

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

BETA Low-Voltage Circuit Protection

19



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Note:
 More devices from the
 BETA low-voltage protection equip-
 ment range can be found in the Cata-
 log ET B1 2008.



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Introduction

Overview



High-capacity range 5SP4, 5SY4, 5SY5, 5SY6, 5SY7, 5SY8	Comfort range with plug-in terminal 5SJ6	Compact range 1 + N in 1 MW 5SY6 0	Universal range acc. to UL and IEC 5SJ4	Main miniature circuit breakers (SHU) 5SP3	Circuit breaker terminals 5SK9
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BETA miniature circuit breakers

Tripping characteristic	A, B, C, D	B, C	B, C	B, C, D	E	--
Rated current A	0.3 ... 125	10 ... 20	2 ... 40	0.3 ... 63	16 ... 100	0.5 ... 10
Rated short-circuit kA capacity	6, 10, 15, 25	6	6	14/10	25	--



NEOZED fuse systems 5SE2, 5SG	DIAZED fuse systems 5SA ... 5SD, 5SF, 5SH	Cylindrical fuse systems 3NW6, 3NW7, 3NW8	Class CC fuse system 3NW1, 3NW2 3NW3, 3NW7	LV HRC fuse links 3NA, 3ND, 3NY	LV HRC signal detectors 3NX	LV HRC fuse bases 3NH
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BETA low-voltage fuse systems

Operational classes	gG	gG	gG, aM	Slow/quick/slow, current limiting	gG, aM	--	--
Rated voltage V AC	400	500/690/750	400/500	600	400/500/690	690	690
V DC	250	500/600/750		150/300	250/400/440	600	250/440
Rated current range A	2 ... 100	2 ... 100	0.5 ... 100	0.6 ... 30	2 ... 1250	--	160 ... 1250



Lightning arresters, type 1 5SD7	Arrester combinations, type 1 and type 2 5SD7	Surge arresters, type 2 5SD7	Surge arresters, type 3 5SD7	Overvoltage protection adapters 5SD7
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BETA overvoltage protection devices

Rated voltage V AC	230/400	230/400	230 ... 415	24 ... 400	230
Rated arrester voltage V AC	350	350	260 ... 350	24 ... 230	275/360
Discharge capacity kA	75/100	75/100	20/40	1 ... 3	0.6 ... 5



Multimeters 7KT1 30	Multiconverters 7KT1 31, 7KT1 34, 7KT1 35	LAN couplers 7KT1 390	E-counters 7KT1 5	E-counters instabus KNX EIB 7KT1 16	Current transformers 7KT1 2	Measuring selector switches 7KT9 0
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BETA three-phase measuring devices

Application	Display of 23 electrical measured values for switch- gear assemblies, infeed or outgoing feeders.	Display of 35 electrical measured values and con- sumption values in switchgear assem- blies, infeed or outgoing feeders.	Up-to-date consumption data of the multimeter available worldwide over LAN data commu- nication.	Measurement of consumption data and plant capacity utilization in three-phase systems of system components, offices or holiday apartments.	Straight-through transformers for installation in distribution boards and non-contact measuring of primary currents.	For switching over the phases for voltmeters and ammeters
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BETA Low-Voltage Circuit Protection

Introduction



RCCBs, type A
5SM3



RCCBs,
RCBOs,
SEQUENCE, type B
5SM3, 5SU1



RC units, type A
5SM2



RCCBs, type A
5SU1

BETA residual current operated circuit breakers

Types of current	Type A	Type B	Type A	Type A
Rated current	A 16 ... 125	25 ... 125	10 ... 1000	6 ... 125
Rated residual current	mA 10 ... 1000	30 ... 500	0.3 ... 100	10 ... 300



SITOR,
LV HRC design
3NC, 3NE



SITOR,
cylindrical fuse design
3NC



SILIZED,
NEOZED and DIAZED design
5STE1, 5SD

BETA SITOR semiconductor fuses

Operational classes	aR, gR, gS	aR	gR
Rated voltage	V AC 500 ... 2500 V DC 700	600/690 400/700	400/500 250/500
Rated current range	A 16 ... 1600	1 ... 100	10 ... 100



Distribution board
components
8GK, 8JH, 8JK, 8US



Built-in components
5SF, 5SG, 5SH



Mounting components
5SH, 8US



Socket outlets
5TE6

BETA SR60 busbar systems

Application	Busbars, busbar supports and covers	NEOZED/DIAZED bus-mounting bases, NEOZED bus-mounting switch disconnectors	Bottom troughs, reserve section covers, cover profiles
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BETA socket outlets

Application	Power supply for maintenance of distribution boards
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E-counters
7KT1 140



Digital measuring
devices
7KT1 110, 7KT1 120



Analog measuring devices
7KT1 0



Time and
pulse counters
7KT5 8



Time counters for
front mounting
7KT1 50, 7KT1 60

BETA single-phase measuring devices

Application	Measuring of kWh in single-phase networks	Measuring of voltages and currents with large three-digit LED displays	Measuring of voltages and currents for monitoring input and output currents	For monitoring operating hours and starting operations for planning preventative maintenance tasks and preventing sudden shutdowns	For monitoring operating hours and starting operations for planning preventative maintenance tasks and preventing sudden shutdowns
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BETA Protecting Miniature Circuit Breakers

High-capacity range

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Overview

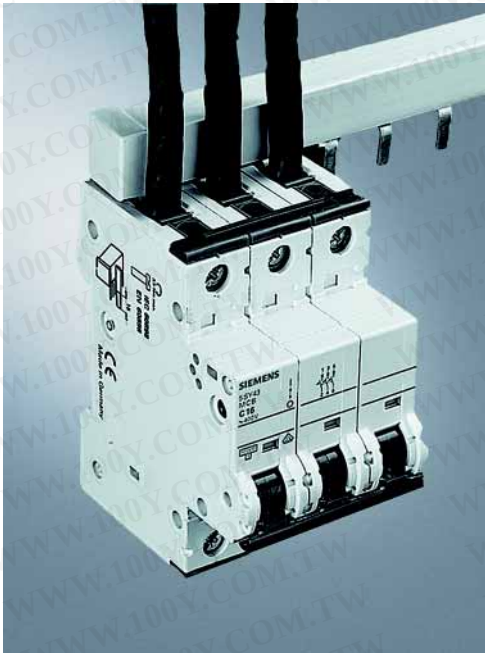
MCBs are used to protect plants in buildings and for industrial applications. The devices can be used as main switches for the disconnection or isolation of plants.

For industrial applications and in plant engineering, miniature circuit breakers can be supplemented with additional components, such as auxiliary switches, fault signal contacts, shunt trips, undervoltage releases and RC units.

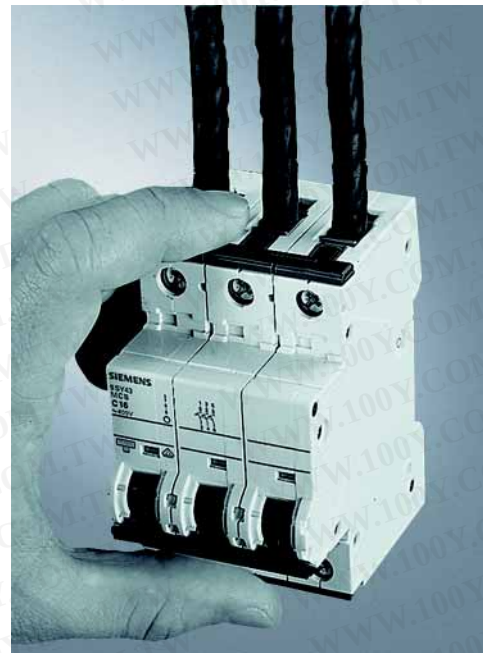
The devices are approved for worldwide use according to IEC standards for systems up to 250/440 V AC. 60 V DC per pole is permitted in DC systems.

For North America, we also have additional approval to UL 1077 for use as "supplementary protectors" in systems up to 277/480 V AC. For use in ship building, the devices also have numerous certifications according to shipping classifications; BV, DNV, GL and LRS. For more details see Catalog ET B1 2008, Chapter "Miniature Circuit Breakers, Configuration".

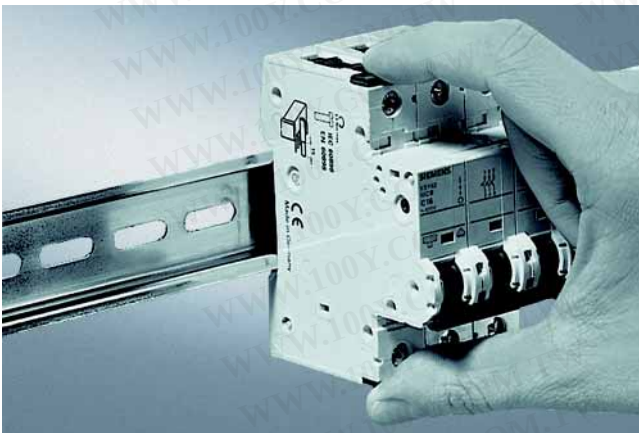
Benefits



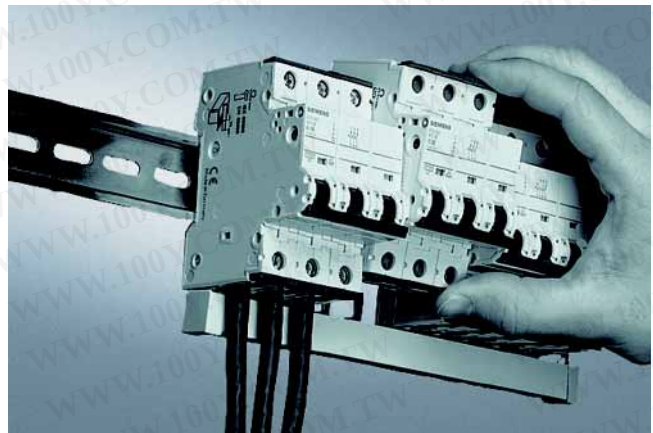
- The infeed can be either from the top or the bottom as the terminals are identical
- Clear and visible conductor connection that can be easily checked in front of the busbar.
- Large and easily accessible wiring space enables easy insertion of conductor in the terminal.



- Integrated movable terminal covers located at the cable entries ensure the terminals are fully insulated when the screws are tightened
- The effective touch protection when grasping the device considerably exceeds the requirements of VBG 4/BGV A3.



- Manual snap-on fixing and release systems that require no tools enable fast assembly and disassembly of MCBs.



- The MCBs can be quickly and easily removed from the busbar assembly by hand if connections need to be changed.
- Time saving if parts need to be replaced because the busbars no longer need to be freed from the adjacent miniature circuit breakers.

BETA Protecting Miniature Circuit Breakers

High-capacity range

Selection and ordering data

6 000 3	I_n	MW	DT	Characteristic B		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg		
	A			Order No.	Price per PU						
	Miniature circuit breakers										
	1P, 230/400 V AC										
	2	1	B	5SY6 102-6		002	1	1 unit	0.165		
	4		B	5SY6 104-6		002	1	1 unit	0.165		
	6		▶	5SY6 106-6		002	1	1 unit	0.165		
	10		▶	5SY6 110-6		002	1	1 unit	0.165		
	13		A	5SY6 113-6		002	1	1 unit	0.165		
	16		▶	5SY6 116-6		002	1	1 unit	0.165		
	20		A	5SY6 120-6		002	1	1 unit	0.165		
	25		A	5SY6 125-6		002	1	1 unit	0.165		
	32		A	5SY6 132-6		002	1	1 unit	0.165		
	40		B	5SY6 140-6		002	1	1 unit	0.165		
	50		B	5SY6 150-6		002	1	1 unit	0.165		
63	B		5SY6 163-6		002	1	1 unit	0.165			
	1P+N, 230 V AC										
	6	2	A	5SY6 506-6		002	1	1 unit	0.330		
	10		A	5SY6 510-6		002	1	1 unit	0.330		
	13		A	5SY6 513-6		002	1	1 unit	0.330		
	16		A	5SY6 516-6		002	1	1 unit	0.330		
	20		B	5SY6 520-6		002	1	1 unit	0.330		
	25		B	5SY6 525-6		002	1	1 unit	0.330		
	32		B	5SY6 532-6		002	1	1 unit	0.330		
	40		C	5SY6 540-6		002	1	1 unit	0.330		
	50		C	5SY6 550-6		002	1	1 unit	0.330		
	63		C	5SY6 563-6		002	1	1 unit	0.330		
			2P, 400 V AC								
			6	2	A	5SY6 206-6		002	1	1 unit	0.330
10			A		5SY6 210-6		002	1	1 unit	0.330	
13		B	5SY6 213-6			002	1	1 unit	0.330		
16		A	5SY6 216-6			002	1	1 unit	0.330		
20		B	5SY6 220-6			002	1	1 unit	0.330		
25		B	5SY6 225-6			002	1	1 unit	0.330		
32		A	5SY6 232-6			002	1	1 unit	0.330		
40		B	5SY6 240-6			002	1	1 unit	0.330		
50		C	5SY6 250-6			002	1	1 unit	0.330		
63		C	5SY6 263-6			002	1	1 unit	0.330		
		3P, 400 V AC									
		6	3		A	5SY6 306-6		002	1	1 unit	0.495
	10	A			5SY6 310-6		002	1	1 unit	0.495	
	13	B		5SY6 313-6		002	1	1 unit	0.495		
	16	▶		5SY6 316-6		002	1	1 unit	0.495		
	20	A		5SY6 320-6		002	1	1 unit	0.495		
	25	A		5SY6 325-6		002	1	1 unit	0.495		
	32	A		5SY6 332-6		002	1	1 unit	0.495		
	40	A		5SY6 340-6		002	1	1 unit	0.495		
	50	B		5SY6 350-6		002	1	1 unit	0.495		
	63	B		5SY6 363-6		002	1	1 unit	0.495		
		3P+N, 400 V AC									
		6		4	B	5SY6 606-6		002	1	1 unit	0.660
10		B			5SY6 610-6		002	1	1 unit	0.660	
13		B	5SY6 613-6			002	1	1 unit	0.660		
16		A	5SY6 616-6			002	1	1 unit	0.660		
20		A	5SY6 620-6			002	1	1 unit	0.660		
25		B	5SY6 625-6			002	1	1 unit	0.660		
32		B	5SY6 632-6			002	1	1 unit	0.660		
40		C	5SY6 640-6			002	1	1 unit	0.660		
50		C	5SY6 650-6			002	1	1 unit	0.660		
63		C	5SY6 663-6			002	1	1 unit	0.660		
		4P, 400 V AC									
		6	4		C	5SY6 406-6		002	1	1 unit	0.660
	10	B			5SY6 410-6		002	1	1 unit	0.660	
	13	C		5SY6 413-6		002	1	1 unit	0.660		
	16	A		5SY6 416-6		002	1	1 unit	0.660		
	20	A		5SY6 420-6		002	1	1 unit	0.660		
	25	A		5SY6 425-6		002	1	1 unit	0.660		
	32	B		5SY6 432-6		002	1	1 unit	0.660		
	40	B		5SY6 440-6		002	1	1 unit	0.660		
	50	B		5SY6 450-6		002	1	1 unit	0.660		
	63	B		5SY6 463-6		002	1	1 unit	0.660		

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

High-capacity range

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6 000				Characteristic C		Characteristic D							
3	I _n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Miniature circuit breakers 6000 A													
1P, 230/400 V AC													
	0.3	1	A	5SY6 114-7		003	C	5SY6 114-8		004	1	1 unit	0.165
	0.5		A	5SY6 105-7		003	A	5SY6 105-8		004	1	1 unit	0.165
	1		▶	5SY6 101-7		003	A	5SY6 101-8		004	1	1 unit	0.165
	1.6		A	5SY6 115-7		003	C	5SY6 115-8		004	1	1 unit	0.147
	2		▶	5SY6 102-7		003	A	5SY6 102-8		004	1	1 unit	0.165
	3		A	5SY6 103-7		003	A	5SY6 103-8		004	1	1 unit	0.165
	4		▶	5SY6 104-7		003	A	5SY6 104-8		004	1	1 unit	0.165
	6		▶	5SY6 106-7		003	A	5SY6 106-8		004	1	1 unit	0.165
	8		A	5SY6 108-7		003	A	5SY6 108-8		004	1	1 unit	0.165
	10		▶	5SY6 110-7		003	A	5SY6 110-8		004	1	1 unit	0.165
	13		A	5SY6 113-7		003	A	5SY6 113-8		004	1	1 unit	0.165
	16		▶	5SY6 116-7		003	A	5SY6 116-8		004	1	1 unit	0.165
	20		▶	5SY6 120-7		003	A	5SY6 120-8		004	1	1 unit	0.165
	25		▶	5SY6 125-7		003	A	5SY6 125-8		004	1	1 unit	0.165
	32		▶	5SY6 132-7		003	B	5SY6 132-8		004	1	1 unit	0.165
	40		A	5SY6 140-7		003	B	5SY6 140-8		004	1	1 unit	0.165
	50		A	5SY6 150-7		003	B	5SY6 150-8		004	1	1 unit	0.165
	63		A	5SY6 163-7		003	B	5SY6 163-8		004	1	1 unit	0.165
1P+N, 230 V AC													
	0.3	2	B	5SY6 514-7		003	C	5SY6 514-8		004	1	1 unit	0.330
	0.5		A	5SY6 505-7		003	B	5SY6 505-8		004	1	1 unit	0.330
	1		A	5SY6 501-7		003	C	5SY6 501-8		004	1	1 unit	0.330
	1.6		B	5SY6 515-7		003	B	5SY6 515-8		004	1	1 unit	0.330
	2		A	5SY6 502-7		003	B	5SY6 502-8		004	1	1 unit	0.330
	3		A	5SY6 503-7		003	B	5SY6 503-8		004	1	1 unit	0.330
	4		A	5SY6 504-7		003	B	5SY6 504-8		004	1	1 unit	0.330
	6		A	5SY6 506-7		003	A	5SY6 506-8		004	1	1 unit	0.330
	8		B	5SY6 508-7		003	B	5SY6 508-8		004	1	1 unit	0.330
	10		A	5SY6 510-7		003	B	5SY6 510-8		004	1	1 unit	0.330
	13		A	5SY6 513-7		003	C	5SY6 513-8		004	1	1 unit	0.330
	16		▶	5SY6 516-7		003	A	5SY6 516-8		004	1	1 unit	0.330
	20		A	5SY6 520-7		003	C	5SY6 520-8		004	1	1 unit	0.330
	25		A	5SY6 525-7		003	C	5SY6 525-8		004	1	1 unit	0.330
	32		A	5SY6 532-7		003	C	5SY6 532-8		004	1	1 unit	0.330
	40		B	5SY6 540-7		003	C	5SY6 540-8		004	1	1 unit	0.330
	50		B	5SY6 550-7		003	C	5SY6 550-8		004	1	1 unit	0.330
	63		B	5SY6 563-7		003	C	5SY6 563-8		004	1	1 unit	0.330
2P, 400 V AC													
	0.3	2	B	5SY6 214-7		003	B	5SY6 214-8		004	1	1 unit	0.330
	0.5		A	5SY6 205-7		003	A	5SY6 205-8		004	1	1 unit	0.330
	1		A	5SY6 201-7		003	A	5SY6 201-8		004	1	1 unit	0.330
	1.6		A	5SY6 215-7		003	A	5SY6 215-8		004	1	1 unit	0.330
	2		▶	5SY6 202-7		003	A	5SY6 202-8		004	1	1 unit	0.330
	3		A	5SY6 203-7		003	A	5SY6 203-8		004	1	1 unit	0.330
	4		▶	5SY6 204-7		003	A	5SY6 204-8		004	1	1 unit	0.330
	6		▶	5SY6 206-7		003	A	5SY6 206-8		004	1	1 unit	0.330
	8		A	5SY6 208-7		003	A	5SY6 208-8		004	1	1 unit	0.330
	10		▶	5SY6 210-7		003	A	5SY6 210-8		004	1	1 unit	0.330
	13		A	5SY6 213-7		003	B	5SY6 213-8		004	1	1 unit	0.330
	16		▶	5SY6 216-7		003	A	5SY6 216-8		004	1	1 unit	0.330
	20		▶	5SY6 220-7		003	A	5SY6 220-8		004	1	1 unit	0.330
	25		A	5SY6 225-7		003	A	5SY6 225-8		004	1	1 unit	0.330
	32		A	5SY6 232-7		003	A	5SY6 232-8		004	1	1 unit	0.330
	40		A	5SY6 240-7		003	B	5SY6 240-8		004	1	1 unit	0.330
	50		A	5SY6 250-7		003	B	5SY6 250-8		004	1	1 unit	0.330
	63		A	5SY6 263-7		003	B	5SY6 263-8		004	1	1 unit	0.330

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BETA Protecting Miniature Circuit Breakers

