
	40		5SY5 140-6			5SY5 150-6		002	0.165	1 unit
	50		5SY5 150-6			5SY5 163-6		002	0.165	1 unit
	63		5SY5 163-6			5SY5 163-7		003	0.165	1 unit
2-pole										
						5SY5 214-7		003	0.330	1 unit
	0.3	2	--			5SY5 205-7		003	0.330	1 unit
	0.5		--			5SY5 201-7		003	0.330	1 unit
	1		--			5SY5 215-7		003	0.330	1 unit
	1.6		--			5SY5 202-7		003	0.330	1 unit
	2		--			5SY5 203-7		003	0.330	1 unit
	3		--			5SY5 204-7		003	0.330	1 unit
	4		--		002	5SY5 206-7		003	0.330	1 unit
	6		5SY5 206-6			5SY5 208-7		003	0.330	1 unit
	8		--			5SY5 210-6		002	0.330	1 unit
	10		5SY5 210-6			5SY5 213-6		002	0.330	1 unit
	13		5SY5 213-6			5SY5 216-6		002	0.330	1 unit
	16		5SY5 216-6			5SY5 220-6		002	0.330	1 unit
	20		5SY5 220-6			5SY5 225-6		002	0.330	1 unit
	25		5SY5 225-6			5SY5 232-6		002	0.330	1 unit
	32		5SY5 232-6			5SY5 240-6		002	0.330	1 unit
	40		5SY5 240-6			5SY5 250-6		002	0.330	1 unit
	50		5SY5 250-6			5SY5 263-6		002	0.330	1 unit
	63		5SY5 263-6			5SY5 263-7		003	0.330	1 unit

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

- 1) Also suitable for 21 kW active power at a 3-phase current of 400 V (e.g. continuous-flow water heater with short-time operation) and 7 kW active power at 230 V AC (e.g. hot water storage tank in non-continuous operation). For continuous load applications, we recommend using 5SY ...-6/-7 miniature circuit-breakers with $I_n = 40$ A.

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[Http://www.100y.com.tw](http://www.100y.com.tw)

* You can order this quantity or a multiple thereof.

Application

- U_{L} : 230/400 V, 50 to 60 Hz, can be used in systems up to 250/440 V AC, 60 V DC per pole
- Standards: EN 60898, IEC 60898, DIN VDE 0641 Part 11, EN 60204
- Additional components can be retrofitted individually.
- Main switch characteristics according to EN 60204

- Can be snapped onto standard mounting rail according to EN 60715
- Can be screwed onto base
- As main control and miniature circuit-breaker in non-residential and industrial buildings.

Selection and ordering data

	I_{n} A	MW	Characteristic B		PG	Characteristic C		PG	Characteristic D		PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
			Order No.	Price 1 unit		Order No.	Price 1 unit		Order No.	Price 1 unit			
1-pole													
	80 100 125	1.5	5SP4 180-6 5SP4 191-6 5SP4 192-6	002 002 002	5SP4 180-7 5SP4 191-7 5SP4 192-7	003 003 003	5SP4 180-8 5SP4 191-8				004 004	0.258 0.258 0.258	1 unit 1 unit 1 unit
2-pole													
	80 100 125	3	5SP4 280-6 5SP4 291-6 5SP4 292-6	002 002 002	5SP4 280-7 5SP4 291-7 5SP4 292-7	003 003 003	5SP4 280-8 5SP4 291-8				004 004 --	0.516 0.516 0.516	1 unit 1 unit 1 unit
3-pole													
	80 100 125	4.5	5SP4 380-6 5SP4 391-6 5SP4 392-6	002 002 002	5SP4 380-7 5SP4 391-7 5SP4 392-7	003 003 003	5SP4 380-8 5SP4 391-8				004 004 --	0.762 0.762 0.762	1 unit 1 unit 1 unit
4-pole													
	80 100 125	6	5SP4 480-6 5SP4 491-6 5SP4 492-6	002 002 002	5SP4 480-7 5SP4 491-7 5SP4 492-7	003 003 003	5SP4 480-8 5SP4 491-8				004 004 --	1.032 1.032 1.032	1 unit 1 unit 1 unit

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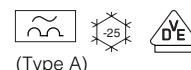
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Miniature Circuit-Breakers

Supplementary Components

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RC units for 5SY.

Benefits

- High flexibility in use
- Customer-end combination of characteristics from RC unit and circuit-breaker version
- In conjunction with a miniature circuit-breaker the combined protection of personnel and lines is possible

Application

- Personnel and fire protection
 - $I_{\Delta n} \leq 30$ mA: additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300$ mA: preventative fire protection in the case of ground fault currents

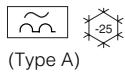
- Product standards: IEC/EN 61009-1 (VDE 0664, Part 20); IEC/EN 61009-2-1 (VDE 0664, Part 21); IEC/EN 61543 (VDE 0664, Part 30)
- Rated voltage for 2, 3 and 4-pole version: 230 to 400 V AC; 50 to 60 Hz; applicable in systems up to: 250/440 V AC
- Can be combined with miniature circuit-breakers of characteristic A, B, C and D
- Definition of surge current withstand capability with current waveform 8/20 μ s according to DIN VDE 0432, Part 2
- **S** S type: can be used as upstream group switch for selective tripping contrary to a downstream standard RCCB. Very high surge current withstand capability: > 5 kA
- **K** K type: short-time delayed tripping in the case of transient leakage currents. High surge current withstand capability: > 3 kA.

Selection and ordering data

	Rated fault current $I_{\Delta n}$ mA	Rated current I_n A	MW	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
							kg	Unit(s)	
Instantaneous tripping, surge current withstand capability > 1 kA¹⁾									
2-pole									
5SM2 121-6	10	0.3 ... 16	2				007	0.180	1 unit
	30	0.3 ... 40	2		5SM2 322-6		007	0.170	1 unit
	300				5SM2 622-6		007	0.170	1 unit
	30	0.3 ... 63			5SM2 325-6		007	0.170	1 unit
	300				5SM2 625-6		007	0.170	1 unit
	500				5SM2 725-6		007	0.350	1 unit
3-pole									
5SM2 332-6	30	0.3 ... 40	3				007	0.260	1 unit
	300				5SM2 632-6		007	0.260	1 unit
	30	0.3 ... 63			5SM2 335-6		007	0.260	1 unit
	300				5SM2 635-6		007	0.260	1 unit
	500				5SM2 735-6		007	0.260	1 unit
4-pole									
5SM2 342-6	30	0.3 ... 40	3				007	0.290	1 unit
	300				5SM2 642-6		007	0.290	1 unit
	30	0.3 ... 63			5SM2 345-6		007	0.290	1 unit
	300				5SM2 645-6		007	0.290	1 unit
	500				5SM2 745-6		007	0.290	1 unit
[K] Short-time delayed, surge current withstand capability > 3 kA¹⁾									
4-pole									
	30	0.3 ... 40	3	[K]	5SM2 342-6KK01		007	0.350	1 unit
		0.3 ... 63		[K]	5SM2 345-6KK01		007	0.350	1 unit
[S] Selective, surge current withstand capability > 5 kA¹⁾									
2-pole									
	300	0.3 ... 40	2	[S]	5SM2 622-8		007	0.170	1 unit
	300	0.3 ... 63		[S]	5SM2 625-8		007	0.170	1 unit
3-pole									
	300	0.3 ... 63	3	[S]	5SM2 635-8		007	0.260	1 unit
	500			[S]	5SM2 735-8		007	0.260	1 unit
	1 000			[S]	5SM2 835-8		007	0.260	1 unit
4-pole									
	300	0.3 ... 63	3	[S]	5SM2 645-8		007	0.290	1 unit
	500			[S]	5SM2 745-8		007	0.290	1 unit
	1 000			[S]	5SM2 845-8		007	0.290	1 unit

1) Not for 5SY6-KV and 5SY5.

* You can order this quantity or a multiple thereof.



(Type A)

Miniature Circuit-Breakers

Supplementary Components

RC units for 5SP4

Benefits

- High flexibility in use
- Customer-end combination of characteristics from RC unit and circuit-breaker version
- In conjunction with a miniature circuit-breaker the combined protection of personnel and lines is possible
- External remote tripping with terminals Y1/Y2.

Application

- Personnel and fire protection
 - $I_{\Delta n} \leq 30$ mA: Additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300$ mA: Preventative fire protection in the case of ground fault currents

- Product standards: IEC/EN 61009-1 (VDE 0664, Part 20); IEC/EN 61009-2-1 (VDE 0664, Part 21); IEC/EN 61543 (VDE 0664, Part 30)
- Rated voltage
 - 2-pole: 125 to 230 V AC; 50 to 60 Hz; can be used in systems up to 125/240 V AC
 - 4-pole: 230 to 400 V AC; 50 to 60 Hz; can be used in systems up to 230/400 V AC
- Can be combined with miniature circuit-breakers of characteristic B and C
- Definition of surge current withstand capability with current waveform 8/20 μ s according to DIN VDE 0432, Part 2
- **[S]** S type: Can be used as upstream group switch for selective tripping contrary to a downstream standard RCCB. Very high surge current withstand capability: > 5 kA.

Selection and ordering data

	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
Instantaneous tripping, surge current withstand capability > 1 kA									
2-pole			30 300	80 ... 100 3.5	5SM2 327-6 5SM2 627-6	007 007	0.410 0.410	1 unit 1 unit	
4-pole			30 300	80 ... 100 5	5SM2 347-6 5SM2 647-6	007 007	0.630 0.630	1 unit 1 unit	
[S] Selective, surge current withstand capability > 5 kA									
2-pole			300	80 ... 100	S 5SM2 627-8	007	0.410	1 unit	
4-pole			300 1 000	80 ... 100	S 5SM2 647-8 5SM2 847-8	007 007	0.630 0.630	1 unit 1 unit	

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* You can order this quantity or a multiple thereof.

Miniature Circuit-Breakers

Supplementary Components

**Auxiliary switches/fault signal contacts
for 5SY and 5SP4**

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Benefits

- Can be retrofitted individually (for mounting concept, see page 19/75)
- Mounting with factory-fitted brackets
- Short-circuit protection with miniature circuit-breakers of characteristic B or C and $I_h = 6\text{ A}$ or $gI_6\text{ A}$ fuses.
- Broad range of applications thanks to the additional version for controlling programmable controllers (PLC) according to EN 61131-2
- Connectable to instabus KNX EIB and AS-Interface bus through binary inputs.

Application

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

Design

Auxiliary switches (AS)

5ST3 013

5ST3 014

5ST3 015

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

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

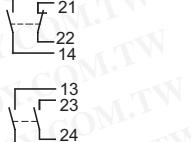
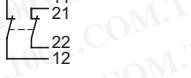
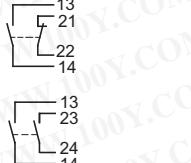
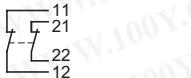
5ST3 0.0

5ST3 0.1

5ST3 0.2

- Min. contact load:
50 mA, 24 V
- Max. contact load:
NO contacts:
2 A, 400 V AC, AC-14
6 A, 230 V AC, AC-14
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 contacts:
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

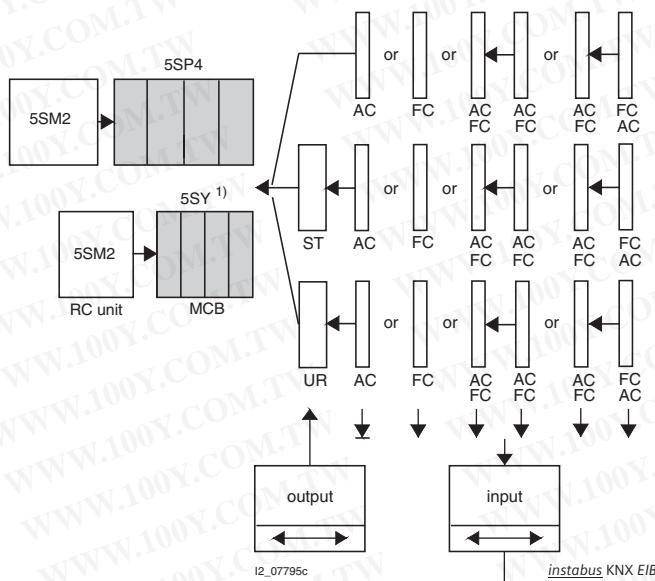
Selection and ordering data

Version	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Auxiliary switches (AS) for 5SY miniature circuit-breakers¹⁾						
	For small output	1 NO + 1 NC 0.5 5ST3 010 5ST3 013	027 027	0.050 0.050	1 unit 1 unit	
	For small output	2 NO 5ST3 011 5ST3 014	027 027	0.050 0.050	1 unit 1 unit	
	For small output	2 NC 5ST3 012 5ST3 015	027 027	0.050 0.050	1 unit 1 unit	
Fault signal contacts (FC) for 5SY miniature circuit-breakers¹⁾						
		1 NO + 1 NC 0.5 5ST3 020	027	0.050	1 unit	
		2 NO 5ST3 021	027	0.050	1 unit	
		2 NC 5ST3 022	027	0.050	1 unit	

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

Benefits

- Can be retrofitted individually (for mounting concept, see below)
- Mounting with factory-fitted brackets
- Can be mechanically latched and locked
- Further additional components can be attached
- Function switch on the front
- Connectable to *instabus KNX EIB* and AS-Interface bus through binary inputs and outputs
- $U_N = 230 \text{ V}$, 50 to 60 Hz

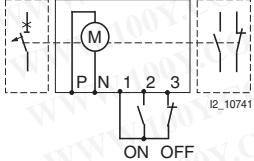


1) 5SY6: only AC and FC; 5SY5: no RC unit

Function

- ON/OFF remote control switching of miniature circuit-breaker and ON remote control switching of RC unit
- Remote ON switching possible following acknowledgment of fault occurrence
- Manual switching on-site possible
- Remote display of switching status of remote controlled operating mechanism and miniature circuit-breaker

Selection and ordering data

	Rated voltage U_n V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Remote-controlled operating mechanisms for 5SY¹⁾ and 5SP4 miniature circuit-breakers							
		230	3.5	5ST3 050	027	0.395	1 unit

For detailed application information, see Operator's Guide.

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

* You can order this quantity or a multiple thereof.

Miniature Circuit-Breakers

Supplementary Components

Shunt trips/undervoltage releases for 5SY and 5SP4

Benefits

Shunt trips

- Can be retrofitted individually (for mounting concept, see page 19/75)
- Response limits according to DIN VDE 0660 Part 100, 7.2.1.4
- For voltages:
110 to 415 V AC, 110 V DC
24 to 48 V AC/DC
- Can be connected to instabus KNX EIB and AS-Interface bus through binary outputs.

Undervoltage trip units

- Can be retrofitted individually (for mounting concept, see page 19/75)
- Response limits according to DIN VDE 0660 Part 100, 7.2.1.3
- For voltages:
230 V AC
110 V DC
24 V DC
- Can be connected to instabus KNX EIB and AS-Interface bus through binary outputs.

Application

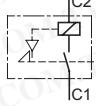
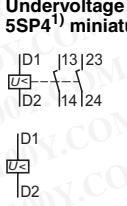
Shunt trips

- Remote tripping of the miniature circuit-breaker.

Undervoltage trip units

- Can be used as remote trip in an EMERGENCY-STOP loop
- Ensures disconnection of the control circuit according 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

	Rated voltage U_n	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
	Shunt trips (ST) for 5SY4, 5SY6, 5SY7, 5SY8, 5SY5, 5SP4¹⁾ miniature circuit-breakers 	110 ... 415 V AC 24 ... 48 V AC/DC	1 1	5ST3 030 5ST3 031	027 027	0.098 0.098	1 unit 1 unit
	Undervoltage releases (UR) for 5SY4, 5SY6, 5SY7, 5SY8, 5SY5, 5SP4¹⁾ miniature circuit-breakers 	230 V AC 110 V DC 24 V DC	1	5ST3 040 5ST3 041 5ST3 042	027 027 027	0.115 0.115 0.115	1 unit 1 unit 1 unit
		230 V AC 110 V DC 24 V DC	1	5ST3 043 5ST3 044 5ST3 045	027 027 027	0.115 0.115 0.115	1 unit 1 unit 1 unit

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

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Application

5ST3 7 busbar systems

- According to DIN 57606 and DIN 57659
- Load at infeed single-sided/in center
 - 50 A/90 A for 10 mm²
 - 65 A/120 A for 16 mm²
- Pin-type connections
- 1-phase and multi-phase
- Cu 10 mm², 16 mm² fully insulated
- Lug spacing: 18 mm
- No additional connection terminal required for stranded connections up to 35 mm²
- Excellent accessibility of the feeder cables

5ST3 6 busbar systems

- According to IEC 60664, 500 V (40 °C), fully insulated
- Load at infeed single-sided/in center
 - 50 A/90 A for 10 mm²
 - 65 A/120 A for 16 mm²

Application

- Pin-type connections
- Any length possible due to combination of 3 fixed busbar lengths
- Favorable current and temperature conduction due to overlapping of individual components
- No further need for time-consuming and tedious tasks, such as cutting, cutting to length, deburring, cleaning of cut surfaces and mounting of end caps
- Reliable touch protection for non-assigned connections

Selection and ordering data

	Length mm	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
5ST3 7 busbar systems for 5SJ6, 5SY6, 5SY4, 5SY7, 5SY8, 5SY5 miniature circuit-breakers						
Busbars 10 mm²						
Fully insulated						
1-phase	214	5ST3 730	027	0.040	1 unit	
1-phase + AS		5ST3 732	027	0.040	1 unit	
2-phase		5ST3 734	027	0.060	1 unit	
2-phase + AS		5ST3 736	027	0.060	1 unit	
3-phase		5ST3 738	027	0.100	1 unit	
3-phase + AS		5ST3 741	027	0.100	1 unit	
3 x (1-phase + AS)		5ST3 743	027	0.100	1 unit	
4-phase		5ST3 745	027	0.150	1 unit	
3-phase, for a 5SM3 4-pole RCCB with 8 miniature circuit-breakers						
3/N + 8 connections		5ST3 747	027	0.150	1 unit	
Without end caps						
1-phase	1016	5ST3 731	027	0.190	1 unit	
1-phase + AS		5ST3 733	027	0.190	1 unit	
2-phase		5ST3 735	027	0.290	1 unit	
2-phase + AS		5ST3 737	027	0.290	1 unit	
3-phase		5ST3 740	027	0.430	1 unit	
3-phase + AS		5ST3 742	027	0.430	1 unit	
3 x (1-phase + AS)		5ST3 744	027	0.430	1 unit	
4-phase		5ST3 746	027	0.700	1 unit	
Busbars 16 mm²						
Fully insulated						
1-phase	214	5ST3 700	027	0.040	1 unit	
1-phase + AS		5ST3 702	027	0.040	1 unit	
2-phase		5ST3 704	027	0.060	1 unit	
2-phase + AS		5ST3 706	027	0.060	1 unit	
3-phase		5ST3 708	027	0.100	1 unit	
3-phase + AS		5ST3 711	027	0.100	1 unit	
3 x (1-phase + AS)		5ST3 713	027	0.100	1 unit	
4-phase		5ST3 715	027	0.150	1 unit	
3-phase, for a 5SM3 4-pole RCCB with 8 miniature circuit-breakers						
3/N + 8 connections		5ST3 717	027	0.150	1 unit	
Without end caps						
1-phase	1016	5ST3 701	027	0.190	1 unit	
1-phase + AS		5ST3 703	027	0.190	1 unit	
2-phase		5ST3 705	027	0.290	1 unit	
2-phase + AS		5ST3 707	027	0.290	1 unit	
3-phase		5ST3 710	027	0.430	1 unit	
3-phase + AS		5ST3 712	027	0.430	1 unit	
3 x (1-phase + AS)		5ST3 714	027	0.430	1 unit	
4-phase		5ST3 716	027	0.700	1 unit	

AS: auxiliary circuit switch

* You can order this quantity or a multiple thereof.

Miniature Circuit-Breakers

Accessories

For 5SJ6, 5SY. and 5SP4

		Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)	
5ST3 7 busbar systems for 5SJ6, 5SY6, 5SY4, 5SY7, 5SY8, 5SY5 miniature circuit-breakers							
	End caps For lateral insulation of cut-to-length busbars 1-phase 2 and 3-phase 4-phase	5ST3 748 5ST3 750 5ST3 718	027 027 027	0.001 0.001 0.001	1 unit 1 unit 10 units		
5ST3 6 busbar systems for 5SJ6, 5SY6, 5SY4, 5SY7, 5SY8, 5SY5 miniature circuit-breakers							
	Busbars 10 mm² Fully insulated 1-phase 2 x 1-phase 6 x 1-phase 12 x 1-phase 2 x (1-phase + AS/FC) 6 x (1-phase + AS/FC) 9 x (1-phase + AS/FC) 2-phase 2 x 2-phase 3 x 2-phase 6 x 2-phase 2 x (2-phase + AS/FC) 3 x (2-phase + AS/FC) 5 x (2-phase + AS/FC) 3-phase 2 x 3-phase 3 x 3-phase 4 x 3-phase 2 x (3-phase + AS/FC) 4 x (3-phase + AS/FC) 2 x (3 x (1-phase) + AS/FC) ¹ 3 x (3 x (1-phase) + AS/FC) ¹ 4-phase 2 x 4-phase 3 x 4-phase 2 x 3 x (1-phase + N) ² 3-phase, for a 5SM3 4-pole RCCB with 8 miniature circuit-breakers 3/N + 8 connections	5ST3 600 5ST3 601 5ST3 602 5ST3 603 5ST3 604 5ST3 605 5ST3 606 5ST3 607 5ST3 608 5ST3 610 5ST3 611 5ST3 612 5ST3 613 5ST3 614 5ST3 615 5ST3 616 5ST3 617 5ST3 618 5ST3 620 5ST3 621 5ST3 622 5ST3 623 5ST3 624	027 027	0.005 0.018 0.036 0.008 0.024 0.036 0.016 0.024 0.048 0.020 0.030 0.050 0.039 0.060 0.076 0.040 0.080 0.044 0.066 0.051 0.078 0.078	1 unit 1 unit		
	Touch protection For free connections, yellow (RAL 1004)	5ST3 655	027	0.003	1 unit		
Assortments							
	20 x 5ST3 613 + 10 x 5ST3 614 + 50 x 5ST3 615 + 50 x 5ST3 655	5ST3 656	027	5.330	1 set 1 set		

AS: auxiliary circuit switch

FC: fault signal switch

1) 3 x (1-phase + AS/FC) \cong 3 x (L 1 + AS/FC, L 2 + AS/FC, L3 + AS/FC).

2) 3 x (1-phase + N) \cong 3 x (L 1 + N, L 2 + N, L3 + N).

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Miniature Circuit-Breakers

Accessories

For 5SJ6, 5SY. and 5SP4

		Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
5ST3 6 busbar systems for 5SJ6, 5SY6, 5SY4, 5SY7, 5SY8, 5SY5 miniature circuit-breakers						
	Busbars 16 mm²					
5ST3 643	Fully insulated					
	1-phase					
	2 x 1-phase					
	6 x 1-phase					
	12 x 1-phase					
	2 x (1-phase + AS/FC)					
	6 x (1-phase + AS/FC)					
	9 x (1-phase + AS/FC)					
	2-phase					
5ST3 644	2 x 2-phase					
	3 x 2-phase					
	6 x 2-phase					
	2 x (2-phase + AS/FC)					
5ST3 645	3 x (2-phase + AS/FC)					
	5 x (2-phase + AS/FC)					
	3-phase					
	2 x 3-phase					
	3 x 3-phase					
	4 x 3-phase					
	2 x (3-phase + AS/FC)					
	4 x (3-phase + AS/FC)					
	2 x (3 x (1-phase) + AS/FC) ¹⁾					
	3 x (3 x (1-phase) + AS/FC) ¹⁾					
	4-phase					
	2 x 4-phase					
	3 x 4-phase					
	2 x 3 x (1-phase + N) ²⁾					
	3-phase, for a 5SM3 4-pole RCCB with 8 miniature circuit-breakers					
	3/N + 8 connections					
	Touch protection					
	For free connections, yellow (RAL 1004)					
Assortments						
	20 x 5ST3 643 + 10 x 5ST3 644 + 50 x 5ST3 645 + 50 x 5ST3 655					
		5ST3 657			1 set	
			027	7.890	1 set	

AS: auxiliary circuit switch

FC: fault signal switch

1) 3 x (1-phase + AS/FC) \cong 3 x (L 1 + AS/FC, L 2 + AS/FC, L3 + AS/FC).

2) 3 x (1-phase + N) \cong 3 x (L 1 + N, L 2 + N, L3 + N).

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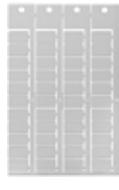
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Miniature Circuit-Breakers

Accessories

For 5SJ6, 5SY. and 5SP4

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Accessories for 5SJ6, 5SY6, 5SY4, 5SY7, 5SY8, 5SY5, 5SP4 miniature circuit-breakers						
	Terminal covers Can be used with all types of poles For additional covering of screw openings Prevents removal of the device from the standard mounting rail Sealable	5ST3 800		027	0.001	5 units
	Handle locking devices Can be used with all types of poles Prevents unintended on and off switching Sealable Padlock with a shackle of max. 3 mm	5ST3 801		027	0.008	1 unit
	Padlocks For 5ST3 801 handle locking device	5ST3 802		027	0.027	1 unit
	Locking devices Consisting of 5ST3 801 handle locking device and 5ST3 802 padlock	5ST3 803			1 set	
	Spacers Contour for modular devices with a mounting depth of 70 mm Can be snapped onto either side of the busbar so that two spacers allow for convenient cable routing	0.5	5TG8 240	027	0.010	2 units
	Snap-on terminals For 35 mm standard mounting rail For conductors up to 16 mm ² solid or conductors up to 10 mm ² stranded Width: 0.5 MW	5ST2 112		027	0.008	1 unit
	Fixing parts 1 MW (sheet metal) 4 MW (plastic)	5ST2 121 5ST2 201		027	0.017	1 unit
	Labeling plates (white) 15 mm x 9 mm, 3 frames containing 44 plates each Attachable to the lower casing collar • Self-adhesive • Inscription possible	5ST2 173		027	0.038	1 set
	Labeling systems The labeling program can be downloaded free of charge from: www.siemens.com/beta .				1 set	
	Recommended labels ELAT-3-747 can be ordered from: Brady GmbH Otto-Hahn-Str. 5-7 63222 Langen Tel: 06103/7598-660					

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Overview

Voltage-independent and selective main miniature circuit-breakers (SHU) according to DIN VDE 0645

Selective main miniature circuit-breakers are generally based on the function principle of ordinary miniature circuit-breakers and are equipped with a delayed thermal release for overload protection, as well as an electromagnetic fast release with an impact cutout blade for short-circuit protection.

In addition, they also comprise a selectivity device which detects whether or not the downstream miniature circuit-breaker in the load circuit is capable of independently coping with a short circuit. If it detects that this will exceed the capacity of the miniature circuit-breaker, the selective main miniature circuit-breaker will trip.

Regardless of the rated current of the SHU switch, this ensures a selectivity for downstream miniature circuit-breakers according to EN 60898 or DIN VDE 0641 Part 11, up to its rated short-circuit capacity.

6 000

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Furthermore, the selective main miniature circuit-breaker also offers a back-up protection of up to 25 kA to all downstream miniature circuit-breakers.

In the past, melting fuses installed at the meter panel were usually sealed in order to prevent the theft of power supplies.

Due to the various function principles and thus, the different characteristic curves, only limited short-circuit selectivity is possible in a cascade of upstream melting fuses and downstream miniature circuit-breakers. This selectivity also depends on the respective rated currents. This meant that, in the past, if a meter series fuse blew due to an overcurrent or a short circuit, it was necessary to contact the engineers of the power supply company to replace the sealed fuse as this could not be done by non-specialists.

However, the new selective main miniature circuit-breakers can be switched on again – even by non-specialists.

The new selective main miniature circuit-breakers offer the following advantages to system operators:

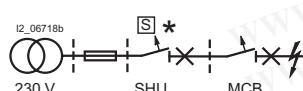
- Improved current limiting characteristics thanks to the selective main miniature circuit-breakers supporting downstream miniature circuit-breakers
- System-compatibility as no operation characteristics of other devices are influenced – apart from downstream miniature circuit-breakers
- High and safe selectivity between sub-distribution and meter panel
- Safe, fast and cost-favorable on-switching after failures – even by non-specialists
- Prevention of on-switching until the cause of the short-circuit cause has been eliminated
- Tariff monitoring function to assure network-compatible power consumption
- Insulation characteristics with contact position indication according to EN 60204

Application examples

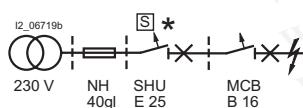
Selectivity towards downstream miniature circuit-breakers up to the rated short-circuit capacity

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3



Selectivity towards upstream fuses up to 2 000 A



Application

- U_n : 230/400 V, 50-60 Hz, can be used in systems up to 250/400 V AC
- Standards: DIN VDE 0645
- As main miniature circuit-breakers at the meter
- As group miniature circuit-breakers in distribution board applications
- Characteristic E:
Adapted to the special application requirements for cascade circuits between melting fuses and miniature circuit-breakers

At a glance

- Protection of insulated cables against overcurrents
- Disconnection of loads
- Assurance of network-compatible power consumption
- Can be switched on again after failures even by non-specialists
- Complies with defined selectivity requirements for upstream and downstream overcurrent protection devices
- Can be screwed onto mounting plates
- Can be clipped onto busbars using adapters
- Can be snapped onto standard mounting rails using mounting plates according to EN 60715

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Miniature Circuit-Breakers

Power Supply Company Product Range

5SP3, 25 kA
Accessories

Selection and ordering data

	I_n A	MW	Characteristic E Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit Unit(s)
Selective main miniature circuit-breakers							
	16	2	5SP3 716	005	0.550	1 unit	
	20		5SP3 720	005	0.550	1 unit	
	25		5SP3 725	005	0.550	1 unit	
	32		5SP3 732	005	0.550	1 unit	
	35		5SP3 735	005	0.550	1 unit	
	40		5SP3 740	005	0.550	1 unit	
	50		5SP3 750	005	0.550	1 unit	
	63		5SP3 763	005	0.550	1 unit	
	80		5SP3 780	005	0.550	1 unit	
	100		5SP3 791	005	0.550	1 unit	
Selective main miniature circuit-breakers							
	3 x 1-pole, premounted to 5ST1 324 busbar adapter; can be clipped onto busbar (spacing: 40 mm); including three 5ST1 323 transparent operation blocking covers						1 set
	16	6	5SP3 716-1	005	1.700	1 set	
	20		5SP3 720-1	005	1.700	1 set	
	25		5SP3 725-1	005	1.700	1 set	
	32		5SP3 732-1	005	1.700	1 set	
	35		5SP3 735-1	005	1.700	1 set	
	40		5SP3 740-1	005	1.700	1 set	
	50		5SP3 750-1	005	1.700	1 set	
	63		5SP3 763-1	005	1.700	1 set	
	80		5SP3 780-1	005	1.700	1 set	
	100		5SP3 791-1	005	1.700	1 set	
Accessories for main miniature circuit-breakers (SHU)				Order No.	Price 1 unit	PG	Weight 1 unit approx.
	Busbar adapters Suitable for a busbar spacing of 40 mm Can be equipped with 3 main miniature circuit-breakers For clip-on assembly			5ST1 328	005	0.234	1 unit
	Breaker blocking covers To prevent manual off-switching			5ST1 318	005	0.001	3 units
	Transparent operation blocking covers Multiple blocking options for preventing accidental and deliberate operation • With padlocks • With cross-tip screwdrivers • With special wrenches (Antilux) • For installation by the operator or the power supply company			5ST1 323	005	0.012	1 unit
	Terminal covers 2 units required per device For covering terminals within the overall dimensions according to DIN 43880			5ST1 316	005	0.001	6 units
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Residual Current Operated Circuit-Breakers

Introduction

Overview

Residual current operated circuit-breakers (RCCBs)



5SM3

- Type A
- $I_n = 16 \dots 125 \text{ A}$
- $I_{\Delta n} = 10 \text{ mA} \dots 1 \text{ A}$
- 2-pole (1 + N) and 4-pole (3 + N)
- N connection, right and left
- Versions **K** and **S**
- SIGRES for severe environmental conditions **i**
- Version for 500 V
- Version 50 ... 400 Hz

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SIQUENCE residual current operated circuit-breakers (RCCBs), AC/DC sensitive



5SM3

- Type B
- $I_n = 25 \dots 80 \text{ A}$
- $I_{\Delta n} = 30, 300 \text{ mA}$
- 4-pole (3 + N)
- Versions **K** and **S**
- Leakage current measurement unit