High-capacity range

6 000 3		I _n	MW	DT	Characteristic C		PG	DT	Characteristic D		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
					Order No.	Price per PU			Order No.	Price per PU				
A														
Miniature circuit breakers 6000 A														
3P, 400 V AC														
	0.3	3	C	5SY6 314-7		003	C	5SY6 314-8		004	1	1 unit	0.495	
	0.5		A	5SY6 305-7		003	C	5SY6 305-8		004	1	1 unit	0.495	
	1		A	5SY6 301-7		003	A	5SY6 301-8		004	1	1 unit	0.495	
	1.6		B	5SY6 315-7		003	C	5SY6 315-8		004	1	1 unit	0.495	
	2		A	5SY6 302-7		003	A	5SY6 302-8		004	1	1 unit	0.495	
	3		A	5SY6 303-7		003	A	5SY6 303-8		004	1	1 unit	0.495	
	4		A	5SY6 304-7		003	A	5SY6 304-8		004	1	1 unit	0.495	
	6		▶	5SY6 306-7		003	A	5SY6 306-8		004	1	1 unit	0.495	
	8		A	5SY6 308-7		003	B	5SY6 308-8		004	1	1 unit	0.495	
	10		▶	5SY6 310-7		003	A	5SY6 310-8		004	1	1 unit	0.495	
	13		▶	5SY6 313-7		003	B	5SY6 313-8		004	1	1 unit	0.495	
	16		▶	5SY6 316-7		003	A	5SY6 316-8		004	1	1 unit	0.495	
	20		▶	5SY6 320-7		003	A	5SY6 320-8		004	1	1 unit	0.495	
	25		▶	5SY6 325-7		003	A	5SY6 325-8		004	1	1 unit	0.495	
	32		▶	5SY6 332-7		003	A	5SY6 332-8		004	1	1 unit	0.495	
	40		A	5SY6 340-7		003	A	5SY6 340-8		004	1	1 unit	0.495	
	50		A	5SY6 350-7		003	A	5SY6 350-8		004	1	1 unit	0.495	
	63		A	5SY6 363-7		003	A	5SY6 363-8		004	1	1 unit	0.495	
3P+N, 400 V AC														
	0.3	4	C	5SY6 614-7		003	C	5SY6 614-8		004	1	1 unit	0.660	
	0.5		C	5SY6 605-7		003	C	5SY6 605-8		004	1	1 unit	0.660	
	1		C	5SY6 601-7		003	C	5SY6 601-8		004	1	1 unit	0.660	
	1.6		C	5SY6 615-7		003	C	5SY6 615-8		004	1	1 unit	0.660	
	2		A	5SY6 602-7		003	C	5SY6 602-8		004	1	1 unit	0.660	
	3		C	5SY6 603-7		003	C	5SY6 603-8		004	1	1 unit	0.660	
	4		B	5SY6 604-7		003	C	5SY6 604-8		004	1	1 unit	0.660	
	6		A	5SY6 606-7		003	A	5SY6 606-8		004	1	1 unit	0.660	
	8		C	5SY6 608-7		003	C	5SY6 608-8		004	1	1 unit	0.660	
	10		A	5SY6 610-7		003	B	5SY6 610-8		004	1	1 unit	0.660	
	13		B	5SY6 613-7		003	C	5SY6 613-8		004	1	1 unit	0.660	
	16		▶	5SY6 616-7		003	B	5SY6 616-8		004	1	1 unit	0.660	
	20		A	5SY6 620-7		003	B	5SY6 620-8		004	1	1 unit	0.660	
	25		A	5SY6 625-7		003	B	5SY6 625-8		004	1	1 unit	0.660	
	32		A	5SY6 632-7		003	B	5SY6 632-8		004	1	1 unit	0.660	
	40		A	5SY6 640-7		003	B	5SY6 640-8		004	1	1 unit	0.660	
	50		A	5SY6 650-7		003	B	5SY6 650-8		004	1	1 unit	0.660	
	63		A	5SY6 663-7		003	B	5SY6 663-8		004	1	1 unit	0.660	
4P, 400 V AC														
	0.3	4	C	5SY6 414-7		003	C	5SY6 414-8		004	1	1 unit	0.660	
	0.5		C	5SY6 405-7		003	C	5SY6 405-8		004	1	1 unit	0.660	
	1		B	5SY6 401-7		003	C	5SY6 401-8		004	1	1 unit	0.660	
	1.6		C	5SY6 415-7		003	C	5SY6 415-8		004	1	1 unit	0.660	
	2		A	5SY6 402-7		003	C	5SY6 402-8		004	1	1 unit	0.660	
	3		B	5SY6 403-7		003	C	5SY6 403-8		004	1	1 unit	0.660	
	4		B	5SY6 404-7		003	C	5SY6 404-8		004	1	1 unit	0.660	
	6		A	5SY6 406-7		003	B	5SY6 406-8		004	1	1 unit	0.660	
	8		B	5SY6 408-7		003	C	5SY6 408-8		004	1	1 unit	0.660	
	10		A	5SY6 410-7		003	A	5SY6 410-8		004	1	1 unit	0.660	
	13		A	5SY6 413-7		003	C	5SY6 413-8		004	1	1 unit	0.660	
	16		▶	5SY6 416-7		003	A	5SY6 416-8		004	1	1 unit	0.660	
	20		A	5SY6 420-7		003	A	5SY6 420-8		004	1	1 unit	0.660	
	25		▶	5SY6 425-7		003	A	5SY6 425-8		004	1	1 unit	0.660	
	32		▶	5SY6 432-7		003	A	5SY6 432-8		004	1	1 unit	0.660	
	40		▶	5SY6 440-7		003	A	5SY6 440-8		004	1	1 unit	0.660	
	50		A	5SY6 450-7		003	A	5SY6 450-8		004	1	1 unit	0.660	
	63		A	5SY6 463-7		003	▶	5SY6 463-8		004	1	1 unit	0.660	

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

High-capacity range

勝特力材料 886-3-5753170
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勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

10 000				Characteristic A		Characteristic B								
	3	I _n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A														
Miniature circuit breakers 10000 A														
1P, 230/400 V AC														
	1	1	1	A	5SY4 101-5		001	--				1	1 unit	0.165
		1.6		B	5SY4 115-5		001	--				1	1 unit	0.165
		2		A	5SY4 102-5		001	--				1	1 unit	0.165
		3		A	5SY4 103-5		001	--				1	1 unit	0.165
		4		A	5SY4 104-5		001	--				1	1 unit	0.165
		6		A	5SY4 106-5		001	A	5SY4 106-6		002	1	1 unit	0.165
		8		B	5SY4 108-5		001	--				1	1 unit	0.165
		10		A	5SY4 110-5		001	▶	5SY4 110-6		002	1	1 unit	0.165
		13		C	5SY4 113-5		001	A	5SY4 113-6		002	1	1 unit	0.165
		16		A	5SY4 116-5		001	▶	5SY4 116-6		002	1	1 unit	0.165
		20		A	5SY4 120-5		001	A	5SY4 120-6		002	1	1 unit	0.165
		25		A	5SY4 125-5		001	▶	5SY4 125-6		002	1	1 unit	0.165
		32		B	5SY4 132-5		001	A	5SY4 132-6		002	1	1 unit	0.165
		40		B	5SY4 140-5		001	B	5SY4 140-6		002	1	1 unit	0.165
		50		C	5SY4 150-5		001	B	5SY4 150-6		002	1	1 unit	0.165
		63		C	5SY4 163-5		001	B	5SY4 163-6		002	1	1 unit	0.165
		80		--	--			C	5SY4 180-6		002	1	1 unit	0.162
1P+N, 230 V AC														
	2	1	2	C	5SY4 501-5		001	--				1	1 unit	0.330
		1.6		B	5SY4 515-5		001	--				1	1 unit	0.330
		2		B	5SY4 502-5		001	--				1	1 unit	0.330
		3		C	5SY4 503-5		001	--				1	1 unit	0.330
		4		B	5SY4 504-5		001	--				1	1 unit	0.330
		6		C	5SY4 506-5		001	A	5SY4 506-6		002	1	1 unit	0.330
		8		C	5SY4 508-5		001	--				1	1 unit	0.330
		10		B	5SY4 510-5		001	A	5SY4 510-6		002	1	1 unit	0.330
		13		C	5SY4 513-5		001	A	5SY4 513-6		002	1	1 unit	0.330
		16		C	5SY4 516-5		001	A	5SY4 516-6		002	1	1 unit	0.330
		20		C	5SY4 520-5		001	B	5SY4 520-6		002	1	1 unit	0.330
		25		C	5SY4 525-5		001	B	5SY4 525-6		002	1	1 unit	0.330
		32		C	5SY4 532-5		001	B	5SY4 532-6		002	1	1 unit	0.330
		40		C	5SY4 540-5		001	C	5SY4 540-6		002	1	1 unit	0.330
		50		C	5SY4 550-5		001	C	5SY4 550-6		002	1	1 unit	0.330
		63		C	5SY4 563-5		001	C	5SY4 563-6		002	1	1 unit	0.330
2P, 400 V AC														
	2	1	2	B	5SY4 201-5		001	--				1	1 unit	0.330
		1.6		B	5SY4 215-5		001	--				1	1 unit	0.330
		2		A	5SY4 202-5		001	--				1	1 unit	0.330
		3		B	5SY4 203-5		001	--				1	1 unit	0.330
		4		A	5SY4 204-5		001	--				1	1 unit	0.330
		6		A	5SY4 206-5		001	A	5SY4 206-6		002	1	1 unit	0.330
		8		C	5SY4 208-5		001	--				1	1 unit	0.330
		10		A	5SY4 210-5		001	A	5SY4 210-6		002	1	1 unit	0.330
		13		C	5SY4 213-5		001	B	5SY4 213-6		002	1	1 unit	0.330
		16		A	5SY4 216-5		001	▶	5SY4 216-6		002	1	1 unit	0.330
		20		B	5SY4 220-5		001	A	5SY4 220-6		002	1	1 unit	0.330
		25		B	5SY4 225-5		001	A	5SY4 225-6		002	1	1 unit	0.330
		32		A	5SY4 232-5		001	B	5SY4 232-6		002	1	1 unit	0.330
		40		B	5SY4 240-5		001	B	5SY4 240-6		002	1	1 unit	0.330
		50		C	5SY4 250-5		001	B	5SY4 250-6		002	1	1 unit	0.330
		63		C	5SY4 263-5		001	B	5SY4 263-6		002	1	1 unit	0.330
		80		--	--			C	5SY4 280-6		002	1	1 unit	0.324

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BETA Protecting Miniature Circuit Breakers

High-capacity range

10 000				Characteristic A				Characteristic B							
3		I_n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
		A													
		Miniature circuit breakers 10000 A													
		3P, 400 V AC													
	1		3	C	5SY4 301-5		001	--				1	1 unit	0.495	
	1.6			C	5SY4 315-5		001	--				1	1 unit	0.495	
	2			B	5SY4 302-5		001	--				1	1 unit	0.495	
	3			C	5SY4 303-5		001	--				1	1 unit	0.495	
	4			B	5SY4 304-5		001	--				1	1 unit	0.495	
	6			B	5SY4 306-5		001	A	5SY4 306-6		002	1	1 unit	0.495	
	8			C	5SY4 308-5		001	--				1	1 unit	0.495	
	10			B	5SY4 310-5		001	▶	5SY4 310-6		002	1	1 unit	0.495	
	13			C	5SY4 313-5		001	B	5SY4 313-6		002	1	1 unit	0.495	
	16			A	5SY4 316-5		001	▶	5SY4 316-6		002	1	1 unit	0.495	
	20			B	5SY4 320-5		001	A	5SY4 320-6		002	1	1 unit	0.495	
	25			B	5SY4 325-5		001	A	5SY4 325-6		002	1	1 unit	0.495	
	32			B	5SY4 332-5		001	▶	5SY4 332-6		002	1	1 unit	0.495	
	40			B	5SY4 340-5		001	A	5SY4 340-6		002	1	1 unit	0.495	
	50			B	5SY4 350-5		001	A	5SY4 350-6		002	1	1 unit	0.495	
	63			C	5SY4 363-5		001	A	5SY4 363-6		002	1	1 unit	0.495	
	80			—				B	5SY4 380-6		002	1	1 unit	0.486	
		3P+N, 400 V AC													
	1		4	C	5SY4 601-5		001	--				1	1 unit	0.660	
	1.6			C	5SY4 615-5		001	--				1	1 unit	0.660	
	2			C	5SY4 602-5		001	--				1	1 unit	0.660	
	3			C	5SY4 603-5		001	--				1	1 unit	0.660	
	4			C	5SY4 604-5		001	--				1	1 unit	0.660	
	6			C	5SY4 606-5		001	B	5SY4 606-6		002	1	1 unit	0.660	
	8			C	5SY4 608-5		001	--				1	1 unit	0.660	
	10			C	5SY4 610-5		001	B	5SY4 610-6		002	1	1 unit	0.660	
	13			C	5SY4 613-5		001	C	5SY4 613-6		002	1	1 unit	0.660	
	16			C	5SY4 616-5		001	A	5SY4 616-6		002	1	1 unit	0.660	
	20			C	5SY4 620-5		001	B	5SY4 620-6		002	1	1 unit	0.660	
	25			C	5SY4 625-5		001	A	5SY4 625-6		002	1	1 unit	0.660	
	32			C	5SY4 632-5		001	B	5SY4 632-6		002	1	1 unit	0.660	
	40			C	5SY4 640-5		001	C	5SY4 640-6		002	1	1 unit	0.660	
	50			C	5SY4 650-5		001	C	5SY4 650-6		002	1	1 unit	0.660	
	63			C	5SY4 663-5		001	A	5SY4 663-6		002	1	1 unit	0.660	
		4P, 400 V AC													
	1		4	C	5SY4 401-5		001	--				1	1 unit	0.660	
	1.6			C	5SY4 415-5		001	--				1	1 unit	0.660	
	2			C	5SY4 402-5		001	--				1	1 unit	0.660	
	3			C	5SY4 403-5		001	--				1	1 unit	0.660	
	4			C	5SY4 404-5		001	--				1	1 unit	0.660	
	6			C	5SY4 406-5		001	A	5SY4 406-6		002	1	1 unit	0.660	
	8			C	5SY4 408-5		001	--				1	1 unit	0.660	
	10			C	5SY4 410-5		001	B	5SY4 410-6		002	1	1 unit	0.660	
	13			C	5SY4 413-5		001	C	5SY4 413-6		002	1	1 unit	0.660	
	16			C	5SY4 416-5		001	A	5SY4 416-6		002	1	1 unit	0.660	
	20			C	5SY4 420-5		001	C	5SY4 420-6		002	1	1 unit	0.660	
	25			C	5SY4 425-5		001	B	5SY4 425-6		002	1	1 unit	0.660	
	32			C	5SY4 432-5		001	B	5SY4 432-6		002	1	1 unit	0.660	
	40			C	5SY4 440-5		001	B	5SY4 440-6		002	1	1 unit	0.660	
	50			C	5SY4 450-5		001	B	5SY4 450-6		002	1	1 unit	0.660	
	63			C	5SY4 463-5		001	B	5SY4 463-6		002	1	1 unit	0.660	
	80			—				B	5SY4 480-6		002	1	1 unit	0.648	

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

High-capacity range

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10 000 3				Characteristic C				Characteristic D					
I_n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
A													
Miniature circuit breakers 10000 A													
1P, 230/400 V AC													
0.3	1	B	5SY4 114-7		003	C	5SY4 114-8		004	1	1 unit	0.165	
0.5		A	5SY4 105-7		003	B	5SY4 105-8		004	1	1 unit	0.165	
1		▶	5SY4 101-7		003	A	5SY4 101-8		004	1	1 unit	0.165	
1.6		A	5SY4 115-7		003	B	5SY4 115-8		004	1	1 unit	0.165	
2		▶	5SY4 102-7		003	A	5SY4 102-8		004	1	1 unit	0.165	
3		A	5SY4 103-7		003	A	5SY4 103-8		004	1	1 unit	0.165	
4		▶	5SY4 104-7		003	A	5SY4 104-8		004	1	1 unit	0.165	
6		▶	5SY4 106-7		003	A	5SY4 106-8		004	1	1 unit	0.165	
8		A	5SY4 108-7		003	A	5SY4 108-8		004	1	1 unit	0.165	
10		▶	5SY4 110-7		003	A	5SY4 110-8		004	1	1 unit	0.165	
13		A	5SY4 113-7		003	B	5SY4 113-8		004	1	1 unit	0.165	
16		▶	5SY4 116-7		003	A	5SY4 116-8		004	1	1 unit	0.165	
20		▶	5SY4 120-7		003	A	5SY4 120-8		004	1	1 unit	0.165	
25		▶	5SY4 125-7		003	B	5SY4 125-8		004	1	1 unit	0.165	
32		▶	5SY4 132-7		003	B	5SY4 132-8		004	1	1 unit	0.165	
40		A	5SY4 140-7		003	B	5SY4 140-8		004	1	1 unit	0.165	
50		A	5SY4 150-7		003	B	5SY4 150-8		004	1	1 unit	0.165	
63		B	5SY4 163-7		003	B	5SY4 163-8		004	1	1 unit	0.165	
80		B	5SY4 180-7		003	--	--		004	1	1 unit	0.161	
1P+N, 230 V AC													
0.3	2	C	5SY4 514-7		003	C	5SY4 514-8		004	1	1 unit	0.330	
0.5		B	5SY4 505-7		003	C	5SY4 505-8		004	1	1 unit	0.330	
1		A	5SY4 501-7		003	B	5SY4 501-8		004	1	1 unit	0.330	
1.6		C	5SY4 515-7		003	C	5SY4 515-8		004	1	1 unit	0.330	
2		A	5SY4 502-7		003	A	5SY4 502-8		004	1	1 unit	0.330	
3		A	5SY4 503-7		003	B	5SY4 503-8		004	1	1 unit	0.330	
4		A	5SY4 504-7		003	B	5SY4 504-8		004	1	1 unit	0.330	
6		A	5SY4 506-7		003	A	5SY4 506-8		004	1	1 unit	0.330	
8		B	5SY4 508-7		003	C	5SY4 508-8		004	1	1 unit	0.330	
10		A	5SY4 510-7		003	A	5SY4 510-8		004	1	1 unit	0.330	
13		A	5SY4 513-7		003	B	5SY4 513-8		004	1	1 unit	0.330	
16		A	5SY4 516-7		003	A	5SY4 516-8		004	1	1 unit	0.330	
20		A	5SY4 520-7		003	B	5SY4 520-8		004	1	1 unit	0.330	
25		A	5SY4 525-7		003	B	5SY4 525-8		004	1	1 unit	0.330	
32		A	5SY4 532-7		003	B	5SY4 532-8		004	1	1 unit	0.330	
40		B	5SY4 540-7		003	C	5SY4 540-8		004	1	1 unit	0.330	
50		C	5SY4 550-7		003	C	5SY4 550-8		004	1	1 unit	0.330	
63		C	5SY4 563-7		003	C	5SY4 563-8		004	1	1 unit	0.330	
80		B	5SY4 580-7		003	--	--		004	1	1 unit	0.323	
2P, 400 V AC													
0.3	2	A	5SY4 214-7		003	B	5SY4 214-8		004	1	1 unit	0.330	
0.5		A	5SY4 205-7		003	A	5SY4 205-8		004	1	1 unit	0.330	
1		A	5SY4 201-7		003	A	5SY4 201-8		004	1	1 unit	0.330	
1.6		A	5SY4 215-7		003	A	5SY4 215-8		004	1	1 unit	0.330	
2		A	5SY4 202-7		003	A	5SY4 202-8		004	1	1 unit	0.330	
3		A	5SY4 203-7		003	A	5SY4 203-8		004	1	1 unit	0.330	
4		A	5SY4 204-7		003	A	5SY4 204-8		004	1	1 unit	0.330	
6		A	5SY4 206-7		003	A	5SY4 206-8		004	1	1 unit	0.330	
8		A	5SY4 208-7		003	A	5SY4 208-8		004	1	1 unit	0.330	
10		▶	5SY4 210-7		003	A	5SY4 210-8		004	1	1 unit	0.330	
13		A	5SY4 213-7		003	A	5SY4 213-8		004	1	1 unit	0.330	
16		▶	5SY4 216-7		003	A	5SY4 216-8		004	1	1 unit	0.330	
20		A	5SY4 220-7		003	A	5SY4 220-8		004	1	1 unit	0.330	
25		A	5SY4 225-7		003	A	5SY4 225-8		004	1	1 unit	0.330	
32		A	5SY4 232-7		003	A	5SY4 232-8		004	1	1 unit	0.330	
40		A	5SY4 240-7		003	A	5SY4 240-8		004	1	1 unit	0.330	
50		A	5SY4 250-7		003	B	5SY4 250-8		004	1	1 unit	0.330	
63		A	5SY4 263-7		003	B	5SY4 263-8		004	1	1 unit	0.330	
80		B	5SY4 280-7		003	--	--		004	1	1 unit	0.323	