SIQUENCE RCCBs with integral overcurrent protection (RCBOs), AC/DC sensitive



5SU1

- Combined personnel and line protection
- Type B
- $I_n = 100, 125 \text{ A}$
- $I_{\Delta n} = 30, 300 \text{ mA}$
- MCB characteristic C, D
- Rated short-circuit capacity 10 kA
- 4-pole
- Version **K**

Residual-current circuit-breakers with integral overcurrent protection (RCBOs)



5SU1

- Combined personnel and line protection
- Type A
- $I_n = 6 \dots 40 \text{ A}$
- $I_{\Delta n} = 10 \dots 300 \text{ mA}$
- Circuit-breaker characteristics B and C
- Rated short-circuit capacity 6 kA and 10 kA
- 2-pole (1 + N)

RC units for miniature circuit-breakers



5SM2

- For mounting on miniature circuit-breakers
- Combined personnel and line protection
- Type A
- $I_n = 0.3 \dots 100 \text{ A}$
- $I_{\Delta n} = 10 \text{ mA} \dots 1 \text{ A}$
- 2, 3 and 4-pole
- Versions **K** and **S**

RC socket outlets



5SM1 and 5SZ2

- Can be retrofitted in existing installations
- Increased protection level
- Type A
- $I_n = 16 \text{ A}$
- $I_{\Delta n} = 10 \text{ and } 30 \text{ mA}$

Accessories



- Locking device
- Cu busbars
- Covers
- Wall enclosure

1 MW = 18 mm modular width

Residual Current Operated Circuit-Breakers

Residual Current Operated Circuit-Breakers (RCCBs)



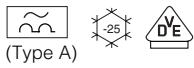
5SM3, type A, product overview

Overview

	Number of poles	Rated current I_n A	Rated residual current $I_{\Delta n}$ mA	MW	Mountable auxiliary switch	N connection Right	N connection Left
Residual current operated circuit-breakers, type A¹⁾, 16 ... 125 A							
Instantaneous tripping, surge current withstand capability > 1 kA	2	16 25 40	10, 30 30, 100, 300	2	• • •	• • •	-- -- --
	4	63 80 25 40	30, 100, 300 30, 300 30, 300 100, 500	2.5 4	• • • •	• • • •	-- -- • --
		63 80 125	30, 300 30, 300 30, 100, 300, 500		• • •	• • •	-- -- --
[K] Short-time delayed, surge current withstand capability > 3 kA	4	25 40 63	30 30, 100	4	• • •	• • •	-- -- --
[S] Selective, surge current withstand capability > 5 kA	2	63	100, 300	2.5	•	•	--
	4	40 63	100, 300 100, 1 000	4	• •	• •	-- --
		300 125	300, 500		•	•	--
SIGRES residual current operated circuit-breakers, type A¹⁾, for severe environmental conditions [i]							
Instantaneous tripping, surge current withstand capability > 1 kA	2	25 40	30	2	• •	• •	-- --
	4	63 80 25 40	30 30, 100 30 30, 300	2.5 4	• • • •	• • • •	-- -- -- --
[S] Selective, surge current withstand capability > 5 kA	4	63	300	4	•	•	--
Residual current operated circuit-breakers, type A¹⁾, 500 V							
Instantaneous tripping, surge current withstand capability > 1 kA	4	25 40 63	30, 300	4	• • •	• • •	-- -- --
Residual current operated circuit-breakers, type A¹⁾, 50 ... 400 Hz							
Instantaneous tripping, surge current withstand capability > 1 kA	4	25 40	30	4	• •	• •	-- --
Residual current operated circuit-breakers, type A¹⁾, 24 ... 125 V							
Instantaneous tripping, surge current withstand capability > 1 kA	2	16	30	2	•	•	--

1) = Type A for AC and pulsating DC residual currents

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Residual Current Operated Circuit-Breakers

Residual Current Operated Circuit-Breakers (RCCBs)

5SM3, Type A, 16 ... 125 A

Benefits

- Terminals with wire protection can be directly busbar-mounted with devices with terminals in the modular width, e.g. with 5SY miniature circuit-breakers.
- An auxiliary circuit switch can be fitted to the right-hand side of the enclosure by the customer.
- Operating handle and test button can be locked by means of a handle locking device.
- N connection on the left allows simple busbar mounting with pin busbars if the miniature circuit-breakers are fitted on the right.

Application

- Personnel and fire protection
 - $I_{\Delta n} \leq 30 \text{ mA}$: additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300 \text{ mA}$: preventative fire protection in the case of ground fault currents

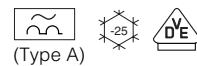
Selection and ordering data

Circuit diagram Max. permissible short-circuit series fuse	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	N connection, right	N connection, left	PG	Weight 1 unit approx.	PS*/ P. unit
				Order No.	Price 1 unit	Order No.	Price 1 unit	
Instantaneous tripping, surge current withstand capability > 1 kA								
	10 30 40 100 300	16 16 25 25 25 40 40	2	5SM3 111-6 5SM3 311-6 5SM3 312-6 5SM3 314-6 5SM3 412-6 5SM3 414-6 5SM3 612-6 5SM3 614-6	-- -- -- -- -- -- -- --	007 007 007 007 007 007 007 007	0.230 0.230 0.230 0.230 0.210 0.210	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit
	30 100 300	63 63 63 80 80	2.5	5SM3 316-6 5SM3 317-6 5SM3 416-6 5SM3 417-6 5SM3 616-6 5SM3 617-6	-- -- -- -- -- --	007 007 007 007 007 007	0.320 0.320 0.300 0.300 0.280 0.280	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit
	30 100 300	25 40 25 40 63 80	4	5SM3 342-6 5SM3 344-6 5SM3 346-6 5SM3 347-6 5SM3 444-6 5SM3 446-6 5SM3 642-6 5SM3 644-6 5SM3 646-6 5SM3 647-6 5SM3 742-6 5SM3 744-6 5SM3 746-6	-- -- -- -- -- -- -- -- -- -- -- -- --	007 007 007 007 007 007 007 007 007 007 007 007	0.500 0.500 0.500 0.500 0.460 0.460 0.440 0.440 0.440 0.440 0.440 0.440	1 unit 1 unit
	30 100 300 500	125	5SM3 345-6 5SM3 445-6 5SM3 645-6 5SM3 745-6	-- -- -- --	007 007 007 007	0.500 0.480 0.480 0.480	1 unit 1 unit 1 unit 1 unit	
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Residual Current Operated Circuit-Breakers

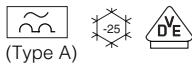
Residual Current Operated Circuit-Breakers (RCCBs)



5SM3, Type A, 16 ... 125 A

	Circuit diagram Max. permissible short-circuit series fuse	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	N connection, right	N connection, left	PG	Weight 1 unit approx.	PS*/P. unit
					Order No.	Price 1 unit			
[K] Short-time delayed, surge current withstand capability > 3 kA									
	230 ... 400 V AC; 50 ... 60 Hz; 4-pole 	30 30 100	25 40 63	4	5SM3 342-6KK01 5SM3 344-6KK01 5SM3 346-6KK01 5SM3 446-6KK01	-- -- -- --	007 007 007 007	0.500 0.500 0.500 0.460	1 unit 1 unit 1 unit 1 unit
[S] Selective, surge current withstand capability > 5 kA									
	125 ... 230 V AC; 50 ... 60 Hz; 2-pole 	100 300	63	2.5	5SM3 416-8 5SM3 616-8	-- --	007 007	0.300 0.280	1 unit 1 unit
230 ... 400 V AC; 50 ... 60 Hz; 4-pole									
	N connection, right N connection, right N connection, right N connection, right N connection, right 	100 300 1000	40 63 63	4	5SM3 444-8 5SM3 446-8 5SM3 644-8 5SM3 646-8 5SM3 846-8	-- -- -- -- --	007 007 007 007 007	0.460 0.460 0.440 0.440 0.515	1 unit 1 unit 1 unit 1 unit 1 unit
	N connection, left 	100 A	10 000						
	N connection, left 	300 500	125		5SM3 645-8 5SM3 745-8	-- --	007 007	0.480 0.480	1 unit 1 unit
	125 A 	125 A	10 000						

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Residual Current Operated Circuit-Breakers

Residual Current Operated Circuit-Breakers (RCCBs)

**5SM3, type A, SIGRES,
for severe environmental conditions **I**, 25 ... 80 A**

Benefits

- Our patented active condensation protection significantly increases endurance under harsh ambient conditions
- Terminals with wire protection can be directly busbar-mounted with devices in the modular width, e.g. with 5SY miniature circuit-breakers.
- An auxiliary circuit switch can be fitted to the right-hand side of the enclosure by the customer.
- Operating handle and test button can be locked by means of a handle locking device.

Application

- For use in areas with high levels of pollution gas and humidity, such as indoor swimming pools, in agriculture, construction distribution boards or in the chemical industry
- Personnel and fire protection
 - $I_{\Delta n} \leq 30$ mA: additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300$ mA: preventative fire protection in the case of ground fault currents
- Product standards: IEC/EN 61008-1 (VDE 0664, Part 10); IEC 61008-2-1 (VDE 0664, Part 11); IEC/EN 61543 (VDE 0664, Part 30)
- U_n 230/400 V; 50 to 60 Hz; can be used in systems up to: 240/415 V AC
- Definition of surge current withstand capability with current waveform 8/20 μ s according to DIN VDE 0432, Part 2
- S** S type: can be used as upstream group switch for selective tripping contrary to a downstream standard RCCB. Very high surge current withstand capability: > 5 kA.

Function

- Function of condensation protection with deactivated RCCBs through supply from below (terminals 2/N or 2/4/6/N).

Selection and ordering data

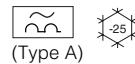
Circuit diagram	Maximum permissible short-circuit series fuse	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Ver- sion	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
I Instantaneous tripping, surge current withstand capability > 1 kA										
	125 ... 230 V AC; 50 ... 60 Hz; 2-pole	30	25 40	2	I	5SM3 312-6KK12 5SM3 314-6KK12	007 007	0.230 0.230	1 unit 1 unit	
		63	2.5 80		I	5SM3 316-6KK12 5SM3 317-6KK12	007 007	0.320 0.320	1 unit 1 unit	
	230 ... 400 V AC; 50 ... 60 Hz; 4-pole	30	25 40	4	I	5SM3 342-6KK12 5SM3 344-6KK12	007 007	0.500 0.500	1 unit 1 unit	
		63	80		I	5SM3 346-6KK12 5SM3 347-6KK12	007 007	0.500 0.500	1 unit 1 unit	
		300	40 63		I	5SM3 644-6KK12 5SM3 646-6KK12	007 007	0.440 0.440	1 unit 1 unit	
I, S Selective, surge current withstand capability > 5 kA										
	230 ... 400 V AC; 50 ... 60 Hz; 4-pole	300	63	4	I S	5SM3 646-8KK12	007	0.440	1 unit	

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* You can order this quantity or a multiple thereof.

Residual Current Operated Circuit-Breakers

Residual Current Operated Circuit-Breakers (RCCBs)



5SM3, type A, 500 V, 25 ... 63 A
5SM3, type A, 50 ... 400 Hz, 25 ... 40 A

Benefits

- Terminals with wire protection can be directly busbar-mounted with devices with terminals in the modular width, e.g. with 5SY miniature circuit-breakers.
- An auxiliary circuit switch can be fitted to the right-hand side of the enclosure by the customer
- Operating handle and test button can be locked by means of a handle locking device

Application

- Personnel and fire protection
 - $I_{\Delta n} \leq 30 \text{ mA}$: additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300 \text{ mA}$: preventative fire protection in the case of ground fault currents
- Product standards: IEC/EN 61008-1 (VDE 0664, Part 10); IEC 61008-2-1 (VDE 0664, Part 11); IEC/EN 61543 (VDE 0664, Part 30); VDE 0664 Part 101
- U_n 500 V; 50 to 60 Hz; can be used in systems up to: 500 V AC
- Definition of surge current withstand capability with current waveform 8/20 μs according to DIN VDE 0432, Part 2

Selection and ordering data

Circuit diagram	Maximum permissible short-circuit series fuse	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
Instantaneous tripping, surge current withstand capability > 1 kA										
		30	25	4		5SM3 352-6	007	0.500	1 unit	
		300	25			5SM3 354-6	007	0.500	1 unit	
			40			5SM3 356-6	007	0.500	1 unit	
			63			5SM3 652-6	007	0.440	1 unit	
						5SM3 654-6	007	0.440	1 unit	
						5SM3 656-6	007	0.440	1 unit	
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胜特力电子(深圳) 86-755-83298787										
Http://www.100y.com.tw										

Benefits

- Terminals with wire protection can be directly busbar-mounted with devices with terminals in the modular width, e.g. with 5SY miniature circuit-breakers.
- An auxiliary circuit switch can be fitted to the right-hand side of the enclosure by the customer
- Operating handle and test button can be locked by means of a handle locking device

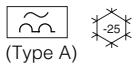
Application

- For use with line frequencies between 50 and 400 Hz
- Personnel and fire protection
 - $I_{\Delta n} \leq 30 \text{ mA}$: additional protection in the case of direct contact
- Product standards: IEC/EN 61008-1 (VDE 0664, Part 10); IEC 61008-2-1 (VDE 0664, Part 11); IEC/EN 61543 (VDE 0664, Part 30)
- U_n 230/400 V; 50 to 400 Hz; can be used in systems up to: 240/415 V AC
- Definition of surge current withstand capability with current waveform 8/20 μs according to DIN VDE 0432, Part 2

Selection and ordering data

Circuit diagram	Maximum permissible short-circuit series fuse	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
Instantaneous tripping, surge current withstand capability > 1 kA¹⁾										
		30	25	4		5SM3 342-6KK03	007	0.500	1 unit	
			40			5SM3 344-6KK03	007	0.500	1 unit	

1)



(Type A)

Residual Current Operated Circuit-Breakers

Residual Current Operated Circuit-Breakers (RCCBs)

5SM3, type A, 24 V, 16 A

Benefits

- Terminals with wire protection can be directly busbar-mounted with devices with terminals in the modular width, e.g. with 5SY miniature circuit-breakers.
- An auxiliary circuit switch can be fitted to the right-hand side of the enclosure by the customer.
- Operating handle and test button can be locked by means of a handle locking device.

Application

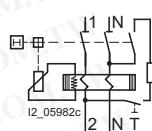
- For special applications (e.g. laboratories)
- Personnel and fire protection
- $I_{\Delta n} = 30 \text{ mA}$: additional protection in case of direct contact
- Product standards: IEC/EN 61008-1 (VDE 0664, Part 10); IEC 61008-2-1 (VDE 0664, Part 11); IEC/EN 61543 (VDE 0664, Part 30)
- U_n 24 to 125 V; 50 to 60 Hz; can be used in systems: 125 V AC
- Definition of surge current withstand capability with current waveform 8/20 μs to DIN VDE 0432, Part 2

Selection and ordering data

	Circuit diagram	Maximum permissible short-circuit series fuse	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Ver-	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
Instantaneous tripping, surge current withstand capability > 1 kA											



24 ... 125 V AC; 50 ... 60 Hz; 2-pole



30 16 2

5SM3 311-6KK13

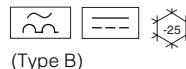
007 0.230 1 unit

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Residual Current Operated Circuit-Breakers

SIQUENCE RCCBs, AC/DC Sensitive



5SM3, type B, product overview

5SM3, type B, 25 ... 80 A

Overview

	Number of poles	Rated current I_n A	Rated residual current $I_{\Delta n}$ mA	MW	Mountable auxiliary switch	N connection
SIQUENCE residual current operated circuit-breakers, type B¹⁾, 25 ... 80 A						
[K] Short-time delayed, surge current withstand capability > 3 kA	4	25 40 63 80	30, 300	4	• • • •	• • • •
[S] Selective, surge current withstand capability > 5 kA	4	63 80	300	4	• •	• •

1) = Type B for AC fault currents, pulsating and smooth DC fault currents.

Benefits

- AC/DC sensitive: For detection of AC fault currents, pulsating and smooth DC residual currents
- Terminals with wire protection can be directly busbar-mounted with devices with terminals in the modular width, e.g. with 5SY miniature circuit-breakers.
- Increased operating safety in systems with capacitive impedances due to adapted tripping characteristic
- An auxiliary circuit switch can be fitted to the right-hand side of the enclosure by the customer.
- Operating handle and test button can be locked by means of a handle locking device.