BETA Protecting Miniature Circuit Breakers

High-capacity range

10 000 3				Characteristic C				Characteristic D							
I_n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg			
A															
Miniature circuit breakers 10000 A															
3P, 400 V AC															
0.3	3	C	5SY4 314-7		003	C	5SY4 314-8		004	1	1 unit	0.495			
0.5		B	5SY4 305-7		003	B	5SY4 305-8		004	1	1 unit	0.495			
1		A	5SY4 301-7		003	A	5SY4 301-8		004	1	1 unit	0.495			
1.6		C	5SY4 315-7		003	B	5SY4 315-8		004	1	1 unit	0.495			
2		A	5SY4 302-7		003	A	5SY4 302-8		004	1	1 unit	0.495			
3		A	5SY4 303-7		003	A	5SY4 303-8		004	1	1 unit	0.495			
4		A	5SY4 304-7		003	A	5SY4 304-8		004	1	1 unit	0.495			
6		▶	5SY4 306-7		003	A	5SY4 306-8		004	1	1 unit	0.495			
8		A	5SY4 308-7		003	B	5SY4 308-8		004	1	1 unit	0.495			
10		▶	5SY4 310-7		003	A	5SY4 310-8		004	1	1 unit	0.495			
13		A	5SY4 313-7		003	B	5SY4 313-8		004	1	1 unit	0.495			
16		▶	5SY4 316-7		003	A	5SY4 316-8		004	1	1 unit	0.495			
20		▶	5SY4 320-7		003	A	5SY4 320-8		004	1	1 unit	0.495			
25		▶	5SY4 325-7		003	A	5SY4 325-8		004	1	1 unit	0.495			
32		▶	5SY4 332-7		003	A	5SY4 332-8		004	1	1 unit	0.495			
40		A	5SY4 340-7		003	A	5SY4 340-8		004	1	1 unit	0.495			
50		A	5SY4 350-7		003	A	5SY4 350-8		004	1	1 unit	0.495			
63		A	5SY4 363-7		003	A	5SY4 363-8		004	1	1 unit	0.495			
80		B	5SY4 380-7		003	--	--		004	1	1 unit	0.482			
3P+N, 400 V AC															
0.3	4	C	5SY4 614-7		003	C	5SY4 614-8		004	1	1 unit	0.660			
0.5		C	5SY4 605-7		003	C	5SY4 605-8		004	1	1 unit	0.660			
1		C	5SY4 601-7		003	C	5SY4 601-8		004	1	1 unit	0.660			
1.6		C	5SY4 615-7		003	C	5SY4 615-8		004	1	1 unit	0.660			
2		B	5SY4 602-7		003	C	5SY4 602-8		004	1	1 unit	0.660			
3		B	5SY4 603-7		003	C	5SY4 603-8		004	1	1 unit	0.660			
4		C	5SY4 604-7		003	C	5SY4 604-8		004	1	1 unit	0.660			
6		B	5SY4 606-7		003	C	5SY4 606-8		004	1	1 unit	0.660			
8		C	5SY4 608-7		003	C	5SY4 608-8		004	1	1 unit	0.660			
10		A	5SY4 610-7		003	B	5SY4 610-8		004	1	1 unit	0.660			
13		B	5SY4 613-7		003	C	5SY4 613-8		004	1	1 unit	0.660			
16		A	5SY4 616-7		003	A	5SY4 616-8		004	1	1 unit	0.660			
20		A	5SY4 620-7		003	B	5SY4 620-8		004	1	1 unit	0.660			
25		A	5SY4 625-7		003	A	5SY4 625-8		004	1	1 unit	0.660			
32		A	5SY4 632-7		003	A	5SY4 632-8		004	1	1 unit	0.660			
40		A	5SY4 640-7		003	A	5SY4 640-8		004	1	1 unit	0.660			
50		B	5SY4 650-7		003	A	5SY4 650-8		004	1	1 unit	0.660			
63		A	5SY4 663-7		003	B	5SY4 663-8		004	1	1 unit	0.660			
80		B	5SY4 680-7		003	--	--		004	1	1 unit	0.647			
4P, 400 V AC															
0.3	4	C	5SY4 414-7		003	C	5SY4 414-8		004	1	1 unit	0.660			
0.5		C	5SY4 405-7		003	C	5SY4 405-8		004	1	1 unit	0.660			
1		C	5SY4 401-7		003	C	5SY4 401-8		004	1	1 unit	0.660			
1.6		C	5SY4 415-7		003	C	5SY4 415-8		004	1	1 unit	0.660			
2		B	5SY4 402-7		003	C	5SY4 402-8		004	1	1 unit	0.660			
3		C	5SY4 403-7		003	C	5SY4 403-8		004	1	1 unit	0.660			
4		B	5SY4 404-7		003	C	5SY4 404-8		004	1	1 unit	0.660			
6		A	5SY4 406-7		003	B	5SY4 406-8		004	1	1 unit	0.660			
8		C	5SY4 408-7		003	C	5SY4 408-8		004	1	1 unit	0.660			
10		A	5SY4 410-7		003	A	5SY4 410-8		004	1	1 unit	0.660			
13		C	5SY4 413-7		003	C	5SY4 413-8		004	1	1 unit	0.660			
16		A	5SY4 416-7		003	▶	5SY4 416-8		004	1	1 unit	0.660			
20		A	5SY4 420-7		003	A	5SY4 420-8		004	1	1 unit	0.660			
25		A	5SY4 425-7		003	A	5SY4 425-8		004	1	1 unit	0.660			
32		A	5SY4 432-7		003	▶	5SY4 432-8		004	1	1 unit	0.660			
40		A	5SY4 440-7		003	A	5SY4 440-8		004	1	1 unit	0.660			
50		A	5SY4 450-7		003	A	5SY4 450-8		004	1	1 unit	0.660			
63		A	5SY4 463-7		003	A	5SY4 463-8		004	1	1 unit	0.660			
80		B	5SY4 480-7		003	--	--		004	1	1 unit	0.647			

BETA Protecting Miniature Circuit Breakers

High-capacity range

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

10 000		I_n	MW	DT	Characteristic B	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		A			Order No.					
		Miniature circuit breakers 10000 A, high current								
		1P, 230/400 V AC								
		80	1.5	B	5SP4 180-6		002	1	1 unit	0.258
		100		C	5SP4 191-6		002	1	1 unit	0.258
		125		B	5SP4 192-6		002	1	1 unit	0.258
		2P, 400 V AC								
		80	3	C	5SP4 280-6		002	1	1 unit	0.516
		100		C	5SP4 291-6		002	1	1 unit	0.516
		125		C	5SP4 292-6		002	1	1 unit	0.516
		3P, 400 V AC								
		80	4.5	B	5SP4 380-6		002	1	1 unit	0.762
		100		B	5SP4 391-6		002	1	1 unit	0.762
		125		C	5SP4 392-6		002	1	1 unit	0.762
		4P, 400 V AC								
		80	6	B	5SP4 480-6		002	1	1 unit	1.032
		100		C	5SP4 491-6		002	1	1 unit	1.032
		125		C	5SP4 492-6		002	1	1 unit	1.032

10 000		I_n	MW	DT	Characteristic C	Price per PU	PG	DT	Characteristic D	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		A			Order No.				Order No.					
		Miniature circuit breakers 10000 A, high current												
		1P, 230/400 V AC												
		80	1.5	A	5SP4 180-7		003	B	5SP4 180-8		004	1	1 unit	0.258
		100		A	5SP4 191-7		003	C	5SP4 191-8		004	1	1 unit	0.258
		125		A	5SP4 192-7		003		--			1	1 unit	0.258
		2P, 400 V AC												
		80	3	A	5SP4 280-7		003	C	5SP4 280-8		004	1	1 unit	0.516
		100		A	5SP4 291-7		003	C	5SP4 291-8		004	1	1 unit	0.516
		125		A	5SP4 292-7		003		--			1	1 unit	0.516
		3P, 400 V AC												
		80	4.5	A	5SP4 380-7		003	A	5SP4 380-8		004	1	1 unit	0.762
		100		A	5SP4 391-7		003	A	5SP4 391-8		004	1	1 unit	0.762
		125		A	5SP4 392-7		003		--			1	1 unit	0.762
		4P, 400 V AC												
		80	6	A	5SP4 480-7		003	A	5SP4 480-8		004	1	1 unit	1.032
		100		A	5SP4 491-7		003	C	5SP4 491-8		004	1	1 unit	1.032
		125		A	5SP4 492-7		003		--			1	1 unit	1.032

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BETA Protecting Miniature Circuit Breakers

High-capacity range

10 000				Characteristic B				Characteristic C							
3		I_n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
		A													
		Miniature circuit breakers 10000 A, universal current													
		1P, 230/400 V AC, 220 V DC													
		0.3	1		--			C	5SY5 114-7		003	1	1 unit	0.165	
		0.5			--			B	5SY5 105-7		003	1	1 unit	0.165	
		1			--			A	5SY5 101-7		003	1	1 unit	0.147	
		1.6			--			A	5SY5 115-7		003	1	1 unit	0.165	
		2		C	5SY5 102-6		002	A	5SY5 102-7		003	1	1 unit	0.165	
		3			--			A	5SY5 103-7		003	1	1 unit	0.165	
		4		B	5SY5 104-6		002	A	5SY5 104-7		003	1	1 unit	0.165	
		6		A	5SY5 106-6		002	▶	5SY5 106-7		003	1	1 unit	0.165	
		8			--			A	5SY5 108-7		003	1	1 unit	0.165	
		10		A	5SY5 110-6		002	▶	5SY5 110-7		003	1	1 unit	0.165	
		13		C	5SY5 113-6		002	B	5SY5 113-7		003	1	1 unit	0.165	
		16		A	5SY5 116-6		002	A	5SY5 116-7		003	1	1 unit	0.165	
		20		C	5SY5 120-6		002	A	5SY5 120-7		003	1	1 unit	0.165	
		25		C	5SY5 125-6		002	B	5SY5 125-7		003	1	1 unit	0.165	
		32		C	5SY5 132-6		002	B	5SY5 132-7		003	1	1 unit	0.165	
		40		C	5SY5 140-6		002	C	5SY5 140-7		003	1	1 unit	0.165	
		50		C	5SY5 150-6		002	C	5SY5 150-7		003	1	1 unit	0.165	
		63		C	5SY5 163-6		002	C	5SY5 163-7		003	1	1 unit	0.165	
		80	1.5		--			A	5SP5 180-7		003	1	1 unit	0.258	
		100			--			A	5SP5 191-7		003	1	1 unit	0.258	
		125			--			A	5SP5 192-7		003	1	1 unit	0.258	
		2P, 440 V AC, 440 V DC													
		0.3	2		--			C	5SY5 214-7		003	1	1 unit	0.330	
		0.5			--			B	5SY5 205-7		003	1	1 unit	0.330	
		1			--			A	5SY5 201-7		003	1	1 unit	0.330	
		1.6			--			B	5SY5 215-7		003	1	1 unit	0.330	
		2			--			▶	5SY5 202-7		003	1	1 unit	0.330	
		3			--			▶	5SY5 203-7		003	1	1 unit	0.330	
		4			--			A	5SY5 204-7		003	1	1 unit	0.330	
		6		A	5SY5 206-6		002	▶	5SY5 206-7		003	1	1 unit	0.330	
		8			--			B	5SY5 208-7		003	1	1 unit	0.330	
		10		A	5SY5 210-6		002	▶	5SY5 210-7		003	1	1 unit	0.330	
		13		C	5SY5 213-6		002	B	5SY5 213-7		003	1	1 unit	0.330	
		16		A	5SY5 216-6		002	▶	5SY5 216-7		003	1	1 unit	0.330	
		20		A	5SY5 220-6		002	A	5SY5 220-7		003	1	1 unit	0.330	
		25		C	5SY5 225-6		002	A	5SY5 225-7		003	1	1 unit	0.330	
		32		B	5SY5 232-6		002	B	5SY5 232-7		003	1	1 unit	0.330	
		40		C	5SY5 240-6		002	B	5SY5 240-7		003	1	1 unit	0.330	
		50		C	5SY5 250-6		002	A	5SY5 250-7		003	1	1 unit	0.330	
		63		C	5SY5 263-6		002	A	5SY5 263-7		003	1	1 unit	0.330	
		80	3		--			A	5SP5 280-7		003	1	1 unit	0.516	
		100			--			A	5SP5 291-7		003	1	1 unit	0.516	
		125			--			A	5SP5 292-7		003	1	1 unit	0.516	

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

High-capacity range

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15 000		3		I _n	MW	DT	Characteristic B		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg												
							Order No.	Price per PU																
A																								
Miniature circuit breakers 15000 A																								
	1P, 230/400 V AC																							
	6		1			▶	5SY7 106-6		002	1	1 unit	0.165												
	10					▶	5SY7 110-6		002	1	1 unit	0.165												
	13					C	5SY7 113-6		002	1	1 unit	0.165												
	16					▶	5SY7 116-6		002	1	1 unit	0.165												
	20					B	5SY7 120-6		002	1	1 unit	0.165												
	25					B	5SY7 125-6		002	1	1 unit	0.165												
	32					B	5SY7 132-6		002	1	1 unit	0.165												
	40					C	5SY7 140-6		002	1	1 unit	0.165												
	50					C	5SY7 150-6		002	1	1 unit	0.165												
63					C	5SY7 163-6		002	1	1 unit	0.165													
	1P+N, 230 V AC																							
	6		2			C	5SY7 506-6		002	1	1 unit	0.330												
	10					C	5SY7 510-6		002	1	1 unit	0.330												
	13					C	5SY7 513-6		002	1	1 unit	0.330												
	16					C	5SY7 516-6		002	1	1 unit	0.330												
	20					C	5SY7 520-6		002	1	1 unit	0.330												
	25					C	5SY7 525-6		002	1	1 unit	0.330												
	32					C	5SY7 532-6		002	1	1 unit	0.330												
	40					C	5SY7 540-6		002	1	1 unit	0.330												
	50					C	5SY7 550-6		002	1	1 unit	0.330												
63					C	5SY7 563-6		002	1	1 unit	0.330													
	2P, 400 V AC																							
	6		2			B	5SY7 206-6		002	1	1 unit	0.330												
	10					B	5SY7 210-6		002	1	1 unit	0.330												
	13					C	5SY7 213-6		002	1	1 unit	0.330												
	16					B	5SY7 216-6		002	1	1 unit	0.330												
	20					B	5SY7 220-6		002	1	1 unit	0.330												
	25					B	5SY7 225-6		002	1	1 unit	0.330												
	32					C	5SY7 232-6		002	1	1 unit	0.330												
	40					C	5SY7 240-6		002	1	1 unit	0.330												
	50					C	5SY7 250-6		002	1	1 unit	0.330												
63					C	5SY7 263-6		002	1	1 unit	0.330													
	3P, 400 V AC																							
	6		3			B	5SY7 306-6		002	1	1 unit	0.495												
	10					B	5SY7 310-6		002	1	1 unit	0.495												
	13					C	5SY7 313-6		002	1	1 unit	0.495												
	16					A	5SY7 316-6		002	1	1 unit	0.495												
	20					B	5SY7 320-6		002	1	1 unit	0.495												
	25					B	5SY7 325-6		002	1	1 unit	0.495												
	32					B	5SY7 332-6		002	1	1 unit	0.495												
	40					B	5SY7 340-6		002	1	1 unit	0.495												
	50					B	5SY7 350-6		002	1	1 unit	0.495												
63					C	5SY7 363-6		002	1	1 unit	0.495													
	3P+N, 400 V AC																							
	6		4			C	5SY7 606-6		002	1	1 unit	0.660												
	10					C	5SY7 610-6		002	1	1 unit	0.660												
	13					C	5SY7 613-6		002	1	1 unit	0.660												
	16					C	5SY7 616-6		002	1	1 unit	0.660												
	20					C	5SY7 620-6		002	1	1 unit	0.660												
	25					C	5SY7 625-6		002	1	1 unit	0.660												
	32					C	5SY7 632-6		002	1	1 unit	0.660												
	40					C	5SY7 640-6		002	1	1 unit	0.660												
	50					C	5SY7 650-6		002	1	1 unit	0.660												
63					C	5SY7 663-6		002	1	1 unit	0.660													
	4P, 400 V AC																							
	6		4			C	5SY7 406-6		002	1	1 unit	0.660												
	10					B	5SY7 410-6		002	1	1 unit	0.660												
	13					C	5SY7 413-6		002	1	1 unit	0.660												
	16					B	5SY7 416-6		002	1	1 unit	0.660												
	20					B	5SY7 420-6		002	1	1 unit	0.660												
	25					C	5SY7 425-6		002	1	1 unit	0.660												
	32					C	5SY7 432-6		002	1	1 unit	0.660												
	40					C	5SY7 440-6		002	1	1 unit	0.660												
	50					C	5SY7 450-6		002	1	1 unit	0.660												
63					C	5SY7 463-6		002	1	1 unit	0.660													

BETA Protecting Miniature Circuit Breakers

High-capacity range

15 000				Characteristic C				Characteristic D							
3	I _n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg		
	Miniature circuit breakers 15000 A														
	1P, 230/400 V AC														
	0.3	1	B	5SY7 114-7		003	C	5SY7 114-8		004	1	1 unit	0.165		
	0.5		B	5SY7 105-7		003	C	5SY7 105-8		004	1	1 unit	0.165		
	1		A	5SY7 101-7		003	C	5SY7 101-8		004	1	1 unit	0.165		
	1.6		B	5SY7 115-7		003	C	5SY7 115-8		004	1	1 unit	0.165		
	2		▶	5SY7 102-7		003	C	5SY7 102-8		004	1	1 unit	0.165		
	3		A	5SY7 103-7		003	C	5SY7 103-8		004	1	1 unit	0.165		
	4		A	5SY7 104-7		003	B	5SY7 104-8		004	1	1 unit	0.165		
	6		▶	5SY7 106-7		003	B	5SY7 106-8		004	1	1 unit	0.165		
	8		B	5SY7 108-7		003	C	5SY7 108-8		004	1	1 unit	0.165		
	10		▶	5SY7 110-7		003	B	5SY7 110-8		004	1	1 unit	0.165		
	13		B	5SY7 113-7		003	C	5SY7 113-8		004	1	1 unit	0.165		
	16		▶	5SY7 116-7		003	B	5SY7 116-8		004	1	1 unit	0.165		
	20		A	5SY7 120-7		003	C	5SY7 120-8		004	1	1 unit	0.165		
	25		B	5SY7 125-7		003	C	5SY7 125-8		004	1	1 unit	0.165		
	32		B	5SY7 132-7		003	C	5SY7 132-8		004	1	1 unit	0.165		
	40		B	5SY7 140-7		003	C	5SY7 140-8		004	1	1 unit	0.165		
	50		C	5SY7 150-7		003	C	5SY7 150-8		004	1	1 unit	0.165		
63		B	5SY7 163-7		003	C	5SY7 163-8		004	1	1 unit	0.165			
	1P+N, 230 V AC														
	0.3	2	C	5SY7 514-7		003	C	5SY7 514-8		004	1	1 unit	0.330		
	0.5		C	5SY7 505-7		003	C	5SY7 505-8		004	1	1 unit	0.330		
	1		B	5SY7 501-7		003	C	5SY7 501-8		004	1	1 unit	0.330		
	1.6		C	5SY7 515-7		003	C	5SY7 515-8		004	1	1 unit	0.330		
	2		B	5SY7 502-7		003	C	5SY7 502-8		004	1	1 unit	0.330		
	3		B	5SY7 503-7		003	C	5SY7 503-8		004	1	1 unit	0.330		
	4		B	5SY7 504-7		003	B	5SY7 504-8		004	1	1 unit	0.330		
	6		A	5SY7 506-7		003	C	5SY7 506-8		004	1	1 unit	0.330		
	8		C	5SY7 508-7		003	C	5SY7 508-8		004	1	1 unit	0.330		
	10		A	5SY7 510-7		003	C	5SY7 510-8		004	1	1 unit	0.330		
	13		B	5SY7 513-7		003	C	5SY7 513-8		004	1	1 unit	0.330		
	16		A	5SY7 516-7		003	B	5SY7 516-8		004	1	1 unit	0.330		
	20		B	5SY7 520-7		003	C	5SY7 520-8		004	1	1 unit	0.330		
	25		B	5SY7 525-7		003	C	5SY7 525-8		004	1	1 unit	0.330		
	32		B	5SY7 532-7		003	C	5SY7 532-8		004	1	1 unit	0.330		
	40		C	5SY7 540-7		003	C	5SY7 540-8		004	1	1 unit	0.330		
	50		C	5SY7 550-7		003	C	5SY7 550-8		004	1	1 unit	0.330		
	63		C	5SY7 563-7		003	C	5SY7 563-8		004	1	1 unit	0.330		
	2P, 400 V AC														
	0.3	2	C	5SY7 214-7		003	C	5SY7 214-8		004	1	1 unit	0.330		
	0.5		B	5SY7 205-7		003	C	5SY7 205-8		004	1	1 unit	0.330		
	1		A	5SY7 201-7		003	B	5SY7 201-8		004	1	1 unit	0.330		
	1.6		C	5SY7 215-7		003	C	5SY7 215-8		004	1	1 unit	0.330		
	2		A	5SY7 202-7		003	A	5SY7 202-8		004	1	1 unit	0.330		
	3		A	5SY7 203-7		003	B	5SY7 203-8		004	1	1 unit	0.330		
	4		A	5SY7 204-7		003	A	5SY7 204-8		004	1	1 unit	0.330		
	6		▶	5SY7 206-7		003	A	5SY7 206-8		004	1	1 unit	0.330		
	8		B	5SY7 208-7		003	B	5SY7 208-8		004	1	1 unit	0.330		
	10		▶	5SY7 210-7		003	A	5SY7 210-8		004	1	1 unit	0.330		
	13		B	5SY7 213-7		003	C	5SY7 213-8		004	1	1 unit	0.330		
	16		▶	5SY7 216-7		003	A	5SY7 216-8		004	1	1 unit	0.330		
	20		A	5SY7 220-7		003	B	5SY7 220-8		004	1	1 unit	0.330		
	25		A	5SY7 225-7		003	B	5SY7 225-8		004	1	1 unit	0.330		
	32		A	5SY7 232-7		003	C	5SY7 232-8		004	1	1 unit	0.330		
	40		A	5SY7 240-7		003	C	5SY7 240-8		004	1	1 unit	0.330		
	50		B	5SY7 250-7		003	C	5SY7 250-8		004	1	1 unit	0.330		
	63		B	5SY7 263-7		003	C	5SY7 263-8		004	1	1 unit	0.330		

BETA Protecting Miniature Circuit Breakers

High-capacity range

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
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15 000 3				Characteristic C		Characteristic D							
I_n	MW	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
A													
Miniature circuit breakers 15000 A													
3P, 400 V AC													
	0.3	3	C	5SY7 314-7		003	C	5SY7 314-8		004	1	1 unit	0.495
	0.5		C	5SY7 305-7		003	C	5SY7 305-8		004	1	1 unit	0.495
	1		C	5SY7 301-7		003	C	5SY7 301-8		004	1	1 unit	0.495
	1.6		C	5SY7 315-7		003	C	5SY7 315-8		004	1	1 unit	0.495
	2		B	5SY7 302-7		003	C	5SY7 302-8		004	1	1 unit	0.495
	3		C	5SY7 303-7		003	C	5SY7 303-8		004	1	1 unit	0.495
	4		A	5SY7 304-7		003	C	5SY7 304-8		004	1	1 unit	0.495
	6		A	5SY7 306-7		003	C	5SY7 306-8		004	1	1 unit	0.495
	8		C	5SY7 308-7		003	B	5SY7 308-8		004	1	1 unit	0.495
	10		A	5SY7 310-7		003	B	5SY7 310-8		004	1	1 unit	0.495
	13		B	5SY7 313-7		003	C	5SY7 313-8		004	1	1 unit	0.495
	16		▶	5SY7 316-7		003	A	5SY7 316-8		004	1	1 unit	0.495
	20		▶	5SY7 320-7		003	B	5SY7 320-8		004	1	1 unit	0.495
	25		▶	5SY7 325-7		003	A	5SY7 325-8		004	1	1 unit	0.495
	32		▶	5SY7 332-7		003	B	5SY7 332-8		004	1	1 unit	0.495
	40		▶	5SY7 340-7		003	B	5SY7 340-8		004	1	1 unit	0.495
	50		▶	5SY7 350-7		003	B	5SY7 350-8		004	1	1 unit	0.495
	63		▶	5SY7 363-7		003	B	5SY7 363-8		004	1	1 unit	0.495
3P+N, 400 V AC													
	0.3	4	C	5SY7 614-7		003	C	5SY7 614-8		004	1	1 unit	0.660
	0.5		C	5SY7 605-7		003	C	5SY7 605-8		004	1	1 unit	0.660
	1		C	5SY7 601-7		003	C	5SY7 601-8		004	1	1 unit	0.660
	1.6		C	5SY7 615-7		003	C	5SY7 615-8		004	1	1 unit	0.660
	2		C	5SY7 602-7		003	C	5SY7 602-8		004	1	1 unit	0.660
	3		C	5SY7 603-7		003	C	5SY7 603-8		004	1	1 unit	0.660
	4		C	5SY7 604-7		003	C	5SY7 604-8		004	1	1 unit	0.660
	6		C	5SY7 606-7		003	C	5SY7 606-8		004	1	1 unit	0.660
	8		C	5SY7 608-7		003	C	5SY7 608-8		004	1	1 unit	0.660
	10		B	5SY7 610-7		003	C	5SY7 610-8		004	1	1 unit	0.660
	13		C	5SY7 613-7		003	C	5SY7 613-8		004	1	1 unit	0.660
	16		A	5SY7 616-7		003	C	5SY7 616-8		004	1	1 unit	0.660
	20		B	5SY7 620-7		003	C	5SY7 620-8		004	1	1 unit	0.660
	25		B	5SY7 625-7		003	C	5SY7 625-8		004	1	1 unit	0.660
	32		B	5SY7 632-7		003	C	5SY7 632-8		004	1	1 unit	0.660
	40		B	5SY7 640-7		003	C	5SY7 640-8		004	1	1 unit	0.660
	50		B	5SY7 650-7		003	C	5SY7 650-8		004	1	1 unit	0.660
	63		B	5SY7 663-7		003	C	5SY7 663-8		004	1	1 unit	0.660
4P, 400 V AC													
	0.3	4	C	5SY7 414-7		003	C	5SY7 414-8		004	1	1 unit	0.660
	0.5		C	5SY7 405-7		003	C	5SY7 405-8		004	1	1 unit	0.660
	1		C	5SY7 401-7		003	C	5SY7 401-8		004	1	1 unit	0.660
	1.6		C	5SY7 415-7		003	C	5SY7 415-8		004	1	1 unit	0.660
	2		C	5SY7 402-7		003	C	5SY7 402-8		004	1	1 unit	0.660
	3		C	5SY7 403-7		003	C	5SY7 403-8		004	1	1 unit	0.660
	4		B	5SY7 404-7		003	C	5SY7 404-8		004	1	1 unit	0.660
	6		B	5SY7 406-7		003	C	5SY7 406-8		004	1	1 unit	0.660
	8		C	5SY7 408-7		003	C	5SY7 408-8		004	1	1 unit	0.660
	10		▶	5SY7 410-7		003	B	5SY7 410-8		004	1	1 unit	0.660
	13		C	5SY7 413-7		003	C	5SY7 413-8		004	1	1 unit	0.660
	16		▶	5SY7 416-7		003	B	5SY7 416-8		004	1	1 unit	0.660
	20		A	5SY7 420-7		003	B	5SY7 420-8		004	1	1 unit	0.660
	25		▶	5SY7 425-7		003	B	5SY7 425-8		004	1	1 unit	0.660
	32		▶	5SY7 432-7		003	B	5SY7 432-8		004	1	1 unit	0.660
	40		A	5SY7 440-7		003	B	5SY7 440-8		004	1	1 unit	0.660
	50		A	5SY7 450-7		003	B	5SY7 450-8		004	1	1 unit	0.660
	63		▶	5SY7 463-7		003	B	5SY7 463-8		004	1	1 unit	0.660

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BETA Protecting Miniature Circuit Breakers

High-capacity range

	I_n	MW	DT	Characteristic C		PG	DT	Characteristic D		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
				Order No.	Price per PU			Order No.	Price per PU				
	Miniature circuit breakers 25 kA												
	1P, 230/400 V AC												
	0.3	1	C	5SY8 114-7		003	C	5SY8 114-8		004	1	1 unit	0.165
	0.5		C	5SY8 105-7		003	C	5SY8 105-8		004	1	1 unit	0.165
	1		B	5SY8 101-7		003	C	5SY8 101-8		004	1	1 unit	0.165
	1.6		C	5SY8 115-7		003	C	5SY8 115-8		004	1	1 unit	0.165
	2		A	5SY8 102-7		003	B	5SY8 102-8		004	1	1 unit	0.165
	3		C	5SY8 103-7		003	C	5SY8 103-8		004	1	1 unit	0.165
	4		B	5SY8 104-7		003	C	5SY8 104-8		004	1	1 unit	0.165
	6		A	5SY8 106-7		003	C	5SY8 106-8		004	1	1 unit	0.165
	8		C	5SY8 108-7		003	C	5SY8 108-8		004	1	1 unit	0.165
	10		A	5SY8 110-7		003	C	5SY8 110-8		004	1	1 unit	0.165
	13		C	5SY8 113-7		003	C	5SY8 113-8		004	1	1 unit	0.165
	16		A	5SY8 116-7		003	C	5SY8 116-8		004	1	1 unit	0.165
	20		A	5SY8 120-7		003	C	5SY8 120-8		004	1	1 unit	0.165
	25		C	5SY8 125-7		003	C	5SY8 125-8		004	1	1 unit	0.165
	32		B	5SY8 132-7		003	C	5SY8 132-8		004	1	1 unit	0.165
	40		C	5SY8 140-7		003	C	5SY8 140-8		004	1	1 unit	0.165
	50		C	5SY8 150-7		003	C	5SY8 150-8		004	1	1 unit	0.165
63		C	5SY8 163-7		003	C	5SY8 163-8		004	1	1 unit	0.165	
	1P+N, 230 V AC												
	0.3	2	C	5SY8 514-7		003	C	5SY8 514-8		004	1	1 unit	0.330
	0.5		C	5SY8 505-7		003	C	5SY8 505-8		004	1	1 unit	0.330
	1		C	5SY8 501-7		003	C	5SY8 501-8		004	1	1 unit	0.330
	1.6		C	5SY8 515-7		003	C	5SY8 515-8		004	1	1 unit	0.330
	2		C	5SY8 502-7		003	C	5SY8 502-8		004	1	1 unit	0.330
	3		C	5SY8 503-7		003	C	5SY8 503-8		004	1	1 unit	0.330
	4		C	5SY8 504-7		003	C	5SY8 504-8		004	1	1 unit	0.330
	6		B	5SY8 506-7		003	C	5SY8 506-8		004	1	1 unit	0.330
	8		C	5SY8 508-7		003	C	5SY8 508-8		004	1	1 unit	0.330
	10		B	5SY8 510-7		003	C	5SY8 510-8		004	1	1 unit	0.330
	13		C	5SY8 513-7		003	C	5SY8 513-8		004	1	1 unit	0.330
	16		B	5SY8 516-7		003	C	5SY8 516-8		004	1	1 unit	0.330
	20		C	5SY8 520-7		003	C	5SY8 520-8		004	1	1 unit	0.330
	25		C	5SY8 525-7		003	C	5SY8 525-8		004	1	1 unit	0.330
	32		B	5SY8 532-7		003	C	5SY8 532-8		004	1	1 unit	0.330
	40		C	5SY8 540-7		003	B	5SY8 540-8		004	1	1 unit	0.330
	50		B	5SY8 550-7		003	B	5SY8 550-8		004	1	1 unit	0.330
	63		B	5SY8 563-7		003	B	5SY8 563-8		004	1	1 unit	0.330
	2P, 400 V AC												
	0.3	2	C	5SY8 214-7		003	C	5SY8 214-8		004	1	1 unit	0.330
	0.5		C	5SY8 205-7		003	C	5SY8 205-8		004	1	1 unit	0.330
	1		B	5SY8 201-7		003	C	5SY8 201-8		004	1	1 unit	0.330
	1.6		C	5SY8 215-7		003	C	5SY8 215-8		004	1	1 unit	0.330
	2		B	5SY8 202-7		003	B	5SY8 202-8		004	1	1 unit	0.330
	3		C	5SY8 203-7		003	C	5SY8 203-8		004	1	1 unit	0.330
	4		A	5SY8 204-7		003	C	5SY8 204-8		004	1	1 unit	0.330
	6		A	5SY8 206-7		003	A	5SY8 206-8		004	1	1 unit	0.330
	8		C	5SY8 208-7		003	C	5SY8 208-8		004	1	1 unit	0.330
	10		A	5SY8 210-7		003	B	5SY8 210-8		004	1	1 unit	0.330
	13		C	5SY8 213-7		003	C	5SY8 213-8		004	1	1 unit	0.330
	16		A	5SY8 216-7		003	C	5SY8 216-8		004	1	1 unit	0.330
	20		B	5SY8 220-7		003	C	5SY8 220-8		004	1	1 unit	0.330
	25		B	5SY8 225-7		003	B	5SY8 225-8		004	1	1 unit	0.330
	32		B	5SY8 232-7		003	C	5SY8 232-8		004	1	1 unit	0.330
	40		C	5SY8 240-7		003	C	5SY8 240-8		004	1	1 unit	0.330
	50		C	5SY8 250-7		003	C	5SY8 250-8		004	1	1 unit	0.330
	63		C	5SY8 263-7		003	C	5SY8 263-8		004	1	1 unit	0.330

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

High-capacity range

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	I_n	MW	DT	Characteristic C		PG	MW	Characteristic D		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
				Order No.	Price per PU			Order No.	Price per PU				
	3P, 400 V AC												
	0.3	3	C	5SY8 314-7		003	C	5SY8 314-8		004	1	1	0.495
	0.5		C	5SY8 305-7		003	C	5SY8 305-8		004	1	1	0.495
	1		A	5SY8 301-7		003	C	5SY8 301-8		004	1	1	0.495
	1.6		C	5SY8 315-7		003	C	5SY8 315-8		004	1	1	0.495
	2		C	5SY8 302-7		003	C	5SY8 302-8		004	1	1	0.495
	3		C	5SY8 303-7		003	C	5SY8 303-8		004	1	1	0.495
	4		C	5SY8 304-7		003	C	5SY8 304-8		004	1	1	0.495
	6		B	5SY8 306-7		003	C	5SY8 306-8		004	1	1	0.495
	8		C	5SY8 308-7		003	C	5SY8 308-8		004	1	1	0.495
	10		B	5SY8 310-7		003	C	5SY8 310-8		004	1	1	0.495
	13		C	5SY8 313-7		003	C	5SY8 313-8		004	1	1	0.495
	16		A	5SY8 316-7		003	C	5SY8 316-8		004	1	1	0.495
	20		C	5SY8 320-7		003	C	5SY8 320-8		004	1	1	0.495
	25		A	5SY8 325-7		003	B	5SY8 325-8		004	1	1	0.495
	32		A	5SY8 332-7		003	B	5SY8 332-8		004	1	1	0.495
	40		B	5SY8 340-7		003	C	5SY8 340-8		004	1	1	0.495
	50		B	5SY8 350-7		003	B	5SY8 350-8		004	1	1	0.495
	63		B	5SY8 363-7		003	C	5SY8 363-8		004	1	1	0.495
	3P+N, 400 V AC												
	0.3	4	C	5SY8 614-7		003	C	5SY8 614-8		004	1	1	0.660
	0.5		C	5SY8 605-7		003	C	5SY8 605-8		004	1	1	0.660
	1		C	5SY8 601-7		003	C	5SY8 601-8		004	1	1	0.660
	1.6		C	5SY8 615-7		003	C	5SY8 615-8		004	1	1	0.660
	2		C	5SY8 602-7		003	C	5SY8 602-8		004	1	1	0.660
	3		C	5SY8 603-7		003	C	5SY8 603-8		004	1	1	0.660
	4		C	5SY8 604-7		003	C	5SY8 604-8		004	1	1	0.660
	6		C	5SY8 606-7		003	C	5SY8 606-8		004	1	1	0.660
	8		C	5SY8 608-7		003	C	5SY8 608-8		004	1	1	0.660
	10		C	5SY8 610-7		003	C	5SY8 610-8		004	1	1	0.660
	13		C	5SY8 613-7		003	C	5SY8 613-8		004	1	1	0.660
	16		B	5SY8 616-7		003	C	5SY8 616-8		004	1	1	0.660
	20		C	5SY8 620-7		003	C	5SY8 620-8		004	1	1	0.660
	25		C	5SY8 625-7		003	C	5SY8 625-8		004	1	1	0.660
	32		B	5SY8 632-7		003	C	5SY8 632-8		004	1	1	0.660
	40		C	5SY8 640-7		003	C	5SY8 640-8		004	1	1	0.660
	50		C	5SY8 650-7		003	C	5SY8 650-8		004	1	1	0.660
	63		A	5SY8 663-7		003	C	5SY8 663-8		004	1	1	0.660
	4P, 400 V AC												
	0.3	4	C	5SY8 414-7		003	C	5SY8 414-8		004	1	1	0.660
	0.5		C	5SY8 405-7		003	C	5SY8 405-8		004	1	1	0.660
	1		C	5SY8 401-7		003	C	5SY8 401-8		004	1	1	0.660
	1.6		C	5SY8 415-7		003	C	5SY8 415-8		004	1	1	0.660
	2		C	5SY8 402-7		003	C	5SY8 402-8		004	1	1	0.660
	3		C	5SY8 403-7		003	C	5SY8 403-8		004	1	1	0.660
	4		C	5SY8 404-7		003	C	5SY8 404-8		004	1	1	0.660
	6		C	5SY8 406-7		003	C	5SY8 406-8		004	1	1	0.660
	8		C	5SY8 408-7		003	C	5SY8 408-8		004	1	1	0.660
	10		B	5SY8 410-7		003	C	5SY8 410-8		004	1	1	0.660
	13		C	5SY8 413-7		003	C	5SY8 413-8		004	1	1	0.660
	16		A	5SY8 416-7		003	C	5SY8 416-8		004	1	1	0.660
	20		A	5SY8 420-7		003	C	5SY8 420-8		004	1	1	0.660
	25		A	5SY8 425-7		003	C	5SY8 425-8		004	1	1	0.660
	32		A	5SY8 432-7		003	C	5SY8 432-8		004	1	1	0.660
	40		A	5SY8 440-7		003	C	5SY8 440-8		004	1	1	0.660
	50		A	5SY8 450-7		003	C	5SY8 450-8		004	1	1	0.660
	63		A	5SY8 463-7		003	C	5SY8 463-8		004	1	1	0.660

BETA Protecting Miniature Circuit Breakers

Comfort range with plug-in terminal

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Selection and ordering data

6 000 3		I_n	MW	DT	Characteristic B			Characteristic C			PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
					Order No.	Price per PU	PG	DT	Order No.	Price per PU				PG
		Miniature circuit breakers with plug-in terminal												
		1P												
		10	1	B	5SJ6 110-6KS		002	B	5SJ6 110-7KS		003	1	1 unit	0.111
		13		B	5SJ6 113-6KS		002	B	5SJ6 113-7KS		003	1	1 unit	0.111
		16		A	5SJ6 116-6KS		002	B	5SJ6 116-7KS		003	1	1 unit	0.111
		20		B	5SJ6 120-6KS		002	B	5SJ6 120-7KS		003	1	1 unit	0.111
		1P + N												
		10	2	B	5SJ6 510-6KS		002	B	5SJ6 510-7KS		003	1	1 unit	0.185
		13		B	5SJ6 513-6KS		002	B	5SJ6 513-7KS		003	1	1 unit	0.185
		16		B	5SJ6 516-6KS		002	B	5SJ6 516-7KS		003	1	1 unit	0.185
		20		B	5SJ6 520-6KS		002	B	5SJ6 520-7KS		003	1	1 unit	0.185
		2P												
		10	2	B	5SJ6 210-6KS		002	B	5SJ6 210-7KS		003	1	1 unit	0.225
		13		B	5SJ6 213-6KS		002	B	5SJ6 213-7KS		003	1	1 unit	0.225
		16		B	5SJ6 216-6KS		002	B	5SJ6 216-7KS		003	1	1 unit	0.225
		20		B	5SJ6 220-6KS		002	B	5SJ6 220-7KS		003	1	1 unit	0.225
		3P												
		10	3	B	5SJ6 310-6KS		002	B	5SJ6 310-7KS		003	1	1 unit	0.345
		13		B	5SJ6 313-6KS		002	B	5SJ6 313-7KS		003	1	1 unit	0.345
		16		B	5SJ6 316-6KS		002	B	5SJ6 316-7KS		003	1	1 unit	0.345
		20		B	5SJ6 320-6KS		002	B	5SJ6 320-7KS		003	1	1 unit	0.345

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

Compact range 1 + N in 1 MW

Overview

These miniature circuit breakers are used for the protection of plants with switched neutral conductors in distribution boards with little space. They are only a single modular width.

Compact busbars facilitate installation in space saving distribution boards.

The devices are approved for worldwide use according to IEC standards for systems up to 250 V AC, 60 V DC per pole is permitted in DC systems according to IEC standards.