Application

- Systems with equipment in which smooth DC fault currents can also arise (e.g. with B6 bridge circuit on frequency converters and medical equipment)
- Personnel and fire protection
 - $I_{\Delta n} \leq 30$ mA: additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300$ mA: preventative fire protection in the case of ground fault currents
- Product standards: IEC/EN 61008-1 (VDE 0664, Part 10); VDE 0664 Part 100; IEC/EN 61543 (VDE 0664, Part 30)
- For use in 3-phase current systems
- U_n 230/400 V; 50 to 60 Hz; can be used in systems up to: 240/415 V AC
- Definition of surge current withstand capability with current waveform 8/20 μ s according to DIN VDE 0432, Part 2
- [S] S type: can be used as upstream group switch for selective tripping compared with downstream standard RCCBs. Very high surge current withstand capability: > 5 kA.
- [K] K type: short-time delayed tripping in the case of transient leakage currents. High surge current withstand capability: > 3 kA.

Selection and ordering data

Circuit diagram	Maximum permissible short-circuit series fuse	Rated residual current	Rated current	MW	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
	$I_{\Delta n}$ mA	I_n A							kg	Unit(s)
[K] Short-time delayed, surge current withstand capability > 3 kA										
230 ... 400 V AC; 50 ... 60 Hz; 4-pole										
		30	25 40 63 80	4	[K]	5SM3 342-4 5SM3 344-4 5SM3 346-4 5SM3 347-4	008 008 008 008	0.520 0.520 0.520 0.520	1 unit 1 unit 1 unit 1 unit	
		300	25 40 63 80	4	[K]	5SM3 642-4 5SM3 644-4 5SM3 646-4 5SM3 647-4	008 008 008 008	0.520 0.520 0.520 0.520	1 unit 1 unit 1 unit 1 unit	
[S] Selective, surge current withstand capability > 5 kA										
		300	63 80	4	[S]	5SM3 646-5 5SM3 647-5	008 008	0.520 0.520	1 unit 1 unit	

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Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCCBs

Remote controlled operating mechanisms,
auxiliary switches for 5SM3

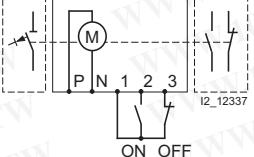
Benefits

- Can be retrofitted individually
- Mounting with factory-fitted brackets
- Can be mechanically latched and locked
- An auxiliary circuit switch can also be retrofitted to the remote controlled mechanism
- Function switch on the front
- Connectable to *instabus* KNX EIB and AS-Interface bus through binary inputs and outputs
- $U_n = 230$ V, 50 to 60 Hz

Function

- Remote ON/OFF switching of 5SM3 RCCBs (≤ 80 A)
- Remote ON switching possible following acknowledgment of fault occurrence
- Manual switching on-site possible
- Remote display of switching status of remote controlled mechanisms and RCCBs.

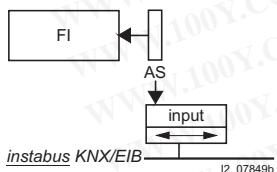
Selection and ordering data

	Rated voltage U_n V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Remote-controlled operating mechanisms for 5SM3 RCCBs (≤ 80 A)							
		230	3.5	5ST3 051	027	0.395	1 unit

For detailed application information, see Operator's Guide.

Benefits

- An auxiliary circuit switch can be fitted to the right-hand side of the RCCB enclosure by the customer
- Mounting with factory-fitted brackets
- Can be connected to *instabus* KNX EIB and AS-Interface bus or PROFIBUS through binary inputs.



Application

- Indications of the circuit state of the RCCB: ON/OFF
- Short-circuit protection ensured by miniature circuit-breakers of characteristic B or C with $I_h = 6$ A or fuse gL 6 A
- Product standards: IEC/EN 62019 (VDE 0640)

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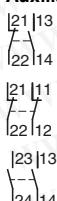
Selection and ordering data

Circuit diagram	Version	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
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Auxiliary circuit switches (AS) on RCCB for 5SM3 up to 80 A



Auxiliary switches (AS)



1 NO + 1 NC

0.5

5SW3 300

008

0.042

1 unit

2 NC

0.5

5SW3 301

008

0.042

1 unit

2 NO

0.5

5SW3 302

008

0.042

1 unit

Auxiliary circuit switches (AS) on RCCBs for 5SM3, 125 A



Auxiliary switches (AS)



1 NO + 1 NC

0.5

5SW3 330

008

0.040

1 unit

* You can order this quantity or a multiple thereof.

Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCCBs

Accessories for 5SM3

Accessories

Version	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
 	Covers for connection terminals For residual current operated circuit-breakers up to 80 A Sealable (2 parts in plastic bag) 2 MW 2.5 MW 4 MW	5SW3 010 5SW3 011 5SW3 008	008 008 008	0.003 0.004 0.006	1 unit 1 unit 1 unit
	Locking devices For RCCBs up to 80 A Sealable and lockable 4.5 mm lock hasp diameter	5SW3 303	008	0.008	1 unit
	Padlocks For 5SW3 303 locking device Locking devices with padlock Consists of 5SW3 303 locking device and 5ST3 802 padlock	5ST3 802 5SW3 312	027 008	0.027 0.035	1 unit 1 set 1 set

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Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCCBs

Accessories for 5SM3

Version	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Cu busbars 10 mm²					
For the busbar mounting of RCCBs					
Fully insulated					
2-phase					
2 x 2-phase	5ST3 606	027	0.016	1 unit	
3 x 2-phase	5ST3 607	027	0.024	1 unit	
6 x 2-phase	5ST3 608	027	0.048	1 unit	
2 x (2-phase + AS)	5ST3 610	027	0.020	1 unit	
3 x (2-phase + AS)	5ST3 611	027	0.030	1 unit	
5 x (2-phase + AS)	5ST3 612	027	0.050	1 unit	
3-phase					
2 x 3-phase	5ST3 613	027	0.039	1 unit	
3 x 3-phase	5ST3 614	027	0.060	1 unit	
4 x 3-phase	5ST3 615	027	0.076	1 unit	
2 x (3-phase + AS)	5ST3 616	027	0.040	1 unit	
4 x (3-phase + AS)	5ST3 617	027	0.080	1 unit	
3-phase + N					
2 x 3-phase + N	5ST3 621	027	0.051	1 unit	
3 x 3-phase + N	5ST3 622	027	0.078	1 unit	
3-phase, for a 5SM3 4-pole RCCB with 8 miniature circuit-breakers					
3/N + 8 connections	5ST3 624	027	0.075	1 unit	
Without end caps					
Length 1016 mm					
2-phase					
2-phase + AS	5ST3 735	027	0.290	1 unit	
3-phase	5ST3 737	027	0.290	1 unit	
	5ST3 740	027	0.430	1 unit	
Cu busbars 16 mm²					
For the busbar mounting of RCCBs					
Fully insulated					
2-phase					
2 x 2-phase	5ST3 636	027	0.024	1 unit	
3 x 2-phase	5ST3 637	027	0.039	1 unit	
6 x 2-phase	5ST3 638	027	0.076	1 unit	
2 x (2-phase + AS)	5ST3 640	027	0.026	1 unit	
3 x (2-phase + AS)	5ST3 641	027	0.045	1 unit	
5 x (2-phase + AS)	5ST3 642	027	0.084	1 unit	
3-phase					
2 x 3-phase	5ST3 643	027	0.058	1 unit	
3 x 3-phase	5ST3 644	027	0.083	1 unit	
4 x 3-phase	5ST3 645	027	0.110	1 unit	
2 x (3-phase + AS)	5ST3 646	027	0.060	1 unit	
4 x (3-phase + AS)	5ST3 647	027	0.120	1 unit	
3-phase + N					
2 x 3-phase + N	5ST3 651	027	0.080	1 unit	
3 x 3-phase + N	5ST3 652	027	0.116	1 unit	
3-phase, for a 5SM3 4-pole RCCB with 8 miniature circuit-breakers					
3/N + 8 connections	5ST3 654	027	0.114	1 unit	
Without end caps					
Length 1016 mm					
2-phase					
2-phase + AS	5ST3 705	027	0.290	1 unit	
3-phase	5ST3 707	027	0.290	1 unit	
	5ST3 710	027	0.430	1 unit	
End caps					
For lateral insulation of cut-to-length busbars	2 and 3-phase	5ST3 750		0.001	1 unit
Touch protection					
For free connections, yellow (RAL 1004)		5ST3 655	027	0.003	1 unit

For more busbar versions,
see Accessories for Miniature Circuit-Breakers.

AS: auxiliary circuit switch

Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCCBs

5SM1 930 leakage current measurement units

Benefits

- The leakage current measurement unit enables systematic selection of the rated residual current for the RCCB, thus preventing accidental trippings. The measured leakage current should be a maximum of 1/3 of the rated residual current of the RCCB. If this condition is not met due to the rated current required to protect the RCCB, remedial action must be taken at the equipment that generates the leakage current.
- The detection of causes for the unintended tripping of the RCCB is considerably simplified, especially with regard to large systems.
- Matching of measuring curve, particularly on residual current operated circuit-breakers, universal current sensitive (Type B)
- Mounting depth 55 mm

Application

- Rated voltage: up to 500 V AC; 50 to 60 Hz
- For measuring leakage currents of up to 300 mA in electrical systems
- Using the enclosed calibration curve, a voltmeter with an internal resistance of $> 1 \text{ M}\Omega/\text{V}$ can determine the leakage current. Measuring range for AC voltage: U_{rms} : 1 mV to 2 V

Selection and ordering data

Circuit diagram	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
5SM1 930 leakage current measurement units								
	500 V AC; 50 ... 60 Hz; 4-pole 	0 ... 300	63	4	5SM1 930-0	008	0.430	1 unit

Gossen-Metrawatt offers suitable test devices for RCCB function tests and for testing protective measures.

Information is available at:

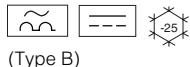
Gossen-Metrawatt GmbH,
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(Type B)

Residual Current Operated Circuit-Breakers

SIQUENCE RCCBs with Integral Overcurrent Protection (RCBOs), AC/DC Sensitive

5SU1, type B, product overview
5SU1, type B, 100 ... 125 A

Overview

	Number of poles	Rated current I_n A	Rated fault current $I_{\Delta n}$ mA	MW	Additional components can be retrofitted
SIQUENCE RCBO, type B¹⁾, 100 ... 125 A					
Short-time delayed tripping, surge current withstand capability > 3kA					
Rated short-circuit capacity 10 kA					
• Rated voltage 400 V AC Characteristic C	10 000	4	100 125	30, 300	11
• Rated voltage 400 V AC Characteristic D	10 000	4	100	30, 300	11
• Rated voltage 480 V AC Characteristic C	10 000	4	100 125	300	11

1) = Type B for AC fault currents, pulsating and smooth DC fault currents

Benefits

- AC/DC sensitive: For detection of AC fault currents, pulsating and smooth DC residual currents
- Time-saving wiring and simplified device coordination thanks to RCCBs for combined personnel and line protection in a single device
- Increased operating safety in systems with capacitive impedances due to adapted tripping characteristic
- Additional components can be retrofitted by the customer
- External remote tripping over Y1/Y2 terminals

Application

- Systems with equipment in which smooth DC fault currents can also arise (e.g. with B6 bridge circuit on frequency converters and medical equipment)
- Product standards: IEC/EN 61009-1 (VDE 0664, Part 10); VDE 0664 Part 200; IEC/EN 61543 (VDE 0664, Part 30)
- For use in 3-phase current systems
- $U_n = 400$ V or $U_n = 480$ V; 50 ... 60 Hz
- Definition of surge current withstand capability with current waveform 8/20 μ s according to DIN VDE 0432 Part 2
- K** K type: short-time delayed tripping in the case of transient leakage currents. High surge current withstand capability: > 3kA

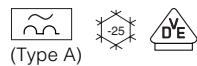
Selection and ordering data

Circuit diagram Max. permissible short-circuit series fuse	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	MCB characteristic C Order No.	MCB characteristic D Order No.	PG	Weight 1 unit approx.	PS*/ P. unit
K Short-time delayed, surge current withstand capability > 3 kA								
	10 000	30 100 125 300 100 125	11	5SU1 374-7AK81 5SU1 374-7AK82 5SU1 674-7AK81 5SU1 674-7AK82	5SU1 374-8AK81 -- 5SU1 674-8AK81 --	011 011 011 011	1.950 1.950 1.950 1.950	1 unit 1 unit 1 unit 1 unit
	10 000	300 100 125	11	5SU1 674-7CK81 5SU1 674-7CK82	-- --	011 011	1.950 1.950	1 unit 1 unit
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* You can order this quantity or a multiple thereof.

Residual Current Operated Circuit-Breakers

RCCBs with Integral Overcurrent Protection (RCBOs)



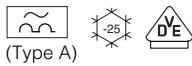
5SU1, type A, product overview

Overview

	Number of poles	Rated current I_n A	Rated fault current $I_{\Delta n}$ mA	MW	Additional components can be retrofitted
RCBOs, type A¹⁾, 6 ... 40 A					
Instantaneous tripping, surge current withstand capability > 1 kA					
Rated short-circuit capacity 6 kA	6 000	2	6 8 10 13 16 20 25 32 40	30, 300 30 30, 300	2
• Characteristic B and C	[3]				• • • • • • • • •
Rated short-circuit capacity 10 kA	10 000	2	6 8 10 13 16 20 25 32 40	10, 30, 300 30 10, 30, 300 30, 300	2
• Characteristic B and C	[3]				• • • • • • • • •

1) = Type A for AC and pulsating DC residual currents

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Residual Current Operated Circuit-Breakers

RCCBs with Integral Overcurrent Protection (RCBOs)

5SU1, type A, 6 ... 40 A

Benefits

- Compact device version for personnel and line protection
- Simplified device co-ordination thanks to unit comprising residual current operated circuit-breaker (RCCB) and miniature circuit-breaker
- Saves time with wiring
- Maximum plant availability thanks to assignment of a device to a specific electrical circuit
- Excellent current limiting and selectivity characteristics
- Combination terminal for simultaneous connection of pin busbars and feeder cables
- Simple connection of feeder cables due to rear relocation of busbar connection
- Identical terminals at both sides for optional infeed from the top or the bottom
- Operating handle and test button can be locked by means of a handle locking device
- Customers can retrofit additional components to the miniature circuit-breakers for additional uses

Additional features of the 10 kA version:

- Reach-round protection exceeds requirements according to BGV A2
- No tools required for standard rail mounting or dismounting
- Separate switching position indicator

Application

- Personnel and fire protection
 - $I_{\Delta n} \leq 30 \text{ mA}$: additional protection in the case of direct contact
 - $I_{\Delta n} \leq 300 \text{ mA}$: preventative fire protection in the case of ground fault currents
- Cable and line protection against overload and short-circuits
- Product standards: IEC/EN 61009-1 (VDE 0664, Part 20); IEC/EN 61009-2-1 (VDE 0664, Part 21); IEC/EN 61543 (VDE 0664, Part 30)
- $U_n = 230 \text{ V}; 50 \dots 60 \text{ Hz}$
- Miniature circuit-breaker characteristic B or C
- Definition of surge current withstand capability with current waveform 8/20 μs according to DIN VDE 0432, Part 2

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Selection and ordering data

Circuit diagram Max. permissible short-circuit series fuse	Rated residual current	Rated current	MW	MCB characteristic B		MCB characteristic C		PG	Weight 1 unit approx.	PS*/ P. unit
				Order No.	Price 1 unit	Order No.	Price 1 unit			

Instantaneous tripping, surge current withstand capability > 1 kA



230 V AC; 50 ... 60 Hz; 1-pole + N

30	6	2	5SU1 356-6KK06	5SU1 356-7KK06	011	0.260	1 unit
	8		--	5SU1 356-7KK08	011	0.260	1 unit
	10		5SU1 356-6KK10	5SU1 356-7KK10	011	0.260	1 unit
	13		5SU1 356-6KK13	5SU1 356-7KK13	011	0.260	1 unit
	16		5SU1 356-6KK16	5SU1 356-7KK16	011	0.260	1 unit
	20		5SU1 356-6KK20	5SU1 356-7KK20	011	0.260	1 unit
	25		5SU1 356-6KK25	5SU1 356-7KK25	011	0.260	1 unit
	32		5SU1 356-6KK32	5SU1 356-7KK32	011	0.260	1 unit
	40		5SU1 356-6KK40	5SU1 356-7KK40	011	0.260	1 unit
300	6	2	5SU1 656-6KK06	5SU1 656-7KK06	011	0.260	1 unit
	10		5SU1 656-6KK10	5SU1 656-7KK10	011	0.260	1 unit
	13		5SU1 656-6KK13	5SU1 656-7KK13	011	0.260	1 unit
	16		5SU1 656-6KK16	5SU1 656-7KK16	011	0.260	1 unit
	20		5SU1 656-6KK20	5SU1 656-7KK20	011	0.260	1 unit
	25		5SU1 656-6KK25	5SU1 656-7KK25	011	0.260	1 unit
	32		5SU1 656-6KK32	5SU1 656-7KK32	011	0.260	1 unit
	40		5SU1 656-6KK40	5SU1 656-7KK40	011	0.260	1 unit