Benefits

- Auxiliary switches and fault signal contacts from the high-capacity range can be freely mounted on these devices. This increases availability and cuts down on logistics
- The devices have the same design as the high-capacity program and ensure a uniform appearance in the distribution board
- The miniature circuit breakers can be quickly and easily removed from the assembly by hand if connections need to be changed
- Time saving if parts need to be replaced because the busbars no longer need to be freed from the adjacent miniature circuit breakers.

Selection and ordering data

6 000 3		I _n A	MW	DT	Characteristic B		PG	DT	Characteristic C		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg					
Order No.					Price per PU					Order No.					Price per PU				
	Compact miniature circuit breakers																		
	1P+N, 230 V AC																		
	6	1	A	5SY6 006-6	002	A	5SY6 006-7	003	1	1 unit	0.1								
	8			—		A	5SY6 008-7	003	1	1 unit	0.1								
	10		A	5SY6 010-6	002	A	5SY6 010-7	003	1	1 unit	0.1								
	13		A	5SY6 013-6	002	A	5SY6 013-7	003	1	1 unit	0.1								
	16		A	5SY6 016-6	002	A	5SY6 016-7	003	1	1 unit	0.1								
	20		A	5SY6 020-6	002	A	5SY6 020-7	003	1	1 unit	0.1								
	25		A	5SY6 025-6	002	A	5SY6 025-7	003	1	1 unit	0.1								
	32		A	5SY6 032-6	002	A	5SY6 032-7	003	1	1 unit	0.1								

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

Additional components

Overview

Using this mounting concept, all additional 5ST3 components can be combined with miniature circuit breakers of the 5SY and 5SP4 series.

The auxiliary switch (AS) signals the contact position. In the event of a fault, the fault signal contact (FC) signals the automatic tripping of the miniature circuit breaker and the contact position.

Undervoltage releases are integrated in an EMERGENCY-STOP loop, thus ensuring that the miniature circuit breaker trips in the event of an emergency, which in turn ensures disconnection of the control circuit according to EN 60204. In the event that the voltage is interrupted or too low, it also trips, i.e. prevents the miniature circuit breaker from switching on.

Shunt trips are used for the remote tripping of miniature circuit breakers.

Remote-controlled operating mechanisms are used for the remote ON/OFF switching of miniature circuit breakers and the remote ON switching of RC units. Remote-controlled operating mechanisms also enable local manual switching. A blocking function permits maintenance work. In the event that a miniature circuit breaker or RC unit is tripped, an acknowledgment must be carried out prior to switching back on.

For further information on RC units, please refer to the section "Residual current protective devices".

Benefits

- Bus systems, such as *instabus* KNX EIB, AS-Interface bus or PROFIBUS, are integrated in the communication over binary inputs and actuators.
- Captive metal brackets on the additional components ensure fast mounting on the devices.

Auxiliary switches (AS)

- Huge range of applications, thanks to additional versions for the switching of small currents and voltages for the control of programmable control systems (PLCs) acc. to EN 61131-2.

Remote-controlled operating mechanisms (RC)

- The remote-controlled operating mechanism has an operating mode selector switch with the functions: "Locked", "Manual" and "Remote switching". The mechanism can be mechanically latched and locked, which serves to protect personnel during maintenance work.

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BETA Protecting Miniature Circuit Breakers

Additional components

Selection and ordering data

	Rated voltage	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	U_n V								kg
	Auxiliary switches (AS) For 5SP4 and 5SY miniature circuit breakers								
	1 NO + 1 NC for small output	0.5	▶	5ST3 010		027	1	1 unit	0.050
			▶	5ST3 013		027	1	1 unit	0.050
	2 NO for small output		A	5ST3 011		027	1	1 unit	0.050
			B	5ST3 014		027	1	1 unit	0.050
	2 NC for small output		A	5ST3 012		027	1	1 unit	0.050
			B	5ST3 015		027	1	1 unit	0.050
	Fault signal contacts (FC) For 5SP4 and 5SY miniature circuit breakers								
	1 NO + 1 NC	0.5	▶	5ST3 020		027	1	1 unit	0.050
	2 NO		B	5ST3 021		027	1	1 unit	0.050
	2 NC		A	5ST3 022		027	1	1 unit	0.050
	Undervoltage releases (UR) For 5SP4 and 5SY miniature circuit breakers but not for 5SY6 0..								
	230 AC	1	A	5ST3 040		027	1	1 unit	0.115
	110 DC		B	5ST3 041		027	1	1 unit	0.115
	24 DC		B	5ST3 042		027	1	1 unit	0.115
	230 AC	1	A	5ST3 043		027	1	1 unit	0.115
	110 DC		B	5ST3 044		027	1	1 unit	0.115
	24 DC		A	5ST3 045		027	1	1 unit	0.115
	Shunt trips (ST) For 5SP4 and 5SY miniature circuit breakers but not for 5SY6 0..								
	110 ... 415 AC	1	▶	5ST3 030		027	1	1 unit	0.098
	24 ... 48 AC/DC	1	▶	5ST3 031		027	1	1 unit	0.098
	Remote-controlled operating mechanisms (RC) For 5SP4 and 5SY miniature circuit breakers								
	230 AC	3.5	A	5ST3 050		027	1	1 unit	0.395

BETA Protecting Miniature Circuit Breakers

Additional components

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Rated current I_n A	Rated residual current $I_{\Delta n}$ mA	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
RC units, type A, instantaneous tripping									
For 5SY miniature circuit breakers but not for 5SY5 and 5SY6 0..									
2P, 230 ... 400 V AC, 50 ... 60 Hz									
0.3 ... 16	10	2	B	5SM2 121-6		007	1	1 unit	0.180
0.3 ... 40	30		▶	5SM2 322-6		007	1	1 unit	0.170
	300		A	5SM2 622-6		007	1	1 unit	0.170
0.3 ... 63	30		A	5SM2 325-6		007	1	1 unit	0.170
	100		B	5SM2 425-6		007	1	1 unit	0.170
	300		B	5SM2 625-6		007	1	1 unit	0.170
	500		B	5SM2 725-6		007	1	1 unit	0.170
3P, 230 ... 400 V AC, 50 ... 60 Hz									
0.3 ... 40	30	3	A	5SM2 332-6		007	1	1 unit	0.260
	300		A	5SM2 632-6		007	1	1 unit	0.260
0.3 ... 63	30		B	5SM2 335-6		007	1	1 unit	0.260
	100		B	5SM2 435-6		007	1	1 unit	0.260
	300		B	5SM2 635-6		007	1	1 unit	0.260
	500		B	5SM2 735-6		007	1	1 unit	0.260
4P, 230 ... 400 V AC, 50 ... 60 Hz									
0.3 ... 40	30	3	▶	5SM2 342-6		007	1	1 unit	0.290
	300		▶	5SM2 642-6		007	1	1 unit	0.290
0.3 ... 63	30		A	5SM2 345-6		007	1	1 unit	0.290
	100		B	5SM2 445-6		007	1	1 unit	0.290
	300		A	5SM2 645-6		007	1	1 unit	0.290
	500		A	5SM2 745-6		007	1	1 unit	0.290
For 5SP4 miniature circuit breakers									
2P, 125 ... 230 V AC, 50 ... 60 Hz									
80 ... 100	30	3.5	B	5SM2 327-6		007	1	1 unit	0.410
	300		B	5SM2 627-6		007	1	1 unit	0.410
4P, 230 ... 400 V AC, 50 ... 60 Hz									
80 ... 100	30	5	B	5SM2 347-6		007	1	1 unit	0.630
	300		A	5SM2 647-6		007	1	1 unit	0.630

* You can order this quantity or a multiple thereof.

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BETA Protecting Miniature Circuit Breakers

Additional components

	Rated current	Rated residual current	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	I_n A	$I_{\Delta n}$ mA								kg
	RC units, type A, super resistant K									
	For 5SY miniature circuit breakers but not for 5SY5 and 5SY6 0..									
	2P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 40	30	2	B	5SM2 322-6KK01		007	1	1 unit	0.350
	0.3 ... 63	30		B	5SM2 325-6KK01		007	1	1 unit	0.350
	RC units, type A, selective S									
	For 5SY miniature circuit breakers but not for 5SY5 and 5SY6 0..									
	2P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 40	300	2	A	5SM2 622-8		007	1	1 unit	0.170
	0.3 ... 63	300		B	5SM2 625-8		007	1	1 unit	0.170
	3P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 63	300	3	B	5SM2 635-8		007	1	1 unit	0.260
		500		B	5SM2 735-8		007	1	1 unit	0.400
		1000		B	5SM2 835-8		007	1	1 unit	0.260
	4P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 63	300	3	A	5SM2 645-8		007	1	1 unit	0.290
		500		A	5SM2 745-8		007	1	1 unit	0.400
		1000		A	5SM2 845-8		007	1	1 unit	0.290
	For 5SP4 miniature circuit breakers									
	2P, 125 ... 230 V AC, 50 ... 60 Hz									
	80 ... 100	300	3.5	B	5SM2 627-8		007	1	1 unit	0.410
	4P; 230 ... 400 V AC, 50 ... 60 Hz									
	80 ... 100	300	5	A	5SM2 647-8		007	1	1 unit	0.630
		1000		A	5SM2 847-8		007	1	1 unit	0.630

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

Additional components

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	Version	MW DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
								kg
	Terminal covers For 5SP4 and 5SY miniature circuit breakers For additional covering of the screw openings per pole, sealable. On 5SY prevents the device also being removed from the standard mounting rail.	B	5ST3 800		027	1	10 units	0.001
	Handle locking devices For 5SP4 and 5SY miniature circuit breakers can be sealed against unwanted manual ON/OFF switching, padlock with max. 3 mm shackle	A	5ST3 801		027	1	1 unit	0.008
	Padlocks For 5ST3 801 handle locking device	▶	5ST3 802		027	1	1 unit	0.027
	Locking devices Consisting of 5ST3 801 handle locking device and 5ST3 802 padlock	B	5ST3 803		027	1	1 set	0.035
	Spacers Can be placed on either side of the standard mounting rail, so that two spacers allow for convenient cable routing	0.5 ▶	5TG8 240		027	1	2 units	0.010
	Fixing parts Made of plastic, for use with a mounting plate	B	5ST2 201		027	1	1 unit	0.012
	Inscription labels 15 mm x 9 mm, 3 frames à 44 labels, can be mounted on casing collar, white, self-adhesive	B	5ST2 173		027	1	1 set	0.038

Labeling systems

The labeling program can be downloaded to your PC free of charge:

<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 61 03/75 98-660

* You can order this quantity or a multiple thereof.

BETA Protecting Miniature Circuit Breakers

Additional components

Version	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
							kg
 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	B	5SW3 004		008	1	1 unit	0.084
	B	5SW3 005		008	1	1 unit	0.114
 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	B	5SW3 006		008	1	1 unit	0.126
	B	5SW3 007		008	1	1 unit	0.147
 Molded-plastic enclosures, gray For surface mounting, degree of protection IP54, with 35 mm standard mounting rail, sealable With transparent hinged lid For 4.5 MW	A	5SW1 200		008	1	1 unit	0.450
 Covers Can be assembled as mini distribution board, suitable for all devices, cover parts prepared for rail mounting of conventional label caps, comprising: • End plates (can be snapped onto standard mounting rail) • Angled profile (approx. 1 m long) • Flat profile (as a cover between the rows of devices length approx. 1 m)	A	5ST2 134		027	1	10 units	0.022
	A	5ST2 135		027	1	5 units	0.330
	B	5ST2 136		027	1	5 units	0.260

BETA Protecting Miniature Circuit Breakers

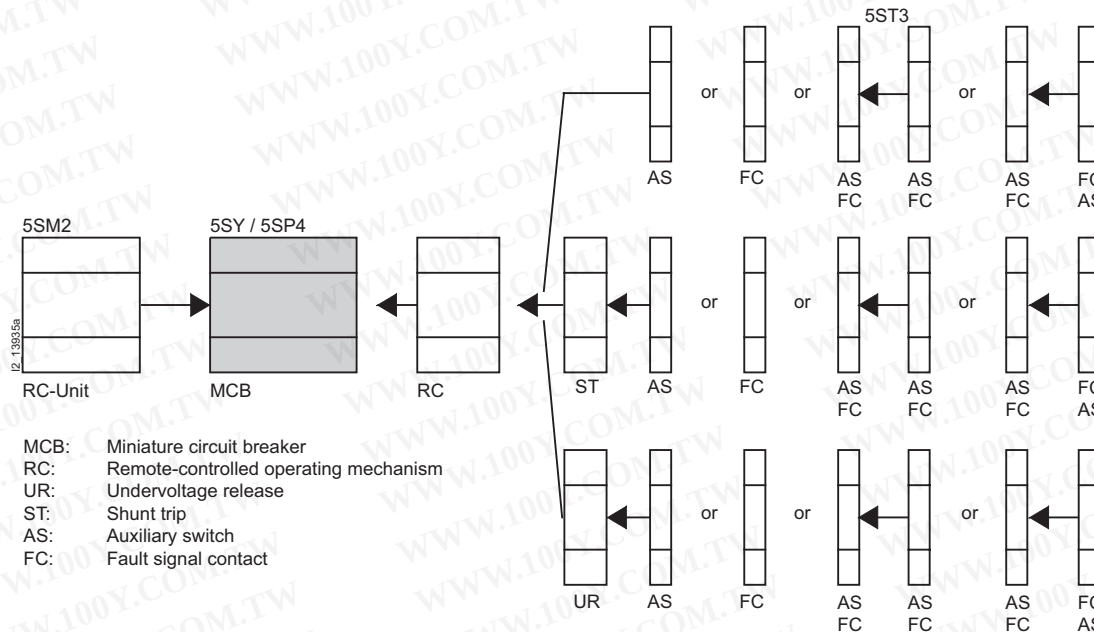
Additional components

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More information

Using this mounting concept, all additional 5ST3 components can be combined with miniature circuit breakers of the 5SY and 5SP4 series. However, no RC unit on 5SY5. The 5SY6 0.. miniature circuit breakers are only designed for the mounting of auxiliary

switches, fault signal contacts and remote-controlled operating mechanisms. The graphic shows which additional components can be mounted on either the right or the left.



BETA Protecting Miniature Circuit Breakers

Busbars

Overview

The busbar system with pin-type terminals can be used for all 5SJ6 and 5SY miniature circuit breakers with or without mounted auxiliary switch (AS) or fault signal contact (FC).

Busbars in 10 mm² and 16 mm² versions are available.

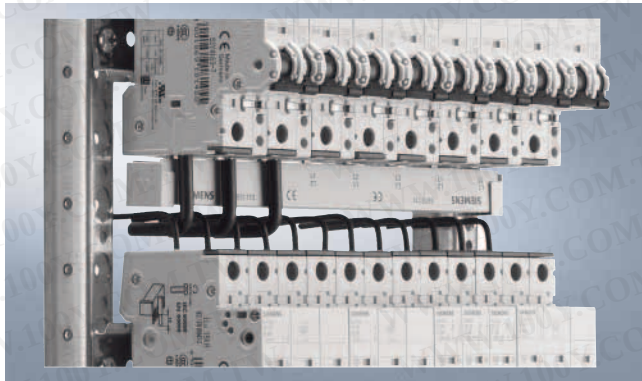
The extremely flexible 5ST3 6 busbar system with fixed lengths enables installation in any length as the busbars can be overlapped.

No further need for time-consuming tasks, such as cutting, cutting to length, deburring, cleaning of cut surfaces and mounting of end caps.

Any free pins on the busbars can be made finger-safe by covering with touch protection.

For further information on bus-mounting miniature circuit breakers with residual current operated circuit breakers, please refer to the section "Residual current protective devices".

Benefits



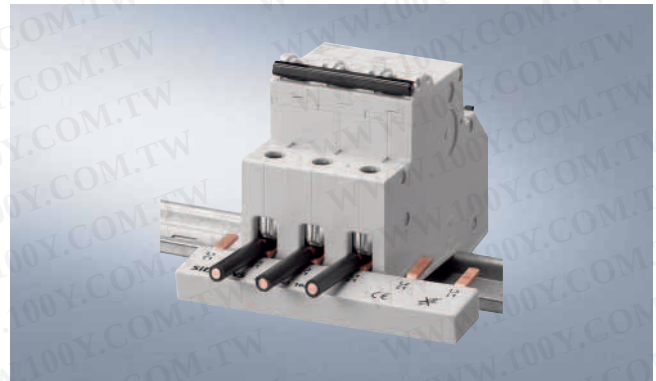
- Between the devices, the busbar, located at the bottom and behind the conductor, provides an optimum wiring space with easy view of the inserted conductor. This enables easy control of connections.



- The ability to overlap the busbar mounting enables a cross-section enlargement of up to 32 mm² using the respective components, 10 and 16 mm².



- The fact that the connection of the conductor is always clearly visible facilitates control and insertion of conductors of all pole types and considerably reduces mounting times.



- The fact that the connection of the conductor is always clearly visible facilitates control and insertion of conductors of all pole types and considerably reduces mounting times.

BETA Protecting Miniature Circuit Breakers

Busbars

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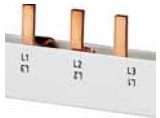
Selection and ordering data

	Pin spacing	Length mm	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
5ST3 6 busbar systems, 10 mm²									
For miniature circuit breakers									
Fixed lengths, cannot be cut, fully insulated									
1-phase									
For 2 MCB 1P	1	33	A	5ST3 600		027	1	10 units	0.005
For 6 MCB 1P		105	A	5ST3 601		027	1	10 units	0.018
For 12 MCB 1PP		210	A	5ST3 602		027	1	10 units	0.036
1-phase For MCB with AS or FC									
For 2 MCB 1P	1.5	40	A	5ST3 603		027	1	10 units	0.008
For 6 MCB 1P		156.5	A	5ST3 604		027	1	10 units	0.024
For 9 MCB 1P		237	A	5ST3 605		027	1	10 units	0.036
2-phase									
For 2 MCB 2P	1	75.5	A	5ST3 606		027	1	10 units	0.016
For 3 MCB 2P		105	A	5ST3 607		027	1	10 units	0.024
For 6 MCB 2P		210	A	5ST3 608		027	1	10 units	0.048
3-phase									
For 2 MCB 3P	1	102	A	5ST3 613		027	1	10 units	0.039
For 3 MCB 3P		157.5	A	5ST3 614		027	1	10 units	0.060
For 4 MCB 3P		210	▶	5ST3 615		027	1	10 units	0.076
3-phase For MCB with AS or FC									
For 2 MCB 3P	1+1+1.5	115	A	5ST3 616		027	1	10 units	0.040
For 4 MCB 3P		237	A	5ST3 617		027	1	10 units	0.080
For 6 MCB 1P	1.5	125	A	5ST3 618		027	1	10 units	0.044
For 9 MCB 1P		229	A	5ST3 620		027	1	10 units	0.066
4-phase									
For 2 MCB 4P or 3P+N	1		A	5ST3 621		027	1	10 units	0.051
For 3 MCB 4P or 3P+N			A	5ST3 622		027	1	10 units	0.078
For 6 MCB 2P or 1P+PN			A	5ST3 623		027	1	10 units	0.078
3-phase For 1 RCCB 4P PN right and 8 MCB 1P									
	1	210	A	5ST3 624		027	1	10 units	0.075
5ST3 6 busbars, 16 mm²									
For miniature circuit breakers									
Fixed lengths, cannot be cut, fully insulated									
1-phase									
For 2 MCB 1P	1	33	A	5ST3 630		027	1	10 units	0.008
For 6 MCB 1P		105	A	5ST3 631		027	1	10 units	0.025
For 12 MCB 1P		210	A	5ST3 632		027	1	10 units	0.048
1-phase For MCB with AS or FC									
For 2 MCB 1P	1.5	40	A	5ST3 633		027	1	10 units	0.013
For 6 MCB 1P		156.5	A	5ST3 634		027	1	10 units	0.039
For 9 MCB 1P		237	A	5ST3 635		027	1	10 units	0.059
2-phase									
For 2 MCB 2P	1	75.5	A	5ST3 636		027	1	10 units	0.024
For 3 MCB 2P		105	A	5ST3 637		027	1	10 units	0.039
For 6 MCB 2P		209.5	A	5ST3 638		027	1	10 units	0.076
2-phase For MCB with AS or FC									
For 2 MCB 2P	1 + 1.5	75.5	A	5ST3 640		027	1	10 units	0.026
For 3 MCB 2P		120.5	A	5ST3 641		027	1	10 units	0.045
For 5 MCB 2P		209.5	A	5ST3 642		027	1	10 units	0.084
3-phase									
For 2 MCB 3P	1	102.5	A	5ST3 643		027	1	10 units	0.058
For 3 MCB 3P		157.5	A	5ST3 644		027	1	10 units	0.083
For 4 MCB 3P		209.5	▶	5ST3 645		027	1	10 units	0.110
3-phase For MCB with AS or FC									
For 2 MCB 3P	1+1+1.5	115	A	5ST3 646		027	1	10 units	0.060
For 4 MCB 3P		237	A	5ST3 647		027	1	10 units	0.120
For 6 MCB 1P	1.5	156	A	5ST3 648		027	1	10 units	0.061
For 9 MCB 1P		245	A	5ST3 650		027	1	10 units	0.093