230 V AC; 50 ... 60 Hz; 2- (1 + N)-pole

10	6	2	5SU1 154-6KK06	5SU1 154-7KK06	011	0.260	1 unit
	10		5SU1 154-6KK10	5SU1 154-7KK10	011	0.260	1 unit
	13		5SU1 154-6KK13	5SU1 154-7KK13	011	0.260	1 unit
	16		5SU1 154-6KK16	5SU1 154-7KK16	011	0.260	1 unit
	20		5SU1 354-6KK06	5SU1 354-7KK06	011	0.260	1 unit
	8		--	5SU1 354-7KK08	011	0.260	1 unit
	10		5SU1 354-6KK10	5SU1 354-7KK10	011	0.260	1 unit
	13		5SU1 354-6KK13	5SU1 354-7KK13	011	0.260	1 unit
	16		5SU1 354-6KK16	5SU1 354-7KK16	011	0.260	1 unit
	20		5SU1 354-6KK20	5SU1 354-7KK20	011	0.260	1 unit
	25		5SU1 354-6KK25	5SU1 354-7KK25	011	0.260	1 unit
	32		5SU1 354-6KK32	5SU1 354-7KK32	011	0.260	1 unit
	40		5SU1 354-6KK40	5SU1 354-7KK40	011	0.260	1 unit
300	6	2	5SU1 654-6KK06	5SU1 654-7KK06	011	0.260	1 unit
	10		5SU1 654-6KK10	5SU1 654-7KK10	011	0.260	1 unit
	13		5SU1 654-6KK13	5SU1 654-7KK13	011	0.260	1 unit
	16		5SU1 654-6KK16	5SU1 654-7KK16	011	0.260	1 unit
	20		5SU1 654-6KK20	5SU1 654-7KK20	011	0.260	1 unit
	25		5SU1 654-6KK25	5SU1 654-7KK25	011	0.260	1 unit
	32		5SU1 654-6KK32	5SU1 654-7KK32	011	0.260	1 unit
	40		5SU1 654-6KK40	5SU1 654-7KK40	011	0.260	1 unit

* You can order this quantity or a multiple thereof.

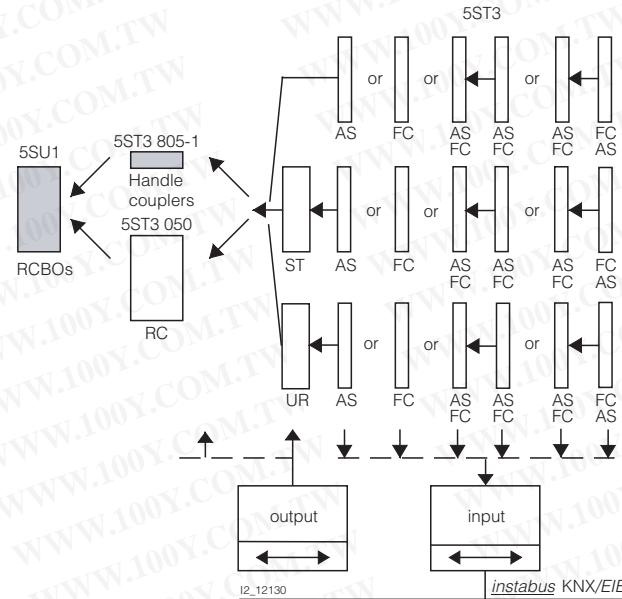
Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCBOs

Remote controlled mechanisms for 5SU1

Benefits

- Can be retrofitted individually (see Mounting Concept)
- Mounting with factory-fitted brackets
- Can be mechanically latched and locked
- Further additional components can be attached
- Function switch on the front
- $U_N = 230 \text{ V}$, 50 to 60 Hz
- Additional components are identical to those for 5SY miniature circuit-breakers.

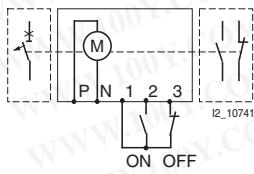


1) Not for 5SY6...-KV

Function

- Remote ON/OFF switching of the RCBO.
- Remote ON switching possible following acknowledgment of fault occurrence
- Manual switching on-site possible
- Remote display of switching status of remote controlled mechanisms and RCBOs.

Selection and ordering data

	Rated voltage U_n V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit	PS*/ P. unit
Remote-controlled operating mechanisms for 5SU1 RCBO							
 	230	3.5	5ST3 050	027	0.395	1 unit	

For detailed application information, see Operator's Guide.

Mounting concept

Using this mounting concept, all additional 5ST3 components can be combined with miniature circuit-breakers of the 5SY¹⁾ and 5SP4 series and the 5SU1 RCBO series:

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Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCBOs

Auxiliary circuit switches/fault signal contacts for 5SU1

Benefits

- Can be retrofitted individually (see Mounting Concept)
- Mounting with factory-fitted brackets
- Short-circuit protection with miniature circuit-breakers of characteristic B or C and $I_n = 6\text{ A}$ or $gL\ 6\text{ A}$ fuses.
- Wide range of applications due to additional version for controlling programmable controllers (PLCs) according to EN 61131-2
- Can be connected to instabus KNX E/B and AS-Interface bus over binary inputs.

Application

- Indication of the switching state of the RCBO
 - AS: ON/OFF
 - FC: tripped.

Selection and ordering data

Version	MW	Order No.	Price 1 unit	PG	Weight 1 unit	PS*/ P. unit Unit(s)
Auxiliary switches (AS) for 5SU1....KK.. RCBOs¹⁾						
	For small output	1 NO + 1 NC 0.5	5ST3 010 5ST3 013	027	0.050	1 unit
				027	0.050	1 unit
	For small output	2 NO	5ST3 011 5ST3 014	027	0.050	1 unit
	For small output	2 NC	5ST3 012 5ST3 015	027	0.050	1 unit
	Fault signal contacts (FC) for 5SU1....KK.. RCBOs¹⁾		0.5	5ST3 020	0.050	1 unit
				027	0.050	1 unit
	2 NO		5ST3 021	027	0.050	1 unit
	2 NC		5ST3 022	027	0.050	1 unit

1) Also required: 5ST3 805-1 handle coupler.

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Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCBOs

Shunt trips/undervoltage releases, handle couplers for 5SU1

Benefits

Shunt trips

- Can be retrofitted individually (see Mounting Concept)
- Response limits according to DIN VDE 0660 Part 100, 7.2.1.4
- For voltages:
110 to 415 V AC, 110 V DC
24 to 48 V AC/DC
- Can be connected to
instabus KNX EIB and AS-Interface bus through binary outputs.

Undervoltage trip units

- Can be retrofitted individually (see Mounting Concept)
- Response limits according to DIN VDE 0660 Part 100, 7.2.1.3
- For voltages:
230 V AC
110 V DC
24 V DC
- Can be connected to
instabus KNX EIB and AS-Interface bus through binary outputs.

Application

Shunt trips

- Remote tripping of the RCBO.

Undervoltage trip units

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

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Selection and ordering data

	Rated voltage <i>U_n</i>	MW	Order No.	Price 1 unit	PG	Weight 1 unit	PS*/ P. unit
					kg	Unit(s)	
Shunt trips (ST) for 5SU1...-KK. RCBOs¹⁾							
	110 ... 415 V AC 24 ... 48 V AC/DC	1 1	5ST3 030 5ST3 031		027 027	0.098 0.098	1 unit 1 unit
Undervoltage releases (UR) for 5SU1...-KK.. RCBOs¹⁾							
	230 V AC 110 V DC 24 V DC 230 V AC 110 V DC 24 V DC	1 1	5ST3 040 5ST3 041 5ST3 042 5ST3 043 5ST3 044 5ST3 045		027 027 027 027 027 027	0.115 0.115 0.115 0.115 0.115 0.115	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit

1) Also required: 5ST3 805-1 handle coupler.

	Order No.	Price 1 unit	PG	Weight 1 unit	PS*/ P. unit
				kg	Unit(s)
Handle couplers for additional components					
	5ST3 805-1			1 set	
For mounting the additional components: auxiliary switches, fault signal contacts, shunt trips and undervoltage releases onto 5SU1 ...-KK.. RCBOs, you require a handle coupler. 1 set = 5 units				027	0.008

Residual Current Operated Circuit-Breakers

Supplementary Components/Accessories for RCBOs

Accessories for 5SU1

Accessories

Version	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
	Locking devices For 5SU1 ...-KK.. RCBOs Sealable and lockable 4.5 mm lock hasp diameter	5ST3 801-1	027	0.010	1 unit
	Padlocks For 5ST3 801-1 locking device	5ST3 802	027	0.027	1 unit
	Cu busbars 10 mm² For busbar mounting 5SU1 ...-KK.. RCBOs together Fully insulated 2-phase 2 x 2-phase 3 x 2-phase 6 x 2-phase 2 x (2-phase + AS/FC) 3 x (2-phase + AS/FC) 5 x (2-phase + AS/FC)	5ST3 606 5ST3 607 5ST3 608 5ST3 610 5ST3 611 5ST3 612	027 027 027 027 027 027	0.016 0.024 0.048 0.020 0.030 0.050	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit
	Cu busbars 16 mm² For busbar mounting 5SU1 ...-KK.. RCBOs together Fully insulated 2-phase 2 x 2-phase 3 x 2-phase 6 x 2-phase 2 x (2-phase + AS/FC) 3 x (2-phase + AS/FC) 5 x (2-phase + AS/FC)	5ST3 636 5ST3 637 5ST3 638 5ST3 640 5ST3 641 5ST3 642	027 027 027 027 027 027	0.024 0.039 0.076 0.026 0.045 0.084	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit
	Without end caps Length 1016 mm 2-phase 2-phase + AS/FC	5ST3 735 5ST3 737	027 027	0.290 0.290	1 unit 1 unit
	End caps For lateral insulation of cut-to-length busbars	5ST3 705 5ST3 707	027 027	0.290 0.290	1 unit 1 unit
	Touch protection For free connections, yellow (RAL 1004)	5ST3 655	027	0.003	1 unit

For more busbar versions,
see Accessories for Miniature Circuit-Breakers.

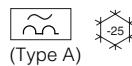
AS: auxiliary circuit switch

FC: fault signal switch

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Residual Current Operated Circuit-Breakers

RC Units for Miniature Circuit-Breakers



5SM2, product overview

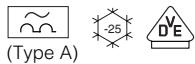
Overview

	Number of poles	Rated current I_n A	Rated residual current $I_{\Delta n}$ mA	MW	Additional components can be retrofitted	(Type A) ¹⁾
RC units for 5SY4, 5SY6, 5SY7, 5SY8 miniature circuit-breakers²⁾						
Instantaneous tripping Surge current withstand capability > 1 kA	2	0.3 ... 16	10	2	On the MCB	•
	2	0.3 ... 40	30, 300	2	On the MCB	•
	3	0.3 ... 63	30, 300, 500	3	On the MCB	•
	4	0.3 ... 40 0.3 ... 63	30, 300 30, 300, 500	3	On the MCB On the MCB	•
[K] Short-time delayed Surge current withstand capability > 3 kA	4	0.3 ... 40 0.3 ... 63	30	3	On the MCB On the MCB	•
	4	0.3 ... 40 0.3 ... 63	30	3	On the MCB On the MCB	•
[S] Selective Surge current withstand capability > 5 kA	2	0.3 ... 40 0.3 ... 63	300	2	On the MCB On the MCB	•
	3	0.3 ... 63	300, 500, 1 000	3	On the MCB	•
	4	0.3 ... 63	300, 500, 1 000	3	On the MCB	•
	4	0.3 ... 63	300, 500, 1 000	3	On the MCB	•
RC units for 5SP4 miniature circuit-breakers						
Instantaneous tripping, surge current withstand capability > 1 kA	2	80 ... 100	30, 300	3.5	On the MCB	•
	4	80 ... 100	30, 300	5	On the MCB	•
[S] Selective Surge current withstand capability > 5 kA	2	80 ... 100	300	3.5	On the MCB	•
	4	80 ... 100	300, 1 000	5	On the MCB On the MCB	•

1) = Type A for AC and pulsating DC residual currents

2) For RC unit, additional components for 5SY and 5SP4 miniature circuit-breakers, see also Miniature Circuit-Breakers.

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Residual Current Operated Circuit-Breakers

RC Units for Miniature Circuit-Breakers

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**5SM2, 0.3 ... 63 A,
for 5SY4, 5SY6, 5SY7, 5SY8**

Benefits

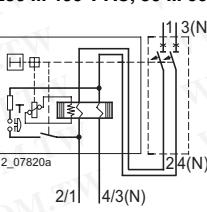
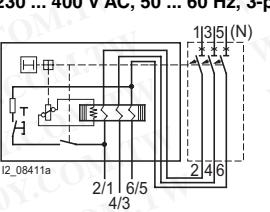
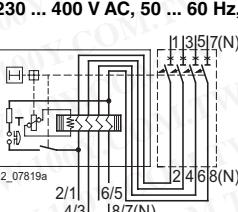
- High application flexibility
- Customers can combine the device characteristics of RC units and miniature circuit-breakers
- Used together with miniature circuit-breakers achieves a combined personnel and line protection

Application

- Personnel and fire protection
 - $I_{\Delta n} \leq 30$ mA: additional protection in case of direct contact
 - $I_{\Delta n} \leq 300$ mA: preventative fire protection in case of ground fault currents

- Product standards: IEC/EN 61009-1 (VDE 0664, Part 20); IEC/EN 61009-2-1 (VDE 0664, Part 21); IEC/EN 61543 (VDE 0664, Part 30)
- Rated voltage for 2, 3 and 4-pole version: 230 to 400 V AC; 50 to 60 Hz; applicable in systems up to: 250/440 V AC
- Can be combined with miniature circuit-breakers of characteristic A, B, C and D
- Definition of surge current withstand capability with current waveform 8/20 μ s according to DIN VDE 0432, Part 2
- **S** S type: can be used as upstream group switch for selective tripping contrary to a downstream standard RCCB. Very high surge current withstand capability: > 5 kA
- **K** K type: short-time delayed tripping in the case of transient leakage currents. High surge current withstand capability: > 3 kA

Selection and ordering data

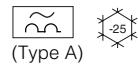
Circuit diagram	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
Instantaneous tripping, surge current withstand capability > 1 kA¹⁾									
	10 30 300 30 500	0.3 ... 16 0.3 ... 40 0.3 ... 63 0.3 ... 63 0.3 ... 63		2	5SM2 121-6 5SM2 322-6 5SM2 622-6 5SM2 325-6 5SM2 625-6 5SM2 725-6	007 007 007 007 007 007	0.180 0.170 0.170 0.170 0.170 0.170	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	
	30 300 30 300 500	0.3 ... 40 0.3 ... 63 0.3 ... 63 0.3 ... 63		3	5SM2 332-6 5SM2 632-6 5SM2 335-6 5SM2 635-6 5SM2 735-6	007 007 007 007 007	0.260 0.260 0.260 0.260 0.260	1 unit 1 unit 1 unit 1 unit 1 unit	
	30 300 30 300 500	0.3 ... 40 0.3 ... 63 0.3 ... 63 0.3 ... 63		3	5SM2 342-6 5SM2 642-6 5SM2 345-6 5SM2 645-6 5SM2 745-6	007 007 007 007 007	0.290 0.290 0.290 0.290 0.290	1 unit 1 unit 1 unit 1 unit 1 unit	
K Short-time delayed, surge current withstand capability > 3 kA¹⁾									
230 ... 400 V AC, 50 ... 60 Hz, 4-pole	30 0.3 ... 63	0.3 ... 40 0.3 ... 63		3	5SM2 342-6KK01 5SM2 345-6KK01	007 007	0.350 0.350	1 unit 1 unit	
S Selective, surge current withstand capability > 5 kA¹⁾									
230 ... 400 V AC, 50 ... 60 Hz, 2-pole	300 300	0.3 ... 40 0.3 ... 63		2	S 5SM2 622-8 S 5SM2 625-8	007 007	0.170 0.170	1 unit 1 unit	
230 ... 400 V AC, 50 ... 60 Hz, 3-pole	300 500 1 000	0.3 ... 63 0.3 ... 63 0.3 ... 63		3	S 5SM2 635-8 S 5SM2 735-8 S 5SM2 835-8	007 007 007	0.260 0.260 0.260	1 unit 1 unit 1 unit	
230 ... 400 V AC, 50 ... 60 Hz, 4-pole	300 500 1 000	0.3 ... 63 0.3 ... 63 0.3 ... 63		3	S 5SM2 645-8 S 5SM2 745-8 S 5SM2 845-8	007 007 007	0.290 0.290 0.290	1 unit 1 unit 1 unit	

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

* You can order this quantity or a multiple thereof.