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BETA Protecting Miniature Circuit Breakers

Busbars

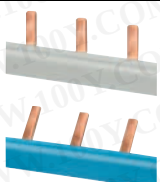
	Pin spacing	Length	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	MW	mm							
	4-phase								
	For 2 MCB 4P or 3P+N		A	5ST3 651		027	1	10 units	0.080
	For 3 MCB 4P or 3P+N		A	5ST3 652		027	1	10 units	0.116
	For 6 MCB 2P or 1P+N		A	5ST3 653		027	1	10 units	0.116
	3-phase								
	For 1 RCCB 4P N right and 8 MCB 1P	1	210	A	5ST3 654	027	1	10 units	0.114
Touch protection for free terminals									
	Yellow, RAL 1004		A	5ST3 655		027	1	10 units	0.003
Assortments									
	10 mm ²								
	20 x 5ST3 613 + 10 x 5ST3 614 + 50 x 5ST3 615 + 50 x 5ST3 655		A	5ST3 656		027	1	1 set	5.490
	16 mm ²								
	20 x 5ST3 643 + 10 x 5ST3 644 + 50 x 5ST3 645 + 50 x 5ST3 655		A	5ST3 657		027	1	1 set	7.640
5ST3 7 busbar systems, 10 mm² 12 MW									
For miniature circuit breakers									
Can be cut, with end caps									
	1-phase, angled								
	For 12 MCB 1P	1	214	A	5ST3 730	027	1	1 unit	0.040
	For 9 MCB 1P with AS or FC	1.5		A	5ST3 732	027	1	1 unit	0.040
	2-phase								
	For 6 MCB 2P	1		A	5ST3 734	027	1	1 unit	0.060
	For 4 MCB 2P with AS or FC	1+1.5		A	5ST3 736	027	1	1 unit	0.060
	3-phase								
	For 4 MCB 3P	1		▶	5ST3 738	027	1	1 unit	0.100
	For 3 MCB 3P with AS or FC	1+1+1.5		A	5ST3 741	027	1	1 unit	0.100
	For 3 MCB 1P with AS or FC	1.5		A	5ST3 743	027	1	1 unit	0.100
	4-phase								
	For 3 MCB 4P or 3P+N	1		A	5ST3 745	027	1	1 unit	0.150
5ST3 7 busbar systems, 10 mm² 56 MW									
Can be cut, without end caps									
	1-phase, angled								
	For MCB 1P	1	1016	A	5ST3 731	027	1	1 unit	0.190
	For MCB 1P with AS or FC	1.5		A	5ST3 733	027	1	1 unit	0.190
	2-phase								
	For MCB 2P	1		A	5ST3 735	027	1	1 unit	0.290
	For MCB 2P with AS or FC	1.5		A	5ST3 737	027	1	1 unit	0.290
	3-phase								
	For MCB 3P	1		A	5ST3 740	027	1	1 unit	0.430
	For MCB 3P with AS or FC	1+1+1.5		A	5ST3 742	027	1	1 unit	0.430
	For MCB 1P with AS or FC	1.5		A	5ST3 744	027	1	1 unit	0.430
	4-phase								
	For MCB 4P or 3P+N	1		A	5ST3 746	027	1	1 unit	0.700
5ST3 7 busbar systems, 16 mm² 12 MW									
For miniature circuit breakers									
Can be cut, with end caps									
	1-phase, angled								
	For MCB 1P	1	214	▶	5ST3 700	027	1	1 unit	0.040
	For MCB 1P with AS or FC	1.5		A	5ST3 702	027	1	1 unit	0.040
	2-phase								
	For MCB 2P	1		A	5ST3 704	027	1	1 unit	0.060
	For MCB 2P with AS or FC	1.5		A	5ST3 706	027	1	1 unit	0.060
	3-phase								
	For MCB 3P	1		▶	5ST3 708	027	1	1 unit	0.100
	For MCB 3P with AS or FC	1+1+1.5		A	5ST3 711	027	1	1 unit	0.100
	For MCB 1P with AS or FC	1.5		A	5ST3 713	027	1	1 unit	0.100
	4-phase								
	For MCB 4P or 3P+N	1		A	5ST3 715	027	1	1 unit	0.150

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Busbars

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	Pin spacing	Length	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	MW	mm							
	5ST3 7 busbar systems, 16 mm² 56 MW For miniature circuit breakers Can be cut, without end caps								
	1-phase, angled								
	For MCB 1P	1	1016	A	5ST3 701	027	1	1 unit	0.190
	For MCB 1P with AS or FC	1.5		A	5ST3 703	027	1	1 unit	0.190
	2-phase								
	For MCB 2P	1		A	5ST3 705	027	1	1 unit	0.290
	For MCB 2P with AS or FC	1.5		A	5ST3 707	027	1	1 unit	0.290
	3-phase								
	For MCB 3P	1		▶	5ST3 710	027	1	1 unit	0.430
	For MCB 3P with AS or FC	1+1+1.5		A	5ST3 712	027	1	1 unit	0.430
	For MCB 1P with AS or FC	1.5		A	5ST3 714	027	1	1 unit	0.430
	4-phase For MCB 4P or 3P+N								
	1		A	5ST3 716		027	1	1 unit	0.700
	End caps for 5ST3 7, can be cut								
	For 1-phase busbars		▶	5ST3 748		027	1	10 units	0.001
	5ST3 7 busbar systems, 10 mm² 12 MW For MCB 1 + N in 1 MW of the compact range Can be cut, with end caps								
	1-phase								
	For 12 MCB 1 + N, gray	1	216	A	5ST3 762	027	1	10 units	0.029
	For 12 MCB 1 + N, blue			A	5ST3 763	027	1	10 units	0.029
	5ST3 7 busbar systems, 10 mm² 56 MW For MCB 1 + N in 1 MW of the compact range Can be cut, without end caps								
	1-phase								
	For MCB 1 + N, gray	1	1016	A	5ST3 764	027	1	10 units	0.134
	For MCB 1 + N, blue			A	5ST3 765	027	1	10 units	0.134
	End caps for 5ST3 76								
	1 set comprises a right and a left cap								
	Gray			A	5ST3 766	027	1	10 sets	0.001
	Blue			A	5ST3 767	027	1	10 sets	0.001
	Terminals for 5ST3 76								
	Terminal version S For conductors up to 25 mm ²								
			A	5ST3 768		027	1	25 units	0.011

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BETA Protecting Miniature Circuit Breakers

Universal range according to UL and IEC

Overview

Miniature circuit breakers to EN/IEC 60898 of European design are not approved for general use in the USA. For general use, these devices are certified to UL 489, which permits use as an all-round solution for protection tasks in distribution boards, control cabinets and control systems to UL 508 A as "branch protectors" within the sphere of influence of the ANSI (American National Standards Institute).

The terminals are suitable for "field wiring". This means that devices can be installed not only in a workshop, but also on-site at the customer.

The 5SY4 ...-HG40 version is approved for "same polarity" and 5SJ4 ...-HG41 is also approved for "opposite polarity".

The devices are designed according to UL 489 for a rated voltage of 240 V AC and 60 V DC. This covers all applications in control engineering and the residential market.

Benefits

- Available for all applications in residential, non-residential and industrial buildings. This facilitates the planning of plants and enhances export opportunities.
- The devices can also be used in compliance with IEC/EN 60898 in systems up to 250/440 V AC. Which means these devices can be installed anywhere in the world.

Selection and ordering data

I_n	MW	DT	Characteristic B Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A								
Miniature circuit breakers								
"same polarity" 1P, 240 V AC								
6	1	B	5SJ4 106-6HG40		002	1	1 unit	0.120
10		B	5SJ4 110-6HG40		002	1	1 unit	0.120
13		C	5SJ4 113-6HG40		002	1	1 unit	0.120
15		C	5SJ4 118-6HG40		002	1	1 unit	0.120
16		C	5SJ4 116-6HG40		002	1	1 unit	0.120
20		C	5SJ4 120-6HG40		002	1	1 unit	0.120
25		C	5SJ4 125-6HG40		002	1	1 unit	0.120
30		C	5SJ4 130-6HG40		002	1	1 unit	0.120
32		C	5SJ4 132-6HG40		002	1	1 unit	0.120
35		C	5SJ4 135-6HG40		002	1	1 unit	0.120
40		C	5SJ4 140-6HG40		002	1	1 unit	0.120
45		C	5SJ4 145-6HG40		002	1	1 unit	0.120
50		C	5SJ4 150-6HG40		002	1	1 unit	0.120
60		C	5SJ4 160-6HG40		002	1	1 unit	0.120
63		C	5SJ4 163-6HG40		002	1	1 unit	0.120



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	I_n	MW	DT	Characteristic C		PG	DT	Characteristic D		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
				Order No.	Price per PU			Order No.	Price per PU				
	A												
	Miniature circuit breakers												
		"same polarity" 1P, 240 V AC											
	0.3	1	C	5SJ4 114-7HG40		003	C	5SJ4 114-8HG40		004	1	1 unit	0.120
	0.5		C	5SJ4 105-7HG40		003	C	5SJ4 105-8HG40		004	1	1 unit	0.120
	1		B	5SJ4 101-7HG40		003	C	5SJ4 101-8HG40		004	1	1 unit	0.120
	1.6		C	5SJ4 115-7HG40		003	C	5SJ4 115-8HG40		004	1	1 unit	0.120
	2		B	5SJ4 102-7HG40		003	C	5SJ4 102-8HG40		004	1	1 unit	0.120
	3		B	5SJ4 103-7HG40		003	C	5SJ4 103-8HG40		004	1	1 unit	0.120
	4		B	5SJ4 104-7HG40		003	C	5SJ4 104-8HG40		004	1	1 unit	0.120
	5		C	5SJ4 111-7HG40		003	C	5SJ4 111-8HG40		004	1	1 unit	0.120
	6		B	5SJ4 106-7HG40		003	C	5SJ4 106-8HG40		004	1	1 unit	0.120
	8		B	5SJ4 108-7HG40		003	C	5SJ4 108-8HG40		004	1	1 unit	0.120
	10		B	5SJ4 110-7HG40		003	C	5SJ4 110-8HG40		004	1	1 unit	0.120
	13		C	5SJ4 113-7HG40		003	C	5SJ4 113-8HG40		004	1	1 unit	0.120
	15		C	5SJ4 118-7HG40		003	C	5SJ4 118-8HG40		004	1	1 unit	0.120
	16		B	5SJ4 116-7HG40		003	C	5SJ4 116-8HG40		004	1	1 unit	0.120
	20		B	5SJ4 120-7HG40		003	C	5SJ4 120-8HG40		004	1	1 unit	0.120
	25		B	5SJ4 125-7HG40		003	C	5SJ4 125-8HG40		004	1	1 unit	0.120
	30		C	5SJ4 130-7HG40		003	C	5SJ4 130-8HG40		004	1	1 unit	0.120
	32		C	5SJ4 132-7HG40		003	C	5SJ4 132-8HG40		004	1	1 unit	0.120
	35		C	5SJ4 135-7HG40		003	C	5SJ4 135-8HG40		004	1	1 unit	0.120
	40		C	5SJ4 140-7HG40		003	C	5SJ4 140-8HG40		004	1	1 unit	0.120
	45		C	5SJ4 145-7HG40		003	C	5SJ4 145-8HG40		004	1	1 unit	0.120
	50		C	5SJ4 150-7HG40		003	C	5SJ4 150-8HG40		004	1	1 unit	0.120
	60		C	5SJ4 160-7HG40		003	C	5SJ4 160-8HG40		004	1	1 unit	0.120
	63		C	5SJ4 163-7HG40		003	C	5SJ4 163-8HG40		004	1	1 unit	0.120
	"same polarity" and "opposite polarity" 1P, 240 V AC												
	0.3	1	C	5SJ4 114-7HG41		003	C	5SJ4 114-8HG41		004	1	1 unit	0.155
	0.5		C	5SJ4 105-7HG41		003	C	5SJ4 105-8HG41		004	1	1 unit	0.155
	1		C	5SJ4 101-7HG41		003	C	5SJ4 101-8HG41		004	1	1 unit	0.155
	1.6		C	5SJ4 115-7HG41		003	C	5SJ4 115-8HG41		004	1	1 unit	0.155
	2		C	5SJ4 102-7HG41		003	C	5SJ4 102-8HG41		004	1	1 unit	0.155
	3		C	5SJ4 103-7HG41		003	C	5SJ4 103-8HG41		004	1	1 unit	0.155
	4		C	5SJ4 104-7HG41		003	C	5SJ4 104-8HG41		004	1	1 unit	0.155
	5		C	5SJ4 111-7HG41		003	C	5SJ4 111-8HG41		004	1	1 unit	0.155
	6		C	5SJ4 106-7HG41		003	C	5SJ4 106-8HG41		004	1	1 unit	0.155
	8		C	5SJ4 108-7HG41		003	C	5SJ4 108-8HG41		004	1	1 unit	0.155
	10		C	5SJ4 110-7HG41		003	C	5SJ4 110-8HG41		004	1	1 unit	0.155
	13		C	5SJ4 113-7HG41		003	C	5SJ4 113-8HG41		004	1	1 unit	0.155
	15		C	5SJ4 118-7HG41		003	C	5SJ4 118-8HG41		004	1	1 unit	0.155
	16		C	5SJ4 116-7HG41		003	C	5SJ4 116-8HG41		004	1	1 unit	0.155
	20		C	5SJ4 120-7HG41		003	C	5SJ4 120-8HG41		004	1	1 unit	0.155
	25		C	5SJ4 125-7HG41		003	C	5SJ4 125-8HG41		004	1	1 unit	0.155
	30		C	5SJ4 130-7HG41		003	C	5SJ4 130-8HG41		004	1	1 unit	0.155
	32		C	5SJ4 132-7HG41		003	C	5SJ4 132-8HG41		004	1	1 unit	0.155
	35		C	5SJ4 135-7HG41		003	C	5SJ4 135-8HG41		004	1	1 unit	0.155
	40		C	5SJ4 140-7HG41		003	C	5SJ4 140-8HG41		004	1	1 unit	0.155
	45		C	5SJ4 145-7HG41		003	C	5SJ4 145-8HG41		004	1	1 unit	0.155
	50		C	5SJ4 150-7HG41		003	C	5SJ4 150-8HG41		004	1	1 unit	0.155
	60		C	5SJ4 160-7HG41		003	C	5SJ4 160-8HG41		004	1	1 unit	0.155
	63		C	5SJ4 163-7HG41		003	C	5SJ4 163-8HG41		004	1	1 unit	0.155



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Universal range according to UL and IEC

	I_n	MW	DT	Characteristic C			PG	DT	Characteristic D			PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
				Order No.	Price per PU				Order No.	Price per PU						
	A															
	2P, 240 V AC															
	0.3	2	C	5SJ4 214-7HG41		003	C	5SJ4 214-8HG41		004	1	1 unit	0.310			
	0.5		C	5SJ4 205-7HG41		003	C	5SJ4 205-8HG41		004	1	1 unit	0.310			
	1		C	5SJ4 201-7HG41		003	C	5SJ4 201-8HG41		004	1	1 unit	0.310			
	1.6		C	5SJ4 215-7HG41		003	C	5SJ4 215-8HG41		004	1	1 unit	0.310			
	2		C	5SJ4 202-7HG41		003	C	5SJ4 202-8HG41		004	1	1 unit	0.310			
	3		C	5SJ4 203-7HG41		003	C	5SJ4 203-8HG41		004	1	1 unit	0.310			
	4		C	5SJ4 204-7HG41		003	C	5SJ4 204-8HG41		004	1	1 unit	0.310			
	5		C	5SJ4 211-7HG41		003	C	5SJ4 211-8HG41		004	1	1 unit	0.310			
	6		C	5SJ4 206-7HG41		003	C	5SJ4 206-8HG41		004	1	1 unit	0.310			
	8		C	5SJ4 208-7HG41		003	C	5SJ4 208-8HG41		004	1	1 unit	0.310			
	10		C	5SJ4 210-7HG41		003	C	5SJ4 210-8HG41		004	1	1 unit	0.310			
	13		C	5SJ4 213-7HG41		003	C	5SJ4 213-8HG41		004	1	1 unit	0.310			
	15		C	5SJ4 218-7HG41		003	C	5SJ4 218-8HG41		004	1	1 unit	0.310			
	16		C	5SJ4 216-7HG41		003	C	5SJ4 216-8HG41		004	1	1 unit	0.310			
	20		C	5SJ4 220-7HG41		003	C	5SJ4 220-8HG41		004	1	1 unit	0.310			
	25		C	5SJ4 225-7HG41		003	C	5SJ4 225-8HG41		004	1	1 unit	0.310			
	30		C	5SJ4 230-7HG41		003	C	5SJ4 230-8HG41		004	1	1 unit	0.310			
	32		C	5SJ4 232-7HG41		003	C	5SJ4 232-8HG41		004	1	1 unit	0.310			
	35		C	5SJ4 235-7HG41		003	C	5SJ4 235-8HG41		004	1	1 unit	0.310			
	40		C	5SJ4 240-7HG41		003	C	5SJ4 240-8HG41		004	1	1 unit	0.310			
	45		C	5SJ4 245-7HG41		003	C	5SJ4 245-8HG41		004	1	1 unit	0.310			
	50		C	5SJ4 250-7HG41		003	C	5SJ4 250-8HG41		004	1	1 unit	0.310			
	60		C	5SJ4 260-7HG41		003	C	5SJ4 260-8HG41		004	1	1 unit	0.310			
	63		C	5SJ4 263-7HG41		003	C	5SJ4 263-8HG41		004	1	1 unit	0.310			
		3P, 240 V AC														
		0.3	3	C	5SJ4 314-7HG41		003	C	5SJ4 314-8HG41		004	1	1 unit	0.465		
0.5			C	5SJ4 305-7HG41		003	C	5SJ4 305-8HG41		004	1	1 unit	0.465			
1			C	5SJ4 301-7HG41		003	C	5SJ4 301-8HG41		004	1	1 unit	0.465			
1.6			C	5SJ4 315-7HG41		003	C	5SJ4 315-8HG41		004	1	1 unit	0.465			
2			C	5SJ4 302-7HG41		003	C	5SJ4 302-8HG41		004	1	1 unit	0.465			
3			C	5SJ4 303-7HG41		003	C	5SJ4 303-8HG41		004	1	1 unit	0.465			
4			C	5SJ4 304-7HG41		003	C	5SJ4 304-8HG41		004	1	1 unit	0.465			
5			C	5SJ4 311-7HG41		003	C	5SJ4 311-8HG41		004	1	1 unit	0.465			
6			C	5SJ4 306-7HG41		003	C	5SJ4 306-8HG41		004	1	1 unit	0.465			
8			C	5SJ4 308-7HG41		003	C	5SJ4 308-8HG41		004	1	1 unit	0.465			
10			C	5SJ4 310-7HG41		003	C	5SJ4 310-8HG41		004	1	1 unit	0.465			
13			C	5SJ4 313-7HG41		003	C	5SJ4 313-8HG41		004	1	1 unit	0.465			
15			C	5SJ4 318-7HG41		003	C	5SJ4 318-8HG41		004	1	1 unit	0.465			
16			C	5SJ4 316-7HG41		003	C	5SJ4 316-8HG41		004	1	1 unit	0.465			
20			C	5SJ4 320-7HG41		003	C	5SJ4 320-8HG41		004	1	1 unit	0.465			
25			C	5SJ4 325-7HG41		003	C	5SJ4 325-8HG41		004	1	1 unit	0.465			
30			C	5SJ4 330-7HG41		003	C	5SJ4 330-8HG41		004	1	1 unit	0.465			
32			C	5SJ4 332-7HG41		003	C	5SJ4 332-8HG41		004	1	1 unit	0.465			
35			C	5SJ4 335-7HG41		003	C	5SJ4 335-8HG41		004	1	1 unit	0.465			
40			C	5SJ4 340-7HG41		003	C	5SJ4 340-8HG41		004	1	1 unit	0.465			
45			C	5SJ4 345-7HG41		003	C	5SJ4 345-8HG41		004	1	1 unit	0.465			
50			C	5SJ4 350-7HG41		003	C	5SJ4 350-8HG41		004	1	1 unit	0.465			
60			C	5SJ4 360-7HG41		003	C	5SJ4 360-8HG41		004	1	1 unit	0.465			
63			C	5SJ4 363-7HG41		003	C	5SJ4 363-8HG41		004	1	1 unit	0.465			



BETA Protecting Miniature Circuit Breakers

Main miniature circuit breakers, SHU

Overview

Selective main miniature circuit breakers are used as circuit breakers at meter panels or as group miniature circuit breakers in distribution board applications.