Residual Current Operated Circuit-Breakers

RC Units for Miniature Circuit-Breakers



5SM2, 80 ... 100 A, for 5SP4

Benefits

- High application flexibility
- Customers can combine the device characteristics of RC units and miniature circuit-breakers
- Used together with miniature circuit-breakers achieves a combined personnel and line protection
- External remote tripping over Y1/Y2 terminals

Application

- Personnel and fire protection
 - $I_{\Delta n} \leq 30$ mA: additional protection in case of direct contact
 - $I_{\Delta n} \leq 300$ mA: preventative fire protection in case of ground fault currents

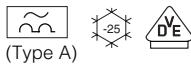
- Product standards: IEC/EN 61009-1 (VDE 0664, Part 20); IEC/EN 61009-2-1 (VDE 0664, Part 21); IEC/EN 61543 (VDE 0664, Part 30)
- Rated voltage
 - 2-pole: 125 to 230 V AC; 50 to 60 Hz; can be used in systems up to 125/240 V AC
 - 4-pole: 230 to 400 V AC; 50 to 60 Hz; can be used in systems up to 230/400 V AC
- Can be combined with miniature circuit-breakers, characteristic B and C
- Definition of surge current withstand capability with current waveform 8/20 μ s according to DIN VDE 0432, Part 2
- **[S]** S type: can be used as upstream group switch for selective tripping compared with downstream standard RCCBs. Very high surge current withstand capability: > 5 kA

Selection and ordering data

	Circuit diagram	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	MW	Version	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
Instantaneous tripping, surge current withstand capability > 1 kA										
125 ... 230 V AC, 50 ... 60 Hz, 2-pole		30 300	80 ... 100	3.5		5SM2 327-6 5SM2 627-6	007 007	0.410 0.410	1 unit 1 unit	
230 ... 400 V AC, 50 ... 60 Hz, 4-pole		30 300	80 ... 100	5		5SM2 347-6 5SM2 647-6	007 007	0.630 0.630	1 unit 1 unit	
[S] Selective, surge current withstand capability > 5 kA										
125 ... 230 V AC, 50 ... 60 Hz, 2-pole		300	80 ... 100		S	5SM2 627-8	007	0.410	1 unit	
230 ... 400 V AC, 50 ... 60 Hz, 4-pole		300 1 000	80 ... 100		S S	5SM2 647-8 5SM2 847-8	007 007	0.630 0.630	1 unit 1 unit	

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Residual Current Operated Circuit-Breakers RC Socket Outlets

5SM1 and 5SZ9 RCCB protective socket outlets

Overview

	Number of poles	Rated current I_n A	Rated residual current $I_{\Delta n}$ mA	(Type A)
RCCB protective socket outlets				
For mounting onto switch and socket box, equipped with RCCB and 2 SCHUKO socket outlets	2	16	10, 30	•
Molded-plastic enclosures, equipped with RCCB and SCHUKO socket outlet	2	16	10	•
RCCB protective socket outlets for a higher level of protection				
SCHUKO DELTA profil socket outlets, titanium white	2	16	10, 30	•

= Type A for AC and pulsating DC residual currents

Application

Molded-plastic enclosures, equipped with RCCB and flush-mounting SCHUKO socket outlets or flush-mounting SCHUKO double socket outlets

- Rated voltage: 230 V AC, 50 to 60 Hz
- For electric devices where, in the event of damage, there is a risk of accidental contact with live parts
- For outdoor connection of gardening equipment and socket outlets in workshops or for agricultural purposes
- Degree of protection IP54 (5SZ9).

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RCCB protective socket outlets according to VDE 0662, DELTA profil

- Rated voltage: 230 V AC, 50 to 60 Hz
- Childproof SCHUKO socket outlets with integrated RCCB
- For retrofitting in existing installations or for additional protection in children's rooms, bathroom, garage, workshop, kindergarten, schools, etc.
- With VDE mark of conformity according to the DIN VDE 0662 (Stationary Protective Socket Outlet for a Higher Level of Protection, SRCD) draft
- The mode of operation is not dependent on the system voltage
- The protective conductor is monitored but not switched
- Degree of protection IP21
- With screwless terminals 1.5 to 2.5 mm², for copper and aluminum conductors
- For installation in conventional switch and socket boxes, Ø 60 mm, for screw connection
- Operable in TN-S system, TN-C system and TT system
- Including frame, single frame, with cutout 48 mm x 48 mm.

Note:

The protective measures according to DIN VDE 0100 must also be observed when RCCB protective socket outlets are used.

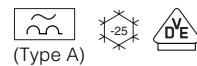
Selection and ordering data

	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
	10 30	16	5SM1 920-5 5SM1 920-8	008 008	0.500 0.500	1 unit 1 unit	
	10 30	16	5SZ9 206 5SZ9 216	008 008	0.760 0.760	1 unit 1 unit	

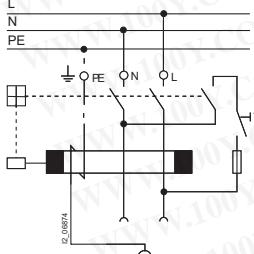
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Residual Current Operated Circuit-Breakers

RC Socket Outlets



5SM1 and 5SZ9 RCCB protective socket outlets

	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
					kg	Unit(s)	
RCCB protective socket outlets according to VDE 0662 for increased protection level (SCHUKO) childproof DELTA profil socket outlets, titanium white							
 	10 30	16	5SZ9 211 5SZ9 212	008 008	0.160 0.160	1 unit 1 unit	

Suitable for mounting on 5TG1 825 surface-mounting enclosures.

For more cutout frames for multiple combinations, see Catalog ET D1, "DELTA Switches and Outlets".

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For all product ranges

Accessories

		Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
				kg	Unit(s)	
	Terminal covers, gray For surface mounting, degree of protection IP40, sealable, with 35 mm standard mounting rail Up to 2.5 MW Up to 4.5 MW	5SW3 004 5SW3 005	008 008	0.084 0.114	1 unit 1 unit	
	Wall enclosures, gray For flush mounting, degree of protection IP40, with 35 mm standard mounting rail Up to 2.5 MW Up to 4.5 MW	5SW3 006 5SW3 007	008 008	0.126 0.147	1 unit 1 unit	
	Molded-plastic enclosures, gray Surface mounting, IP54, with 35 mm standard mounting rail, sealable, with transparent hinged lid, for 4.5 MW	5SW1 200	008	0.450	1 unit	
	Covers Can be assembled as mini distribution board, suitable for all devices, cover parts prepared for side-by-side mounting of conventional label caps, comprising: <ul style="list-style-type: none">• End plates (for snapping onto standard mounting rail)• Angled profile (approx. 1 m long)• Alternatively flat profile (as a cover between the rows of devices, length approx. 1 m)	5ST2 134 5ST2 135 5ST2 136	027 027 027	0.022 0.330 0.260	1 unit 1 unit 1 unit	
	Snap-on terminals For 35 mm standard mounting rail For conductors up to 16 mm ² solid or conductors up to 10 mm ² stranded Width 0.5 MW	5ST2 112	027	0.008	1 unit	
	Fixing parts 4 MW (plastic)	5ST2 201	027	0.012	1 unit	
	Inscription labels (white) 15 mm x 9 mm, 3 frames with 44 labels each Any attachment, inscription possible, self-adhesive	5ST2 173	027	0.038	1 set 1 set	
	Labeling systems The labeling program can be downloaded free of charge from: http://www.siemens.com/beta					
	Recommended labels ELAT-3-747 can be ordered at: Brady GmbH Otto-Hahn-Str. 5-7 63222 Langen Tel: +49 (0)6103/7598-660					

Lightning and Surge Arresters

Introduction

Overview

Lightning arresters – requirement category B, type 1, class I



- 1 and 3-pole
- Rated discharge voltage U_c 255 V AC
- Lightning impulse current 50 ... 100 kA
- Enclosed and unenclosed version

Combination arresters – requirement category B, type 1, class I



- Multipole
- Rated discharge voltage U_c 255 V AC
- Lightning impulse current 25 ... 100 kA
- TN-C, TN-S and TT version
- Optional remote signaling module

Surge arresters, 1-pole – requirement category C, type 2, class II



- Rated discharge voltage U_c 255 ... 385 V AC
- Rated discharge current 15 ... 20 kA
- Version with or without remote display

Surge arresters, multipole – requirement category C, type 2, class II



- Rated discharge voltage U_c 255 ... 335 V AC
- Rated discharge current 15 ... 20 kA
- Version with or without remote display

Surge arresters – requirement category D, type 3, class III



- Modular devices
- Socket outlets and socket outlet adapters
- Combined protection equipment, socket outlet adapters

Accessories



- Male connector for surge arresters
- Interaction limiting phase reactor
- Through-type terminal
- Busbars

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Lightning and Surge Arresters

Lightning Arresters

Requirement category B, type 1, class I

Overview

- Supports inclusion of power lines in the lightning protection equipotential bonding
- For protection of low-voltage load systems against overvoltage, even in case of direct lightning strikes
- Max. permissible operational voltage 255 V AC, 50/60 Hz
- Lightning impulse current test, wave-shaped 10/350 µs

- The enclosed version can prevent ion emissions, as opposed to self-extinguishing measuring spark gaps: this facilitates the mounting of wiring next to other devices in the system
- Supports energy coordination with surge arresters of requirement category C, type 2, class II
- Mounting depth: 58 mm

Selection and ordering data

	Discharge capacity MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
				kg	Unit(s)	
Lightning arresters						
	Lightning arresters, 1-pole Unenclosed N-PE unenclosed Enclosed N-PE enclosed	75 kA 100 kA 50 kA 100 kA	2 2 2 2	5SD7 311-0 5SD7 318-0 5SD7 311-1 5SD7 318-1	008 008 008 008	0.353 0.295 0.277 0.261
	Lightning arresters, 3-pole Enclosed	100 kA	4	5SD7 313-1	008	0.579
	Lightning arresters with increased follow current discharge capacity, 1-pole Safe breaking of line-follow currents up to 50 kA _{eff} without series fuse Unenclosed	50 kA	2	5SD7 315-0	008	0.353
Accessories for 5SD7 311-0, 5SD7 318-0 and 5SD7 315-0 to ensure the required mounting dimensions:						
8HP molded-plastic distribution system in enclosure size 1 and 2, see SIVACON Switchgear, Distribution Systems and Cabinets.						

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Lightning and Surge Arresters

Combination Arresters

Requirement category B, type 1, class I

Overview

- Combination arresters are surge arresters that meet the basic requirement of requirement category I and II, i.e.:
 - Have a lightning stroke current discharge capacity of 75 kA/100 kA (10/350)
 - Can be energy-coordinated with surge arresters of requirement category B, type 2, class II and C, type 3, class III as well as directly with data terminal equipment of overvoltage category I ($U_n = 230 \text{ V AC}$)
- Protection level < 1.5 kV, corresponding to withstand impulse voltage of overvoltage category I
- Compact unit for all 3-phase systems which is ready for connection
- Connection system: double terminal design supports "V wiring" option
- Multifunction terminal in the outgoing circuit

- Visual operational voltage display
- Remote indication by means of a separate, overvoltage-protected display and remote signaling module
- Overvoltage and atmospheric lightning arrester in a single device
- Perfect "all in one" solution
- Cabled complete device for any distribution system (TT, TN-C and TN-S)
- Easy-to-use device selection thanks to simple description
- Up to 70 % more space saving than conventional solutions
- Simple installation on standard mounting rail
- Mounting depth: 58 mm

Selection and ordering data

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit	
					kg	Unit(s)	
Combination arresters							
5SD7 343-1	TN-C	6	5SD7 343-0	008	1.070	1 unit	
	TN-S	8	5SD7 344-0	008	1.388	1 unit	
	TT	8	5SD7 343-1	008	1.402	1 unit	
	2P TT	8	5SD7 341-1	008	0.853	1 unit	
5SD7 348-3							
5SD7 348-3	Remote signaling modules						
	The remote signaling module is placed on left-hand side of combination arrester and linked to the existing connecting cables.						
	Contact: 1 CO contact 250 V AC, 0.5 A 250 V DC, 0.1 A 125 V DC, 0.2 A 75 V DC, 0.5 A						
	Contact 11/12: Operating status 11/14: Fault						
	J14 J12 J11						
	For 5SD7 343-0, 5SD7 343-1 and 5SD7 344-0 combination arresters With 4 connecting cables		1.5	5SD7 348-3	008	0.146	1 unit
	For 5SD7 341-1 combination arresters With 2 connecting cables		1.5	5SD7 348-1	008	0.154	1 unit

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Lightning and Surge Arresters

Surge Arresters

1-pole
Requirement category C, type 2, class II

Overview

- For the protection of low-voltage load system against overvoltage
- High discharge capacity through powerful zinc oxide varistors/spark gaps (N-PE surge arresters)
- High monitoring reliability through isolating arrester disconnector "Thermo Dynamic Control" with double monitoring
- Fault indication through red marking in inspection window
- Multifunction terminals for conductor and busbar connection

- Simple replacement of surge arrester connectors
- Simple mounting on standard mounting rail with busbars
- Design as for multipole version
- Same connector as for multipole version
- No interaction limiting phase reactor with surge arresters Class III (formerly D)

Selection and ordering data

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Surge arresters, 1-pole						
Surge arresters						
• High monitoring reliability through isolating arrester disconnector "Thermo Dynamic Control" with double monitoring function						
• Fault indication through red marking in the inspection window						
• Multifunction terminal for conductor and busbar connection						
• 1-pole						
Rated surge arrester voltage $U_c = 275 \text{ V}$	1	5SD7 300-2	008	0.130	1 unit	
Rated surge arrester voltage $U_c = 385 \text{ V}$	1	5SD7 300-5	008	0.127	1 unit	
Surge arresters with remote display¹⁾						
• Same version as 5SD7 300-2, but with additional 3-pole terminal for connection of remote indication						
• When the monitoring device responds (disconnection of the defective arrester from the line supply as a result of overload), the remote signaling connections are switched through a floating changeover contact.						
14 12 11 • 1-pole						
Rated surge arrester voltage $U_c = 275 \text{ V}$	1	5SD7 301-2	008	0.135	1 unit	

- 1) The devices can be coupled to *instabus* KNX EIB and AS-i bus or PROFIBUS through potential-free changeover contacts.



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Lightning and Surge Arresters

Surge Arresters

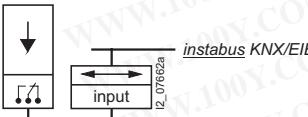
1-pole

Requirement category C, type 2, class II

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Surge arresters, 1-pole, plug-in						
						
Surge arresters, plug-in						
	• Same version as 5SD7 300-2, but 2-piece, comprising basic element and plugged protective block • 1-pole					
5SD7 302-2	Rated surge arrester voltage $U_c = 275$ V Rated surge arrester voltage $U_c = 335$ V	1 1	5SD7 302-2 5SD7 302-4	008 008	0.136 0.138	1 unit 1 unit
Surge arresters, plug-in with remote display¹⁾						
						
	• Same version as 5SD7 302-2, but with additional 3-pole terminal for connection of remote indication • When the monitoring device responds (disconnection of the defective arrester from the line supply as a result of overload), the remote signaling connections are switched through a floating changeover contact.					
5SD7 303-2	14 12 11					
	Rated surge arrester voltage $U_c = 275$ V Rated surge arrester voltage $U_c = 335$ V Rated surge arrester voltage $U_c = 385$ V	1 1 1	5SD7 303-2 5SD7 303-4 5SD7 303-5	008 008 008	0.150 0.285 0.140	1 unit 1 unit 1 unit
N-PE surge arresters for 3+1 circuitry in the TT network						
						
	• Specially for operation in TT system in "3+1 circuit" according to DIN V VDE V 0100-534: 1999-04 between neutral conductor N and PE conductor/equipotential bonding with lightning impulse current (10/350 µs) 12 kA • Surge arrester on the basis of spark gaps • Multifunction terminal for conductor and busbar connection					
5SD7 308-0	Rated surge arrester voltage $U_c = 275$ V	1	5SD7 308-0	008	0.117	1 unit

For technical specifications, see Catalog ET B1 T.

- 1) The devices can be coupled to instabus KNX/EIB and AS-i bus or PROFIBUS through potential-free changeover contacts.



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Lightning and Surge Arresters

Surge Arresters

Multipole
Requirement category C, type 2, class II

Overview

The multipole surge arresters are pre-wired complete devices. While 1-pole surge arresters can also generally be used to achieve the same function, the advantages of the multipole surge arresters are considerable cost-savings and a significantly smaller footprint in the distribution board.

The multipole lightning arresters are available for conventional system types, with or without remote indication. These devices are separable and are also available with plug-in protective blocks.

All device models are available for rated surge arrester voltages of 275 V, 335 V and 385 V. The 275 V version is used in the FRG and in Europe (exception: in Austria, the version with a rated surge arrester voltage of 335 V AC is used). The 385 V version is intended for the Asian market.

Designs:

- TN-C, plug-in
- TN-C, plug-in with remote indication
- TN-S, plug-in
- TN-S, plug-in with remote indication
- TT plug-in
- TT plug-in with remote indication

Accessories: Connectors

Versions suitable for multipole surge arresters TN-C/TN-S/TT and 1-pole surge arresters.

The pluggable protective block can be replaced with no need to disconnect the supply voltage or remove the cover plate of the distribution board.

Selection and ordering data

		Surge arrester rated voltage	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
		U_C				kg	Unit(s)	
Surge arresters, multipole, plug-in								
	TN-C	275 V	3	5SD7 323-2	008	0.379	1 unit	
		335 V	3	5SD7 323-4	008	0.361	1 unit	
		385 V	3	5SD7 323-5	008	0.401	1 unit	
	TN-C with remote indication	275 V	3	5SD7 324-2	008	0.369	1 unit	
		335 V	3	5SD7 324-4	008	0.328	1 unit	
		385 V	3	5SD7 324-5	008	0.404	1 unit	
	TN-S	275 V	4	5SD7 325-2	008	0.484	1 unit	
		335 V	4	5SD7 325-4	008	0.462	1 unit	
		385 V	4	5SD7 325-5	008	0.502	1 unit	
	TN-S with remote indication	275 V	4	5SD7 326-2	008	0.385	1 unit	
		335 V	4	5SD7 326-4	008	0.472	1 unit	
		385 V	4	5SD7 326-5	008	0.509	1 unit	
	TT	275 V	4	5SD7 327-2	008	0.438	1 unit	
		335 V	4	5SD7 327-4	008	0.438	1 unit	
		385 V	4	5SD7 327-5	008	0.472	1 unit	
	TT with remote indication	275 V	4	5SD7 328-2	008	0.470	1 unit	
		335 V	4	5SD7 328-4	008	0.462	1 unit	
		385 V	4	5SD7 328-5	008	0.480	1 unit	



5SD7 327-2



5SD7 328-2

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Lightning and Surge Arresters

Surge Arresters

Modular installation devices,
requirement category D, type 3, class III

Overview

Surge arresters of requirement category D, type 3, class III are used for protection of data terminal equipment. They represent the third level of the lightning and overvoltage protection concept and, typically, are used at the transition areas for lightning protection zones LPZ 2 to LPZ 3.

Surge arresters of requirement category D are available in the following versions:

- As modular devices for rail-mounting
- As SCHUKO socket outlets and socket outlet adapters
- As combination protective adapters for special applications with additional protection of data lines

Selection and ordering data

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Surge arresters/modular devices, 2-pole						
	Surge arresters <ul style="list-style-type: none">• Rated voltage 230 V AC/DC• Rated surge arrester voltage 255 V AC/DC• 2-pole overvoltage protection with monitoring equipment and isolating arrester disconnector• Floating remote indication contact (NC contact) for fault indication• For protection of 1-phase terminal equipment	1.5	5SD7 332-0	008	0.110	1 unit
Surge arresters/modular devices, 4-pole						
	Surge arresters <ul style="list-style-type: none">• Rated voltage 230 V AC/DC• Rated surge arrester voltage 255 V AC/DC• 4-pole overvoltage protection with monitoring equipment and isolating arrester disconnector• Floating remote indication contact (NC contact) for fault indication• For protection of 1-phase terminal equipment	3	5SD7 334-0	008	0.208	1 unit

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Selection and ordering data

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/P. unit
				kg	Unit(s)	
Surge arresters/socket outlets						
	Siemens (SCHUKO) socket outlets with overvoltage protection 5UB1.../5UH1... 1)					
	<ul style="list-style-type: none"> Rated voltage 230 V AC/DC Rated surge arrester voltage 255 V AC/DC 2-pole overvoltage protection with monitoring equipment and isolating arrester disconnector For protection of 1-phase terminal equipment With labeling field For the DELTA switch-socket outlet range 					
Surge arresters/socket outlet adapters						
	Protective adapters, standard	5SD7 335-0	008	0.159	1 unit	
	<ul style="list-style-type: none"> Can be plugged into (SCHUKO) socket outlets Visual function/fault indication Rated voltage 230 V AC/50 Hz Rated current: 16 A Rated discharge current: 2.5 kA 					
	Protective adapters with line filter	5SD7 335-1	008	0.260	1 unit	
	<ul style="list-style-type: none"> Can be plugged into (SCHUKO) socket outlets Visual function/fault indication Rated voltage 230 V AC/50 Hz Rated current: 16 A Rated discharge current: 2.5 kA Same as the standard protective adapters with line filter against high-frequency noise voltages 					
Surge arresters/combination protection equipment						
	NTBA/DSL splitter protective adapters	5SD7 335-2	008	0.260	1 unit	
	<ul style="list-style-type: none"> Can be plugged into (SCHUKO) socket outlets Visual function/fault indication Rated voltage 230 V AC/50 Hz Rated current: 16 A Rated discharge current: 2.5 kA Connection: <ul style="list-style-type: none"> - 3 m connecting cable with TAE/F connector - TAE/F socket 					
	ISDN protective adapters	5SD7 335-3	008	0.278	1 unit	
	<ul style="list-style-type: none"> Can be plugged into (SCHUKO) socket outlets Visual function/fault indication Rated voltage 230 V AC/50 Hz Rated current: 16 A Rated discharge current: 2.5 kA Connection: <ul style="list-style-type: none"> - 3 m connecting cable with RJ45 connector - RJ45 socket 					
	LAN protective adapters	5SD7 335-4	008	0.175	1 unit	
	<ul style="list-style-type: none"> Can be plugged into (SCHUKO) socket outlets Visual function/fault indication Rated voltage 230 V AC/50 Hz Rated current: 16 A Rated discharge current: 2.5 kA Connection: <ul style="list-style-type: none"> - RJ45 socket, shielded - RJ45 socket, shielded 					
	TV/RADIO protective adapters	5SD7 335-5	008	0.227	1 unit	
	<ul style="list-style-type: none"> Can be plugged into (SCHUKO) socket outlets Visual function/fault indication Rated voltage 230 V AC/50 Hz Rated current: 16 A Rated discharge current: 2.5 kA Connection: <ul style="list-style-type: none"> - 75 Ω IEC socket - 75 Ω IEC socket 					

1) For prices and more information, see Catalog ET D1,
 "DELTA Switches and Outlets".

Lightning and Surge Arresters

Accessories

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Selection and ordering data

	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Through-type terminals						
• For simple wiring in the different circuit versions (see Catalog ET B1)						
1-pole	1	5SD7 360-0		008	0.121	1 unit
Male connectors for surge arresters						
• Male connectors can be used for both 1-pole and multipole surge arresters						
Male connector for L-N surge arrester Rated surge arrester voltage $U_c = 275$ V	1	5SD7 392-2		008	0.049	1 unit
Male connectors for L-N surge arresters Rated surge arrester voltage $U_c = 335$ V	1	5SD7 392-4		008	0.049	1 unit
Male connectors for L-N surge arresters Rated surge arrester voltage $U_c = 385$ V	1	5SD7 392-5		008	0.049	1 unit
Male connector for N-PE surge arrester (TT system)	1	5SD7 398-0		008	0.035	1 unit
Busbars						
Busbars for lightning arresters						
8-pole, 1-phase		5SD7 361-1		008	0.038	1 unit
Busbars for surge arresters						
4-pole, 1-phase		5SD7 361-0		008	0.020	1 unit
Busbars for combination arresters						
TN-S/TT and 4-pole residual current protective devices (5SM1 and 5SM3)		5SD7 084		008	0.133	1 unit
Busbars for combination arresters						
TN-S/TT and 4-pole miniature circuit-breakers (5SY)		5SD7 085		008	0.143	1 unit
Busbars for combination arresters						
TN-C and 3-pole residual current protective devices (5SM1 and 5SM3)		5SD7 086		008	0.079	1 unit
Busbars for combination arresters						
TN-C and 3-pole miniature circuit-breakers (5SY)		5SD7 087		008	0.084	1 unit
Busbars for multipole surge arresters						
TN-S/TT and 4-pole miniature circuit-breakers (5SY)		5SD7 088		008	0.104	1 unit
Busbars for multipole surge arresters						
TN-C and 3-pole miniature circuit-breakers (5SY)		5SD7 090		008	0.064	1 unit
Interaction limiting phase reactors						
• For the energetic coordination of lightning and surge arresters in the event of a lightning impulse current of 10/350 μ s						
• The concentrated inductance replaces the otherwise necessary cable length for decoupling lightning and surge arrester						
• Mounting depth: 58 mm						
• Rated voltage:	500 V, 50 Hz ... 60 Hz					
• Inductance:	15 μ H \pm 20 %					
Rated current:	35 A					
Rated current:	63 A					
	2	5SD7 390-0		008	0.355	1 unit
	4	5SD7 391-0		008	0.680	1 unit



5SD7 390-0

* You can order this quantity or a multiple thereof.

5TE6 8 socket outlets

Overview

Socket outlets for mounting on standard mounting rails according to DIN 50022 have since become the standard in modern switch-gear/distribution boards. The 5TE6 8 socket outlets can be used without lids for 55 mm mounting depth, and with covers for 70 mm mounting depth. The lids can be retrofitted on all devices. The lid can be opened to an angle of 180 degrees.

By pulling on the hinges, the lids stay open, which facilitates plugging in.

To make mounting easier, the touch-protected terminals L, N and PE are located on the side of the socket outlet.

The 5TE6 8 socket outlets are available in the following country versions (in compliance with the pertinent standards):

- For Germany (VDE)
- For Belgium/France (CEE 7)
- For Italy (DEI) and
- For USA (UL)

Selection and ordering data

	U_e V AC	I_e A	Conductor cross-section mm ²	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
VDE socket outlets according to DIN VDE 0620-1									
	• Without lid 250	16	6	2.5	5TE6 800	027	0.102	1 unit	
VDE socket outlets according to DIN VDE 0620-1									
	• With hinged lid 250	16	6	2.5	5TE6 801	027	0.109	1 unit	
Socket outlets according to CEI 23-50									
	• With hinged lid 250	16	6	2.5	5TE6 802	027	0.111	1 unit	
Socket outlets according to CEE 7 Standard sheet V									
	• Without lid, with grounding pin 250	16	6	2.5	5TE6 803	027	0.104	1 unit	
Socket outlets according to UL 498									
	• Without lid, mounting depth 55 mm 125	15	6	2.5	5TE6 804	027	0.099	1 unit	
Hinged lids for 5TE6 80. socket outlets									
				2.5	5TE9 120	027	0.018	1 unit	

* You can order this quantity or a multiple thereof.

Overview

Instruments	Application	Standards	Usage		
			Non-residential buildings	Residential buildings	Industry
	Time and pulse counters • 7KT5 80 and 7KT5 82 time counters • 7KT5 81 and 7KT5 83 pulse counters	Monitoring of operating hours and starting operations of devices or plants	IEC 60255-6, EN 60255-6 (VDE 0435 T 301) UL 94	• •	•
	Time counters for front mounting 7KT5 5 and 7KT5 6	Monitoring of operating hours of devices or plants	IEC 60255-6, EN 60255-6 (VDE 0435 T 301)	• •	•
	Analog measuring devices 7KT1 0	For measuring voltages and currents, for monitoring input and output currents or device currents	IEC 60051-2, EN 60051-2	•	•
	Digital measuring devices 7KT1 1	For measuring voltages and currents, for monitoring input and output currents or device currents	DIN 43751-1, DIN 43751-2	•	•
	Multimeters 7KT1 30	For the display and assessment of 23 electrical measured values in switchgear, incoming supplies and outgoing feeders	IEC 60051-2, EN 60051-2 IEC 61010-1, EN 61010-1 (VDE 0411 T 1)	•	•
	Multicounters 7KT1 31, 7KT1 34, 7KT1 35	For the display and assessment of 35 electrical measured values and consumption values in switchgear, incoming supplies and outgoing feeders	IEC 60051-2, EN 60051-2 IEC 61010-1, EN 61010-1 (VDE 0411 T 1) IEC 62053-21, EN 62053-21 (VDE 0418 T 3-21)	• •	•

Instruments		Standards		Usage	
				Non-residential buildings	Residential buildings
E-counters, 1-phase 7KT1 14	For the measurement of kWh in 1-phase systems, e.g. in industrial plants, offices and apartments in apartment houses	IEC 62053-11, EN 62053-11 (VDE 0418 T 3-11) IEC 62053-21, EN 62053-21 (VDE 0418 T 3-21)	•	•	•
E-counters, 3-phase 7KT1 50, 7KT1 51, 7KT1 52	For the measurement of kWh in 1- and 3-phase systems, e.g. in industrial plants, offices and apartments in apartment houses	IEC 61010-1, EN 61010-1 (VDE 0411 T 1) IEC 62053-11, EN 62053-11 (VDE 0418 T 3-11) IEC 62053-21, EN 62053-21 (VDE 0418 T 3-21)	•	•	•
E-counters, 3-phase, <i>instabus KNX EIB</i> 7KT1 16	With <i>instabus</i> KNX EIB interface, for the measurement of kWh in 1- and 3-phase systems in industrial plants, offices and apartments in apartment houses	IEC 61036 EN 61036 (VDE 0418 T 7)	•	•	•
LAN couplers 7KT1 390	Worldwide data communication with measuring devices using LAN/Internet	IEEE 802	•	•	•
Measuring selector switches 7KT9 0	For switching over the phases for voltmeters and ammeters		•	•	•
Current transformers 7KT1 2	For non-contact measuring of primary currents of a 3-phase system	IEC 60044-1, EN 60044-1 (VDE 0414 T 44-1)	•	•	•

Definitions

- I_e = Rated operational current
- U_e = Rated operational voltage
- I_c = Rated control supply current
- U_c = Rated control supply voltage
- P_s = Rated operational power
- 1 MW = Modular width 18 mm

Measuring Devices

7KT5 8 time and pulse counters

Overview

The counters are designed for installation in switching, control and distribution boards and can be snapped onto 35 mm standard mounting rails according to EN 60715.

Selection and ordering data

	U_c V	Frequency Hz	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
	Time counters Mechanical register Display 000000.00 h Without resetting	12 ... 24 DC 24 AC 115 AC 230 AC 115 AC 230 AC	-- 50 -- 60	2 	7KT5 801 7KT5 802 7KT5 803 7KT5 804 7KT5 806 7KT5 807	027 027 027 027 027 027	0.095 0.095 0.095 0.095 0.095 0.095	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit
	Pulse counters Mechanical register Display 00000000 _L_L_ Without resetting	10 ... 24 DC 24 AC 230 AC	-- 50/60 --	2 	7KT5 811 7KT5 812 7KT5 814	027 027 027	0.095 0.095 0.095	1 unit 1 unit 1 unit
	Electronic time counters LCD 000000.0 h Without resetting	12 ... 150 DC, 24 ... 240 AC	50/60	2	7KT5 821	027	0.080	1 unit
	With electrical resetting	12 ... 150 DC, 24 ... 240 AC	50/60	2	7KT5 822	027	0.080	1 unit
	With electrical and mechanical resetting	12 ... 150 DC, 24 ... 240 AC	50/60	2	7KT5 823	027	0.080	1 unit
	Electronic pulse counters LCD display 0000000 _L_L_	10 ... 150 DC, 24 ... 240 AC	50/60	2	7KT5 833	027	0.080	1 unit

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7KT5 time counters for front mounting

Application

Areas of application are time and pulse recording for switchgear cabinets, control and mechanical engineering, e.g. boilers, machine tools or compressors.