Characteristic E is adapted to the special application requirements for cascade circuits between melting fuses and miniature circuit breakers.

The devices can be screwed onto a mounting plate or attached to a 40 mm busbar by means of an adapter.

Using a mounting plate, they can be mounted on a standard mounting rail according to EN 60715.

Benefits

- Improved current limiting characteristics increases plant protection, thanks to the selective main miniature circuit breakers supporting downstream miniature circuit breakers.
- High and safe selectivity between sub-distribution and meter panel ensures the supply of the unaffected circuits in the event of a fault, thus improving plant availability.
- The selective main miniature circuit breaker prevents the affected circuit from being reconnected until the fault is eliminated. Greater safety during operation
- No previous knowledge required for operation of the selective main miniature circuit breakers. This ensures fast and safe disconnection and reconnection of loads.

Selection and ordering data

6 000 3	I_n	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Main miniature circuit breakers									
	1P								
	16	2	B	5SP3 716		005	1	1 unit	0.550
	20		C	5SP3 720		005	1	1 unit	0.550
	25		B	5SP3 725		005	1	1 unit	0.550
	32		C	5SP3 732		005	1	1 unit	0.550
	35		A	5SP3 735		005	1	1 unit	0.550
	40		B	5SP3 740		005	1	1 unit	0.550
	50		B	5SP3 750		005	1	1 unit	0.550
	63		A	5SP3 763		005	1	1 unit	0.550
	80		B	5SP3 780		005	1	1 unit	0.550
	100		B	5SP3 791		005	1	1 unit	0.550
Main miniature circuit breakers, 3 x single-pole									
	Premounted on 5ST1 324 busbar adapter; can be clipped onto busbars (spacing: 40 mm); including three 5ST1 323 transparent operating protective covers								
	16	6	B	5SP3 716-1		005	1	1 set	1.700
	20		B	5SP3 720-1		005	1	1 set	1.700
	25		B	5SP3 725-1		005	1	1 set	1.700
	32		B	5SP3 732-1		005	1	1 set	1.700
	35		A	5SP3 735-1		005	1	1 set	1.700
	40		A	5SP3 740-1		005	1	1 set	1.700
	50		A	5SP3 750-1		005	1	1 set	1.700
	63		A	5SP3 763-1		005	1	1 set	1.700
	80		B	5SP3 780-1		005	1	1 set	1.700
	100		B	5SP3 791-1		005	1	1 set	1.700
Busbar adapters									
	Suitable for busbar spacing 40 mm Can be equipped with 3 selective main miniature circuit breakers								
			B	5ST1 328		005	1	1 unit	0.234
Breaker blocking covers									
	To prevent manual off-switching								
			D	5ST1 318		005	1	10 units	0.001

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BETA Protecting Miniature Circuit Breakers

Main miniature circuit breakers, SHU Circuit breaker terminals

6 000 3	I_n	MW DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	A							
	Transparent operating protective covers Multiple locking options against accidental and intended operation • With padlocks • Phillips screwdrivers • With special wrenches (Antilux) • For installation by the operator or the power supply company	B	5ST1 323		005	1	3 units	0.012
								
	Terminal covers 2 units required per device; for covering terminals within the overall dimensions according to DIN 43880	B	5ST1 316		005	1	6 units	0.001

Overview

Circuit breaker terminals are used for short-circuit protection or for protection against overloading and short-circuiting in auxiliary and control circuits after control transformers.

All terminals are designed for 2 wires. The terminal block labeling accessories are used for inscription.

Benefits

- Integration of line protection switching function in the terminal technology of control cabinets in compact 12 mm design
- Display of switch position or the "Tripped" state for the fast detection of faults
- Switching/isolating function facilitates fault locating
- Device versions with integral auxiliary switch (AS) signal the contact position
- Device versions with floating through-type connection parallel to the switching contacts facilitate line connection.

Selection and ordering data

Version	I_n	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	A							
	Terminal size 1.5 mm² With short-circuit release							
	1	A	5SK9 011-1KK24		027	1	10 units	0.053
	2	A	5SK9 011-1KK25		027	1	10 units	0.052
	4	B	5SK9 011-1KK26		027	1	10 units	0.053
	6	A	5SK9 011-1KK27		027	1	10 units	0.053
	10	B	5SK9 011-1KK28		027	1	10 units	0.050
	With overload and short-circuit release							
	1	A	5SK9 011-2KK24		027	1	10 units	0.053
	2	A	5SK9 011-2KK25		027	1	10 units	0.052
	4	A	5SK9 011-2KK26		027	1	10 units	0.053
	6	A	5SK9 011-2KK27		027	1	10 units	0.053
	10	B	5SK9 011-2KK28		027	1	10 units	0.050
	Terminal size 2.5 mm² With short-circuit release, auxiliary switch with 1 NO and 1 NC							
	1	B	5SK9 011-6KK24		027	1	5 units	0.096
	2	B	5SK9 011-6KK25		027	1	5 units	0.093
	4	B	5SK9 011-6KK26		027	1	5 units	0.092
	6	B	5SK9 011-6KK27		027	1	5 units	0.093
	10	B	5SK9 011-6KK28		027	1	5 units	0.090

BETA Protecting Miniature Circuit Breakers

Circuit breaker terminals

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Version	I_n	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A								
With overload and short-circuit release, auxiliary switch with 1 NO and 1 NC and through-type connection								
	1	B	5SK9 011-4KK24		027	1	5 units	0.089
	2	A	5SK9 011-4KK25		027	1	5 units	0.092
	4	A	5SK9 011-4KK26		027	1	5 units	0.091
	6	B	5SK9 011-4KK27		027	1	5 units	0.105
	10	B	5SK9 011-4KK28		027	1	5 units	0.088
With overload and short-circuit release, auxiliary switch with 1 NO and 1 NC								
	0.5	B	5SK9 011-8KK23		027	1	5 units	0.092
	1	A	5SK9 011-8KK24		027	1	5 units	0.092
	2	A	5SK9 011-8KK25		027	1	5 units	0.097
	4	A	5SK9 011-8KK26		027	1	5 units	0.092
	6	A	5SK9 011-8KK27		027	1	5 units	0.090
	10	B	5SK9 011-8KK28		027	1	5 units	0.090
Feeder terminals								
Rated uninterrupted current 76 A Connection up to 16 mm ²								
A								
Link rails, single-phase								
Rated uninterrupted current 65 A								
5 connections								
• Length 104 mm								
• For terminals: 8WA1 011-4SF2., 8WA1 011-6SF2., 8WA1 011-8SF2.								
9 connections								
• Length 104 mm								
• For terminals: 8WA1 011-1SF2., 8WA1 011-2SF2.								
10 connections								
• Length 206 mm								
• For terminals: 5SK9 011-4KK2., 5SK9 011-6KK2.								
18 connections								
• Length 206 mm								
• For terminals: 5SK9 011-1KK2., 5SK9 011-2KK2.								
Link rails, two-phase								
Rated uninterrupted current 120 A For terminal: 5SK9 011-4KK2.								
5 connections/pole								
• Length 104 mm								
9 connections/pole								
• Length 206 mm								



5ST1 822-7KK02



5ST1 822-7KK01



5ST1 822-7KK04



5ST1 822-7KK03

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BETA Protecting Residual Current Protective Devices

RCCBs, type A

Overview

RCCBs of type A are used in all systems up to 240/415 V AC. They trip in the event of both sinusoidal AC residual currents and pulsating DC residual currents.

RCCBs with a rated residual current of maximum 30 mA are used for personnel, material and fire protection, as well as for protection against direct contact. RCCBs with a rated residual current of 10 mA are primarily used in areas that represent an increased risk for personnel.

Since DIN VDE 0100-410 came into effect in June 2007, all socket outlet current circuits up to 20 A must now also be fitted with residual current protective devices with a rated residual current of max. 30 mA. This also applies to outdoor electrical circuits up to 32 A for the connection of portable equipment.

Devices with a rated residual current of maximum 300 mA are used as preventative fire protection in case of insulation faults. RCCBs with a rated residual current of 100 mA are primarily used outside Europe.

SIGRES

SIGRES RCCBs were developed for use in harsh ambient conditions, such as swimming baths as protection against chlorine and ozone, in the agricultural sector (ammonia), on building sites and in the chemical industry (nitrogen oxide, sulfur dioxide, solvents), in the food processing industry (hydrogen sulfide) and in unheated rooms (dampness). The patented active condensation protection requires the infeed from below with the RCCBs switched off.

Super resistant

Super resistant (short-time delayed) RCCBs comply with the maximum permissible break times for instantaneous devices. However, by implementing a short-time delay they prevent unnecessary trippings, and thus plant faults, when pulse-shaped leakage currents occur - as is the case when capacitors are switched on.

Selective

Selective RCCBs are used as upstream group switches for selective tripping as opposed to the downstream, instantaneous or super resistant RCCBs of type A. Selective RCCBs up to 300 mA are also used for preventative fire protection in the case of insulation faults. The dimensioning of the rated residual current depends on the size of the plant.

Benefits

- Instantaneous RCCBs with the N-connection on the left-hand side enable simple bus-mounting with standard pin busbars with MCBs installed on the right-hand side
- Instantaneous RCCBs with the N-connection on the right-hand side can be bus-mounted with MCBs using a special pin busbar
- Instantaneous devices have a surge current withstand capability with current waveform 8/20 μ s of more than 1 kA, super resistant of more than 3 kA and selective of more than 5 kA. This ensures safe operation
- SIGRES has an extremely long endurance due to patented active condensation protection and the same dimensions for fast and easy replacement of already installed instantaneous RCCBs
- Super resistant devices increase plant availability, as unnecessary tripping is prevented in systems with short-time voltage peaks
- Selective RCCBs increase plant availability, as in the event of a fault, a staggered tripping time enables the selective tripping of RCCBs connected in series
- Auxiliary switches or remote-controlled operating mechanisms are also available as additional components
- The operating handle and the test button can be locked by means of a handle locking device.

BETA Protecting Residual Current Protective Devices

RCCBs, type A

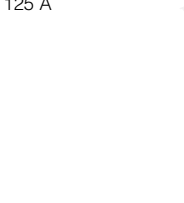
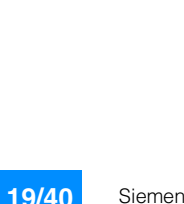
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Selection and ordering data

	Rated residual current	Rated current	Max. permissible short-circuit series fuse	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	$I_{\Delta n}$ mA	I_n A	 10 000 A								kg
RCCBs, type A											
Instantaneous											
1P+N; 125 ... 230 V AC; 50 ... 60 Hz											
 up to 40 A	10	16	63	2	A	5SM3 111-6		007	1	1 unit	0.230
	30	16	63	2	A	5SM3 311-6		007	1	1 unit	0.230
		25				5SM3 312-6		007	1	1 unit	0.230
		40				5SM3 314-6		007	1	1 unit	0.230
		63	100	2.5	A	5SM3 316-6		007	1	1 unit	0.320
 63 A and 80 A		80			B	5SM3 317-6		007	1	1 unit	0.320
		100		2	B	5SM3 318-6KK		007	1	1 unit	0.245
		125			B	5SM3 315-6KK		007	1	1 unit	0.245
	100	25	63	2	B	5SM3 412-6		007	1	1 unit	0.230
		40			B	5SM3 414-6		007	1	1 unit	0.230
 100 A and 125 A		63	100	2.5	B	5SM3 416-6		007	1	1 unit	0.300
		80			B	5SM3 417-6		007	1	1 unit	0.300
		100	125	2	B	5SM3 418-6KK		007	1	1 unit	0.245
		125			B	5SM3 415-6KK		007	1	1 unit	0.245
	300	25	63	2	A	5SM3 612-6		007	1	1 unit	0.210
 up to 80 A		40			A	5SM3 614-6		007	1	1 unit	0.210
		63	100	2.5	B	5SM3 616-6		007	1	1 unit	0.280
		80			B	5SM3 617-6		007	1	1 unit	0.280
		100	125	2	B	5SM3 618-6KK		007	1	1 unit	0.245
		125			B	5SM3 615-6KK		007	1	1 unit	0.245
 up to 80 A	3P+N; 230 ... 400 V AC; 50 ... 60 Hz										
	N-connection, right										
	30	25	100	4		5SM3 342-6		007	1	1 unit	0.500
		40				5SM3 344-6		007	1	1 unit	0.500
		63				5SM3 346-6		007	1	1 unit	0.500
 125 A		80			A	5SM3 347-6		007	1	1 unit	0.500
		125	125		A	5SM3 345-6		007	1	1 unit	0.500
	100	40	100	4	A	5SM3 444-6		007	1	1 unit	0.460
		63			A	5SM3 446-6		007	1	1 unit	0.460
		125	125		B	5SM3 445-6		007	1	1 unit	0.480
 125 A	300	25	100	4	A	5SM3 642-6		007	1	1 unit	0.440
		40			A	5SM3 644-6		007	1	1 unit	0.440
		63			A	5SM3 646-6		007	1	1 unit	0.440
		80			A	5SM3 647-6		007	1	1 unit	0.440
		125	125		A	5SM3 645-6		007	1	1 unit	0.480
 125 A	500	25	100	4	B	5SM3 742-6		007	1	1 unit	0.440
		40			A	5SM3 744-6		007	1	1 unit	0.440
		63			A	5SM3 746-6		007	1	1 unit	0.440
		125	125		A	5SM3 745-6		007	1	1 unit	0.480
 125 A	N-connection, left										
	30	25	100	4	B	5SM3 342-6KL		007	1	1 unit	0.500
		40				5SM3 344-6KL		007	1	1 unit	0.500
		63			B	5SM3 346-6KL		007	1	1 unit	0.500
		80			B	5SM3 347-6KL		007	1	1 unit	0.500
 125 A	300	25	100	4	B	5SM3 642-6KL		007	1	1 unit	0.440
		40			B	5SM3 644-6KL		007	1	1 unit	0.440
		63			B	5SM3 646-6KL		007	1	1 unit	0.440
		80			B	5SM3 647-6KL		007	1	1 unit	0.440

* You can order this quantity or a multiple thereof.

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BETA Protecting Residual Current Protective Devices

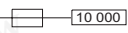
RCCBs, type A

	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Max. permissible short-circuit series fuse  A	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
RCCBs, type A											
Instantaneous, special versions											
	1P+N; 24 ... 125 V; 50 ... 60 Hz										
	30	16	63	2	B	5SM3 311-6KK13		007	1	1 unit	0.280
	3P+N; 500 V AC; 50 ... 60 Hz										
	30	25	63	4	B	5SM3 352-6		007	1	1 unit	0.500
		40			B	5SM3 354-6		007	1	1 unit	0.500
		63			B	5SM3 356-6		007	1	1 unit	0.500
	300	25	63	4	B	5SM3 652-6		007	1	1 unit	0.440
		40			B	5SM3 654-6		007	1	1 unit	0.440
		63			B	5SM3 656-6		007	1	1 unit	0.440
	3P+N; 230 ... 400 V AC; 50 ... 400 Hz										
	30	25	80	4	B	5SM3 342-6KK03		007	1	1 unit	0.500
		40			B	5SM3 344-6KK03		007	1	1 unit	0.500
RCCBs, type A											
SIGRES instantaneous											
	1P+N; 125 ... 230 V AC; 50 ... 60 Hz										
	30	25	63	2	B	5SM3 312-6KK12		007	1	1 unit	0.230
		40			B	5SM3 314-6KK12		007	1	1 unit	0.230
		63	100	2.5	B	5SM3 316-6KK12		007	1	1 unit	0.320
		80			B	5SM3 317-6KK12		007	1	1 unit	0.320
	3P+N; 230 ... 400 V AC; 50 ... 60 Hz										
	30	25	100	4	B	5SM3 342-6KK12		007	1	1 unit	0.500
		40			B	5SM3 344-6KK12		007	1	1 unit	0.500
		63			B	5SM3 346-6KK12		007	1	1 unit	0.500
		80			B	5SM3 347-6KK12		007	1	1 unit	0.500
	300	40	100	4	B	5SM3 644-6KK12		007	1	1 unit	0.440
		63			B	5SM3 646-6KK12		007	1	1 unit	0.440
RCCBs, type A											
SIGRES selective 											
	3P+N; 230 ... 400 V AC; 50 ... 60 Hz										
	300	63	100	4	B	5SM3 646-8KK12		007	1	1 unit	0.440

BETA Protecting Residual Current Protective Devices

RCCBs, type A

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	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Max. permissible short-circuit series fuse 	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
RCCBs, type A Super resistant 											
	1P+N; 230 ... 400 V AC; 50 ... 60 Hz										
	30	25	63	2	B	5SM3 312-6KK01		007	1	1 unit	0.230
		40			B	5SM3 314-6KK01		007	1	1 unit	0.230
		63	100	2.5	B	5SM3 316-6KK01		007	1	1 unit	0.320
	300	63	100	2.5	B	5SM3 616-6KK01		007	1	1 unit	0.320
	3P+N; 230 ... 400 V AC; 50 ... 60 Hz										
	30	25	100	4	B	5SM3 342-6KK01		007	1	1 unit	0.500
		40			B	5SM3 344-6KK01		007	1	1 unit	0.500
		63			B	5SM3 346-6KK01		007	1	1 unit	0.500
	300	40	100	4	B	5SM3 644-6KK01		007	1	1 unit	0.492
		63			B	5SM3 646-6KK01		007	1	1 unit	0.491
		80			B	5SM3 647-6KK01		007	1	1 unit	0.493
RCCBs, type A Selective 											
	1P+N; 125 ... 230 V AC; 50 ... 60 Hz										
	100	63	100	2.5	B	5SM3 416-8		007	1	1 unit	0.300
	300	40	100	2	B	5SM3 614-8		007	1	1 unit	0.250
		63		2.5	A	5SM3 616-8		007	1	1 unit	0.280
		80			B	5SM3 617-8		007	1	1 unit	0.320
	3P+N; 230 ... 400 V AC; 50 ... 60 Hz										
	N-connection, right										
	100	40	100	4	B	5SM3 444-8		007	1	1 unit	0.460
		63			B	5SM3 446-8		007	1	1 unit	0.460
	300	40	100	4	A	5SM3 644-8		007	1	1 unit	0.440
		63			A	5SM3 646-8		007	1	1 unit	0.440
		125	125	4	A	5SM3 645-8		007	1	1 unit	0.480
	500	125	125	4	B	5SM3 745-8		007	1	1 unit	0.480
	1000	63	100	4	A	5SM3 846-8		007	1	1 unit	0.515
up to 80 A											
	N-connection, left										
	300	63	100	4	B	5SM3 646-8KL		007	1	1 unit	0.440
125 A											

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BETA Protecting Residual Current Protective Devices

SEQUENCE, type B

Overview

Frequency converters, medical devices and UPS systems are seeing increasing usage in industry. Smooth DC residual currents or currents with low residual ripple may occur in the event of faults on these devices.

Type A residual current protective devices are unable to detect these smooth DC residual currents. Furthermore, such smooth DC residual currents make Type A devices increasingly insensitive to AC residual currents and pulsating DC residual currents. Hence if a fault occurs, there is no tripping and the desired protection function is no longer assured.

Universal current-sensitive residual current protective devices of Type B have an additional transformer which is supplied with a control signal. Hence it is possible to evaluate the change of the transformer's operating range caused by smooth DC residual currents. The desired protection function is thus assured.

The devices in this series are designed as residual current operated circuit breakers (RCCBs) up to 80 A and as residual current circuit breakers with integral overcurrent protection (RCBOs) for 100 A or 125 A in Characteristics C or D.

Benefits

- Universal current-sensitive residual current protective devices detect not only AC residual currents and pulsating DC residual currents, but also smooth DC residual currents, thus ensuring the desired protection function with all types of residual current.
- The tripping characteristic is adapted to the increase of leakage currents at higher frequencies in systems with capacitive impedances and results in increased operating safety.
- The RCBO is a compact device for up to 125 A. It provides not only personnel, property and fire protection but also overload and short-circuit protection for cables. This enables great savings on wiring and installation costs.