Preventive maintenance

Time counters provide support when planning preventive maintenance. In-time and regular maintenance is the best protection against unexpected shutdowns and ensures high plant availability.

Selection and ordering data

	U_c V	Frequency Hz	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)		
Time counters										
Mechanical register, display 00000.00 h For front mounting, front frame 48 mm x 48 mm										
7KT5 500	10 ... 80 DC 24 AC 115 AC 230 AC 115 AC 230 AC	-- 50 60		7KT5 500 7KT5 505 7KT5 501 7KT5 502 7KT5 503 7KT5 504	027 027 027 027 027 027	0.045 0.045 0.045 0.045 0.045 0.045	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit			
7KT5 600	For front mounting, front frame 72 mm x 72 mm With narrow frame according to DIN 43700		2	7KT5 600 7KT5 601 7KT5 602 7KT5 603 7KT5 604	027 027 027 027 027	0.120 0.120 0.120 0.120 0.120	1 unit 1 unit 1 unit 1 unit 1 unit			
Covers for 7KT5 5 time counters										
55 mm x 55 mm										
Sealing rings for 7KT9 020 covers										
IP 43-installation in switchboards with smooth surfaces (1 set = 5 units)										
Terminal covers for 7KT5 6 time counters										
Degree of protection IP20										
7KT9 020										
7KT9 000										
7KT9 021										

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Measuring Devices

7KT1 0 analog measuring devices
7KT1 1 digital measuring devices

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Overview

These devices for measuring voltages and currents can be used for monitoring input and output currents or device currents. They are suitable for direct connection in a 1-phase network or, together with a measuring selector switch, for 3-phase networks.

Depending on the transformer, the ammeter for transformer connection can be fitted with interchangeable scales of 60, 100, 250, 400, 600 and 1000 A AC.

Main features of the devices are:

- Extensive scale
- Continuous overload up to 20 %

Selection and ordering data

	U_c V AC	U_{meas} V AC	I_{meas} A AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
Analog voltmeters									
		500		4	7KT1 000		027	0.105	1 unit
Analog ammeters for direct connection									
		25		4	7KT1 010		027	0.110	1 unit
		40			7KT1 011		027	0.125	1 unit
		60			7KT1 012		027	0.135	1 unit
Analog ammeters for transformer connection with AC scale 0 up to 150 A									
		0 ... 150/5		4	7KT1 020		027	0.105	1 unit
Changeable scales for 7KT1 020 ammeters									
	Easy on-site replacement	60			7KT9 001		027	0.005	1 unit
		100			7KT9 002		027	0.005	1 unit
		250			7KT9 004		027	0.005	1 unit
		400			7KT9 005		027	0.005	1 unit
		600			7KT9 006		027	0.005	1 unit
		1000			7KT9 007		027	0.005	1 unit

Overview

These devices for measuring voltages and currents can be used for monitoring input and output currents or device currents. They are suitable for direct connection in a 1-phase network or, together with a measuring selector switch, for 3-phase networks.

The measuring ranges of the ammeter are set at the device with a coding switch.

Selection and ordering data

	U_c V AC	U_{meas} V AC	I_{meas} A AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx.	PS*/ P. unit
Digital voltmeters									
		230	600		7KT1 110		027	0.190	1 unit
Digital ammeters for direct and transformer connection									
		230	0 ... 20 Trans- former/5	2	7KT1 120		027	0.200	1 unit

* You can order this quantity or a multiple thereof.

7KT1 30 multimeters

Overview

- All required measuring values of an installation clearly visible at a glance
- Innovative matrix selection of assignment and selection of measurement data of the display registers
- For direct connection of 63 A or for transformer /1A or /5A
- For transformer primary current of 10 A to 5000 A. Input is in 5 A increments
- Size, 11 mm high, attractive green 7-segment display for measured values
- Clearly recognizable orange text display of units assigned to the displays where the measured value appears
- Representation of measured values on 5 triple 7-segment displays and an auxiliary 7-segment display for input of primary current
- Detection of connection errors (phase transposition)
- With error detection in case of incorrect connection
- Measuring accuracy for voltage, current and output: $\pm 2\% \pm 1$ digit

Application

Extremely compact multifunction display for direct or transformer connection in a 3-phase network with wye-delta measurement for the display of up to 31 different electrical measured values in a switch-gear, incoming or outgoing feeders.

A special feature is the analysis of the different loads on the phases. Phase displacement, unsymmetrical or unbalanced loads can cause partial overloads. In this case, the multimeter offers a range of different options to combine measured values and assess them.

Selection and ordering data

	U_c V AC	I_e A AC	U_e V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Multimeters									
	For the display of 23 electrical values, of which 5 values can be continuously displayed. For 3 phases, 3/4-wire connection For direct connection	230	63	3 x 230/400 6	7KT1 300	027	0.400	1 unit	
7KT1 300	For transformer connection of 10 ... 5000 A, adjustable in 5 A increments Secondary current, optionally 1 A or 5 A	230	/1 or /5	3 x 230/400 6	7KT1 301	027	0.380	1 unit	
	For front mounting 96 mm x 96 mm For transformer connection of 10 to 5000 A, adjustable in 5 A increments Secondary current, optionally 1 A or 5 A	230	/1 or /5	3 x 230/400	7KT1 302	027	0.378	1 unit	
7KT1 302									

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7KT1 3 multounters

Overview

- All required measuring values of an installation clearly visible at a glance
- Innovative matrix selection of assignment and selection of measurement data of the display registers
- For direct connection of 63 A or for transformer /1A or /5A
- For transformer primary current of 10 A to 5000 A. Input is in 5 A increments
- Size, 11 mm high, attractive green 7-segment display for measured values
- Clearly recognizable orange text display of units assigned to the displays where the measured value appears
- Display of measured values on 4 three-fold 7-segment displays and a 7-fold 7-segment display
- Selection of display for active, reactive and apparent energy value, 3 or 7-digit
- Detection of connection errors (phase transposition)
- Accuracy class 2 according to IEC 62053-21, -23
- Versions with LAN and MS user interface
- Versions with PROFIBUS DP V1 interface

Application

Extremely compact multifunction display for direct or transformer connection in a 3-phase network with star-delta measurement for the display of up to 35 different electrical measured values in a switch-gear, incoming or outgoing feeders.

A special feature is the analysis of the different loads on the phases. Phase displacement, unsymmetrical or unbalanced loads can cause partial overloads. In this case, the multounter offers a range of different options to combine measured values and assess them.

You will find information on LAN operation and the MS Excel user interface under LAN Couplers.

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Selection and ordering data

	U_c V AC	I_e A AC	U_e V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)	
Multounters										
For the display of 38 electrical values, of which 5 or 6 values can be continuously displayed. For 3 phases, 3/4-wire connection										
With S0 interface 7KT1 310	230	63	3 × 230/400	6	7KT1 310		027	0.420	1 unit	
	For transformer connection of 10 ... 5000 A, adjustable in 5 A increments, secondary current optionally 1 or 5 A	230	/1 or /5	3 × 230/400	6	7KT1 311		027	0.410	1 unit
With LAN interface for connection to LAN couplers 7KT1 312	For transformer connection of 10 ... 5000 A, adjustable in 5 A increments, secondary current optionally 1 or 5 A, for front mounting 96 mm × 96 mm	230	/1 or /5	3 × 230/400		7KT1 312		027	0.410	1 unit
	For direct connection	230	63	3 × 230/400	6	7KT1 340		027	0.420	1 unit
	For transformer connection of 10 ... 5000 A, adjustable in 5 A increments, secondary current optionally 1 or 5 A	230	/1 or /5	3 × 230/400	6	7KT1 341		027	0.420	1 unit
	For transformer connection of 10 ... 5000 A, adjustable in 5 A increments, secondary current optionally 1 or 5 A, for front mounting 96 mm × 96 mm	230	/1 or /5	3 × 230/400		7KT1 342		027	0.430	1 unit
With PROFIBUS DP	For direct connection	230	63	3 × 230/400	6	7KT1 350		027	0.420	1 unit
	For transformer connection of 10 ... 5000 A, adjustable in 5 A increments, secondary current optionally 1 or 5 A	230	/1 or /5	3 × 230/400	6	7KT1 351		027	0.420	1 unit
	For transformer connection of 10 ... 5000 A, adjustable in 5 A increments, secondary current optionally 1 or 5 A, for front mounting 96 mm × 96 mm	230	/1 or /5	3 × 230/400		7KT1 352		027	0.430	1 unit

* You can order this quantity or a multiple thereof.

7KT1 14 E-counters, 1-phase

Overview

Features

- Accuracy class 2 according to IEC 62053-11
- With drum-type register 4 x 1.2 mm
- Short-circuit resistant pulse output

Selection and ordering data

U_c V AC	I_e A AC	U_e V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
E-counters for active energy								
With drum-type register 4 x 12 mm, with S0 interface, for 1-phase operation								
Direct connection, single rate 230	63	230	2	7KT1 140	027	0.400	1 unit	
Direct connection, double rate 230	63	230	2	7KT1 141	027	0.400	1 unit	



7KT1 140

Application

E-counters are used to measure kWh in 1-phase systems, e.g. in industrial plants, offices and apartments in apartment houses

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* You can order this quantity or a multiple thereof.

Measuring Devices

7KT1 5 E-counters, 3-phase

Overview

Features

- 1- or 3-phase measurement for 3- or 4-wire connection and center-tap calculation for 3-wire connection
- For direct connection 63 A or for transformer /5A
- For transformer primary current of 10 A to 5000 A.
Input is in 5 A increments

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• 7-fold 7-segment display for energy values and additional function indication

- Detection of connection errors (phase transposition)
- Versions with LAN interface and MS Excel user interface
- Accuracy class 2 according to IEC 61036

Application

E-counters are used to measure kWh in 1- and 3-phase systems, e.g. in industrial plants, offices and apartments in apartment houses.

Selection and ordering data

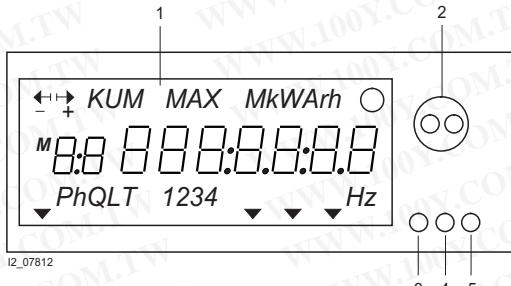
	U_c V AC	I_e A AC	U_e V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
E-counters for active energy									
With S0 interface, for 3 phases, 3/4-wire connection									
For direct connection, single rate									
230	63	3 × 230/400	6	7KT1 500		027	0.400	1 unit	
For transformer connection, single rate									
230	Transformer /5	3 × 230/400	6	7KT1 501		027	0.390	1 unit	
For direct connection, double rate									
230	63	3 × 230/400	6	7KT1 510		027	0.400	1 unit	
For transformer connection, double rate									
230	Transformer /5	3 × 230/400	6	7KT1 511		027	0.396	1 unit	
E-counters for active and reactive energy									
With S0 interface, for 3 phases, 3/4-wire connection									
For direct connection, single rate									
230	63	3 × 230/400	6	7KT1 502		027	0.400	1 unit	
For transformer connection, single rate									
230	Transformer /5	3 × 230/400	6	7KT1 503		027	0.396	1 unit	
For direct connection, double rate									
230	63	3 × 230/400	6	7KT1 512		027	0.396	1 unit	
For transformer connection, double rate									
230	Transformer /5	3 × 230/400	6	7KT1 513		027	0.396	1 unit	
E-counters for active and reactive energy									
With LAN for connection to LAN coupler, for 3 phases, 3/4-wire connection									
For direct connection, double rate									
230	63	3 × 230/400	6	7KT1 520		027	0.410	1 unit	
For transformer connection, double rate									
230	Transformer /5	3 × 230/400	6	7KT1 521		027	0.400	1 unit	

* You can order this quantity or a multiple thereof.

7KT1 16 E-counters, 3-phase,
instabus KNX EIB

Overview

E-counter with LCD display



- 1 Large-size 7-digit LCD 8 × 4 mm
- 2 IR readout interface for mounting the readout measuring head
- 3 Display pushbutton
- 4 IR test output LED (10 IMP/W)
- 5 Sealable Set/Reset pushbutton

Benefits

- PTB-approved
- Accuracy class 2
- LCD
- Short-circuit resistant pulse output
- With network analysis functions and direct cost display

Application

For the measurement of kWh in 1- and 3-phase systems, e.g. in industrial plants, offices and apartments in apartment houses. The versions with LCD display are used as network analysis devices for consumption analysis and minimization of operating costs in industrial plants and office buildings.

Selection and ordering data

	Display	I_e	U_e	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
E-counters for 3/4-wire connection, with LCD, with IR interface for double rate									
7KT1 162		Direct connection, with 2 SO pulse outputs and instabus KNX E/B interface	Active and reactive energy	10(63)	3 × 230/400	6	7KT1 162	027	0.450 1 unit
7KT1 165		Transformer connection, with 2 SO pulse outputs and instabus KNX E/B interface	Active and reactive energy	Transformers/5(6)	3 × 230/400	6	7KT1 165	027	0.390 1 unit

Accessories

		Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
IR measuring heads for 7KT1 16...						
	For reading out the data according to IEC 61107 With 9-pole COM connector and readout software	7KT9 030		027	0.170	1 unit

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* You can order this quantity or a multiple thereof.

Measuring Devices

7KT1 390 LAN couplers 7KT9 0 measuring selector switches

Overview

- Worldwide communication with measuring devices
- TCP/IP data protocol
- One LAN coupler for 10 devices
- Plug-and-play technology
- Microsoft Excel user interface (MS Excel)
- Limit value signals can be set for all measured values
- Limit violations are signaled with time information
- Analysis of 35 measured values with the 7KT1 340 or 7KT1 341 multimeters

Application

LAN servers are the data communication link between a PC and a group of up to 10 measuring devices (multicounters or E-counters) with one LAN interface. The LAN coupler can be linked either directly to a PC or in a company-specific LAN.

All devices are switched in parallel with a shielded 2-wire LAN interface line. The hardware interface between the devices and the LAN coupler supports plug-and-play technology.

Selection and ordering data

	U_c V AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
LAN couplers  For connection of 10 devices with LAN interface, with software for installation and startup routines and Microsoft Excel and tables for operating, setting limit values and monitoring	230	4	7KT1 390	027	0.300	1 unit	

Overview

- According to EN 60947-3
- Rated insulation voltage 660 V.

Application

For switching over the phases for voltmeters and ammeters.

Selection and ordering data

	U_e V AC	I_e A	Conductor cross- sections Up to mm ²	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Voltmeter selector switches  7KT9 010	400	12	6	3	7KT9 010	027	0.110	1 unit	
Ammeter selector switches for transformer operation  7KT9 011	400	12	6	3	7KT9 011	027	0.110	1 unit	

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7KT1 2 current transformers

Overview

- 3-phase current transformer set
- Accuracy class 1 according to EN 60044-1
- Straight-through transformer for conductors with a diameter of up to 13 mm, e.g. H07V-R with 50 mm² conductor cross-section
- Primary rated current 60 A, 100 A and 150 A
- Transformer ratio 60/5 A, 100/5 A and 150/5 A

Application

Straight-through transformer set in modular distribution board design according to DIN 43880 for installation in distribution boards. It is possible to route the measuring leads straight through the transformer and vertically to the standard mounting rail according to EN 60715.

With this type of construction, the current transformer is suitable for supply systems or outgoing conductors in connection with the installation of a 5TE8 switch or a 5TE1 disconnector as the primary connecting leads do not have to be interrupted.

Note:

Current transformers must not be operated with open terminals as this may cause dangerous high voltages, which may result in personal injuries and property damage. It also exposes the transformer to thermal overload.

Selection and ordering data

	U _e V AC	I _{sec} A	Measur- ing range A AC	MW	Order No.	Price 1 unit	PG	Weight 1 unit approx. kg	PS*/ P. unit Unit(s)
Current transformers	720	5	3 × 60 3 × 100 3 × 150	6	7KT1 200 7KT1 201 7KT1 202	027	0.460	1 unit	027

7KT1 200

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Measuring Devices

Notes

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