Selection and ordering data

	Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Max. permissible short-circuit series fuse  10 000 A	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
SEQUENCE RCCBs, type B												
Super resistant [K]												
	3P+N; 230 ... 400 V AC; 50 ... 60 Hz											
	30	25	100	4	A	5SM3 342-4		008	1	1 unit	0.600	
		40			A	5SM3 344-4		008	1	1 unit	0.600	
		63			A	5SM3 346-4		008	1	1 unit	0.600	
		80			B	5SM3 347-4		008	1	1 unit	0.600	
	300	25	100	4	▶ A	5SM3 642-4		008	1	1 unit	0.520	
		40			A	5SM3 644-4		008	1	1 unit	0.520	
		63			A	5SM3 646-4		008	1	1 unit	0.520	
		80			B	5SM3 647-4		008	1	1 unit	0.520	
	500	63	100	4	B	5SM3 746-4		008	1	1 unit	0.520	
		80			B	5SM3 747-4		008	1	1 unit	0.520	
	SEQUENCE RCCBs, type B											
Selective [S]												
	3P+N; 230 ... 400 V AC; 50 ... 60 Hz											
	300	63	100	4	B	5SM3 646-5		008	1	1 unit	0.520	
		80			B	5SM3 647-5		008	1	1 unit	0.520	
	500	63	100	4	B	5SM3 746-5		008	1	1 unit	0.520	
80		B			5SM3 747-5		008	1	1 unit	0.520		
SEQUENCE RCBOs, type B												
Super resistant [K], rated short-circuit capacity 10 kA												
	4P; 400 V AC; 50 ... 60 Hz											
	Characteristic C											
	30	100	11	B	5SU1 374-7AK81		011	1	1 unit	2.050		
		125			B	5SU1 374-7AK82		011	1	1 unit	2.050	
		300		100	11	B	5SU1 674-7AK81		011	1	1 unit	2.050
				125		B	5SU1 674-7AK82		011	1	1 unit	2.050
	Characteristic D											
	30	100	11	B	5SU1 374-8AK81		011	1	1 unit	2.050		
		300			100	B	5SU1 674-8AK81		011	1	1 unit	2.050
	4P; 480 V AC; 50 ... 60 Hz											
	Characteristic C											
	300	100	11	B	5SU1 674-7CK81		011	1	1 unit	2.050		
125		B			5SU1 674-7CK82		011	1	1 unit	2.050		

* You can order this quantity or a multiple thereof.

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SIQUENCE, type B

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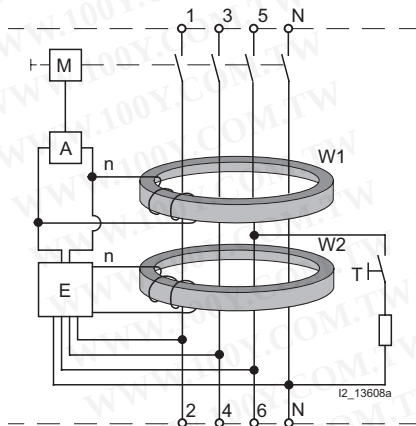
Rated residual current $I_{\Delta n}$ mA	Rated current I_n A	Max. permissible short-circuit series fuse  10 000 A	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
SIQUENCE RCBOs, type B Selective [S], rated short-circuit capacity 10 kA 4P; 400 V AC; 50 ... 60 Hz Characteristic C 300 125 Characteristic D 300 100										
					11 B	5SU1 674-7BK82	011	1	1 unit	1.950
					11 B	5SU1 674-8BK81	011	1	1 unit	1.950

More information

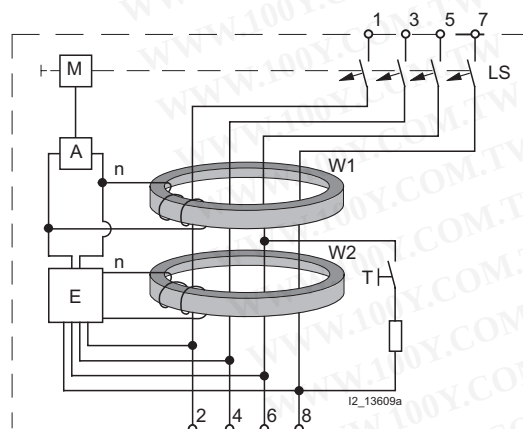
Device setup

Universal current-sensitive residual current protective devices are based on a pulse-current-sensitive circuit-protection device with tripping independent of line voltage, supplemented with an auxiliary unit for the detection of smooth DC residual currents. The diagrams below show the basic design.

The summation current transformer W1 monitors the electrical system for AC and pulse current-type residual currents. The summation current transformer W2 detects the smooth DC residual currents and, in the event of a fault, relays the tripping command through electronic unit E to release A, which uses the mechanics to disconnect the circuit.



Design of RCCBs



Design of RCBOs

- M Mechanics of the RCCB
- LS Miniature circuit breaker part
- A Release
- E Electronics for tripping in the event of smooth DC residual currents
- n Secondary winding
- W1 Summation current transformer for detection of sinusoidal residual currents
- W2 Summation current transformer for detection of smooth DC residual currents
- T Test button

Method of operation

The universal current-sensitive residual current protective devices work independent of the supply voltage compliant with current requirements in Germany for type A according to DIN VDE 0664-100.

A power supply is required solely for the detection of smooth DC residual currents by a second transformer. This is done from all system cables and is dimensioned so that the electronics still reliably trip even with a voltage reduction to 50 V.

This ensures tripping for smooth DC residual currents, as long as such residual current waveforms can occur, even in the event of faults in the electrical power supply, e.g. an N-conductor break. This means that the pulse-current-sensitive switch part, which trips regardless of line voltage, will still reliably trigger the tripping operation - even in the highly unlikely event that two phase conductors and the neutral conductor fail - if the remaining intact phase conductor presents a hazard.

The residual current protective devices of type B are suitable for use in three-phase current systems before input circuits with rectifiers. They are not intended for use in DC systems and in networks with operating frequencies other than 50 or 60 Hz.

RCBOs are a combination of RCCB and miniature circuit breaker for up to 125 A in a single compact device.

It thus provides not only personnel, property and fire protection but also overload and short-circuit protection for cables. The mechanics of the RCCB act on the tripping unit of the miniature circuit breaker, which disconnects the circuit.

Protective effect at high frequencies

In addition to the described residual current waveforms (AC residual currents, pulsating and smooth DC residual currents), AC residual currents with a wide range of frequencies may also occur on electronic equipment such as rectifiers in frequency converters or computer tomographs as well as at the outgoing terminal of a frequency converter.

Requirements for frequencies up to 2 kHz are defined in the device regulations DIN VDE 0664-100.

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SEQUENCE, type B

To date, only limited statements can be made with regard to the risk of ventricular fibrillations (up to 1 kHz) for frequencies higher than 100 Hz. No reliable statements can be made on any further effects of thermal or electrolytic influence on the human organism.

For this reason, protection against direct contact is only possible for frequencies up to 100 Hz.

For higher frequencies, protection against indirect contact must be implemented under consideration of the frequency response of the residual current protective device, the maximum permissible touch voltages up to 50 V and permissible grounding resistance derived from this information.

Versions

Super resistant **[K]**: short-time delayed tripping in the case of transient leakage currents.

High surge current withstand capability: > 3 kA.

Selective **[S]**: can be used as upstream group switch for selective tripping contrary to a downstream standard RCCB.

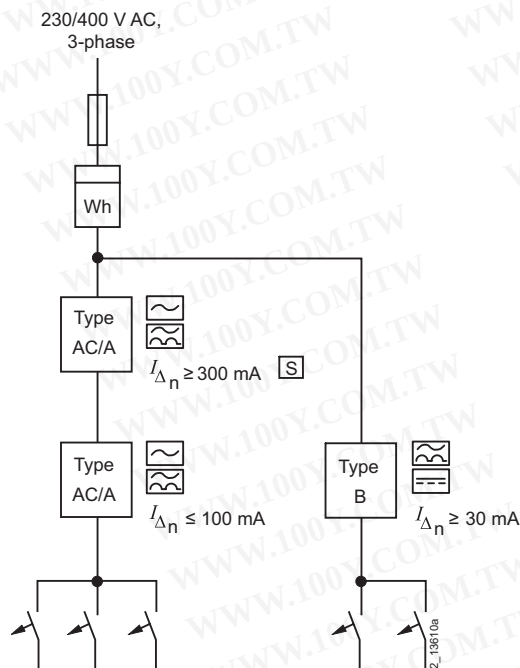
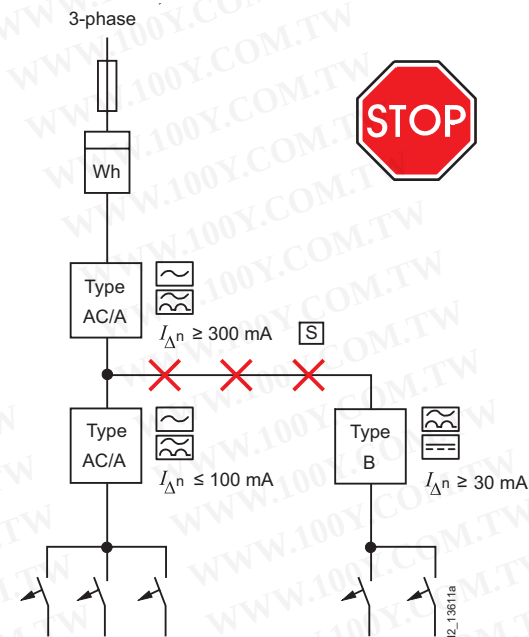
Configuration

DIN VDE 0100-530 "Selection of protective devices" also describes the configuration of systems with residual current protective devices.

EN 50178 (DIN VDE 0160) "Equipping power installations with electronic equipment" describes, among other things, how to select the type of residual current protective device suitable.

When configuring and installing electrical installations, electrical loads that can generate smooth DC residual currents in the event of a fault must be assigned a separate electrical circuit with a universal current-sensitive residual current protective device (type B).

It is not permitted to branch electrical circuits with these types of electrical loads after pulse-current-sensitive residual current protective devices (type A):



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Additional components

Overview

Auxiliary switches (AS) signal the contact position of the RCCB.

Remote-controlled operating mechanisms are used for the remote ON/OFF switching of RCCBs. They also enable local manual switching. A blocking function permits maintenance work. If the RCCB is tripped, an acknowledgment must be carried out prior to switching back on.

The leakage current measurement unit detects the leakage currents - like the circuit breaker - thus providing a direct statement as to the current loading of the RCCB. It is used to measure leakage currents up to 300 mA. This requires a voltmeter with an internal resistance more than $1\text{ M}\Omega/\text{V}$ and a measuring range for AC voltages of $U_{\text{rms}} = 1\text{ mV}$ to 2 V . For the fault-free operation of an RCCB, the measured leakage current should be no greater than $1/3$ of the rated residual current.

Benefits

- Using captive brackets, the remote-controlled operating mechanism can be attached (or retrofitted) to the right-hand side of the basic device without the need for tools
- Bus systems, such as *instabus* KNX EIB, AS-Interface bus or PROFIBUS, can be integrated in the communication over binary inputs
- The leakage current measurement unit enables the systematic selection of the rated residual current, thus preventing the inadvertent tripping of RCCBs.

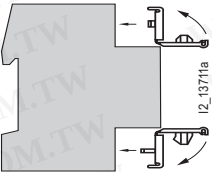
Selection and ordering data

	Version	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	Auxiliary switches (AS) For 5SM3 RCCBs up to 80 A								
	1 NO + 1 NC	0.5	▶	5SW3 300		008	1	1 unit	0.042
	2 NC	0.5	C	5SW3 301		008	1	1 unit	0.042
	2 NO	0.5	A	5SW3 302		008	1	1 unit	0.042
	Auxiliary switches (AS) For 5SM3 RCCBs up to 125 A, 3P+N								
	1 NO + 1 NC	0.5	B	5SW3 330		008	1	1 unit	0.040
	Remote-controlled operating mechanisms (RC) For 5SM3 RCCBs up to 80 A								
	Rated voltage $U_n = 230\text{ V AC}$	3.5	B	5ST3 051		027	1	1 unit	0.395
	Leakage current measurement units								
	Rated voltage $U_n = 500\text{ V AC}$; 50 ... 60 Hz; 4P	4	B	5SM1 930-0		008	1	1 unit	0.430
	Rated residual current $I_{\Delta n} = 0 \dots 300\text{ mA}$								
	Rated current $I_n = 63\text{ A}$								

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Additional components

Version	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Covers for connection terminals For residual current operated circuit breakers up to 80 A, sealable (2 units in plastic bag) 								
	2	A	5SW3 010		008	1	1 unit	0.003
	2.5	A	5SW3 011		008	1	1 unit	0.004
	4	A	5SW3 008		008	1	1 unit	0.006
Locking devices For RCCBs up to 80 A, sealable and lockable 4.5 mm lock hasp diameter 								
		B	5SW3 303		008	1	1 unit	0.008
Padlocks For 5SW3 303 locking device Locking devices with padlock Comprising 5SW3 303 locking device and 5ST3 802 padlock 								
		▶	5ST3 802		027	1	1 unit	0.027
		B	5SW3 312		008	1	1 set	0.035

More information

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

Information is available at:

Gossen-Metrawatt GmbH
 Thomas-Mann-Str. 16-20
 D-90471 Nuremberg

Tel. +49 (0) 9 11/86 02-111

Fax +49 (0) 9 11/86 02-777

<http://www.gmc-instruments.com>

E-mail: info@gmc-instruments.com

BETA Protecting Residual Current Protective Devices

RC units, type A

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Overview

RC units of type A can be used in all systems up to 240/415 V AC. They trip in the event of both sinusoidal AC fault currents and pulsating DC residual currents.

RCCBs with a rated residual current of maximum 30 mA are used for personnel, material and fire protection, as well as for protection against direct contact.

Devices with a rated residual current of maximum 300 mA are used as preventative fire protection in case of insulation faults.

RC units are combined with MCBs with characteristics A, B, C and D, provided that these are available in the MCB range. The two components are simply plugged together without the need for any tools.

They then form a combination of RCCB and MCB for personnel, fire and line protection.

Super resistant **K**

Super resistant (short-time delayed) RC units comply with the maximum permissible break times for instantaneous devices. However, by implementing a short-time delay they prevent unnecessary trippings, and thus plant faults, when pulse-shaped leakage currents occur – as is the case when capacitors are switched on.

Selective **S**

Selective RC units are used as upstream group switches for selective tripping as opposed to the downstream, instantaneous or super resistant residual current protective device of type A. Selective RC units up to 300 mA are also used as preventative fire protection against insulation faults.

The dimensioning of the rated residual current depends on the size of the plant.

Benefits

- Our wide variety of RC unit types and comprehensive range of miniature circuit breakers offer a huge spectrum of combinations for all applications
- All devices have surge current withstand capability of more than 1 kA, thus ensuring safe and reliable operation
- All additional components for miniature circuit breakers can be retrofitted on the right-hand side
- All 100 A and 125 A RC units offer external remote tripping over terminals Y1/Y2. This supports implementation of central OFF circuits
- Both components can be simply plugged into each other and secured with captive metal brackets - no tools required. This saves considerable time when mounting.



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BETA Protecting Residual Current Protective Devices

RC units, type A

Selection and ordering data

	Rated current	Rated residual current	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	I_n A	$I_{\Delta n}$ mA								kg
RC units, type A										
Instantaneous tripping										
For 5SY miniature circuit breakers but not for 5SY5 and 5SY6 0..										
2P, 230 ... 400 V AC, 50 ... 60 Hz										
	0.3 ... 16	10	2	B	5SM2 121-6		007	1	1 unit	0.180
	0.3 ... 40	30		▶	5SM2 322-6		007	1	1 unit	0.170
		300		A	5SM2 622-6		007	1	1 unit	0.170
	0.3 ... 63	30		A	5SM2 325-6		007	1	1 unit	0.170
		100		B	5SM2 425-6		007	1	1 unit	0.170
		300		B	5SM2 625-6		007	1	1 unit	0.170
	500	B		5SM2 725-6		007	1	1 unit	0.170	
3P, 230 ... 400 V AC, 50 ... 60 Hz										
	0.3 ... 40	30	3	A	5SM2 332-6		007	1	1 unit	0.260
		300		A	5SM2 632-6		007	1	1 unit	0.260
	0.3 ... 63	30		B	5SM2 335-6		007	1	1 unit	0.260
		100		B	5SM2 435-6		007	1	1 unit	0.260
		300		B	5SM2 635-6		007	1	1 unit	0.260
	500	B		5SM2 735-6		007	1	1 unit	0.260	
	4P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 40	30	3	▶	5SM2 342-6		007	1	1 unit	0.290
		300		▶	5SM2 642-6		007	1	1 unit	0.290
	0.3 ... 63	30		A	5SM2 345-6		007	1	1 unit	0.290
		100		B	5SM2 445-6		007	1	1 unit	0.290
		300		A	5SM2 645-6		007	1	1 unit	0.290
	500	A		5SM2 745-6		007	1	1 unit	0.290	
	For 5SP4 miniature circuit breakers									
2P; 125 ... 230 V AC, 50 ... 60 Hz										
	80 ... 100	30	3.5	B	5SM2 327-6		007	1	1 unit	0.410
		300		B	5SM2 627-6		007	1	1 unit	0.410
4P; 230 ... 400 V AC, 50 ... 60 Hz										
	80 ... 100	30	5	B	5SM2 347-6		007	1	1 unit	0.630
		300		A	5SM2 647-6		007	1	1 unit	0.630

* You can order this quantity or a multiple thereof.

BETA Protecting Residual Current Protective Devices

RC units, type A

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	Rated current I_n A	Rated residual current $I_{\Delta n}$ mA	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	RC units, type A Super resistant [K] For 5SY miniature circuit breakers but not for 5SY5 and 5SY6 0.. 2P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 40	30	2	B	5SM2 322-6KK01		007	1	1 unit	0.350
	0.3 ... 63	30		B	5SM2 325-6KK01		007	1	1 unit	0.350
	3P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 40	30	3	B	5SM2 332-6KK01		007	1	1 unit	0.365
	0.3 ... 63	30		B	5SM2 335-6KK01		007	1	1 unit	0.365
	RC units, type A Selective [S] For 5SY miniature circuit breakers but not for 5SY5 and 5SY6 0.. 2P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 40	300	2	A	5SM2 622-8		007	1	1 unit	0.170
	0.3 ... 63	300		B	5SM2 625-8		007	1	1 unit	0.170
	3P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 63	300 500 1000	3	B	5SM2 635-8		007	1	1 unit	0.260
				B	5SM2 735-8		007	1	1 unit	0.400
										
				B	5SM2 835-8		007	1	1 unit	0.260
	4P, 230 ... 400 V AC, 50 ... 60 Hz									
	0.3 ... 63	300 500 1000	3	A	5SM2 645-8		007	1	1 unit	0.290
				A	5SM2 745-8		007	1	1 unit	0.400
				A	5SM2 845-8		007	1	1 unit	0.290
	For 5SP4 miniature circuit breakers 2P; 125 ... 230 V AC, 50 ... 60 Hz 80 ... 100									
		300	3.5	B	5SM2 627-8		007	1	1 unit	0.410
										
	4P; 230 ... 400 V AC, 50 ... 60 Hz									
	80 ... 100	300 1000	5	A	5SM2 647-8		007	1	1 unit	0.630
				A	5SM2 847-8		007	1	1 unit	0.630

* You can order this quantity or a multiple thereof.

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BETA Protecting Residual Current Protective Devices

RCBOs, type A

Overview

RCBOs are a combination of an RCCB and a miniature circuit breaker in a compact design for personnel, fire and line protection. For personnel and fire protection, the residual current part of the type A trips in the event of sinusoidal AC residual currents and pulsating DC residual currents.

RCBOs with a rated residual current of maximum 30 mA are used for personnel, material and fire protection, as well as for protection against direct contact. RCBOs with a rated residual current of 10 mA are primarily used in areas that represent an increased risk for personnel and the outdoor installations of residential buildings.

Devices with a rated residual current of maximum 300 mA are used as preventative fire protection in case of insulation faults.

The MCB part of the RCBO protects lines against overload and short-circuits and is available in characteristics B and C.

Since DIN VDE 0100-410 came into effect in June 2007, all socket outlet current circuits up to 20 A must now also be fitted with residual current protective devices with a rated residual current of max. 30 mA. This also applies to outdoor electrical circuits up to 32 A for the connection of portable equipment.

In order to implement this protection, we recommend the national use of RCBOs with 30 mA.

Assignment to each individual branch circuit, helps prevent the unwanted tripping of fault-free circuits induced by the accumulation of operation-related leakage currents or by transient current pulses during switching operations.

Additional components of the 5SY miniature circuit breakers can be mounted at the side and carry out additional functions.

For further details on additional components, please refer to the chapter "Miniature circuit breakers".

Benefits



For all versions

- Clear and visible conductor connection that can be easily checked in front of the busbar.
- Large and easily accessible wiring space enables easy insertion of conductor in the terminals.
- The surge current withstand capability of more than 1 kA ensures safe and reliable operation
- All additional components for miniature circuit breakers can be retrofitted on the right-hand side.

For all 10 kA versions up to 40 A

- Integrated movable terminal covers located at the cable entries ensure the terminals are fully insulated when the screws are tightened. The effective touch protection when grasping the device considerably exceeds the requirements of BGV A3.
- The RCBOs can be quickly and easily removed from the assembly by hand if connections need to be replaced. This saves time if parts need to be replaced because the busbars no longer need to be freed from the adjacent miniature circuit breakers.



For all 125 A versions

- The RCBOs offer external remote tripping over terminals Y1/Y2. This supports implementation of central OFF circuits.

BETA Protecting Residual Current Protective Devices

RCBOs, type A

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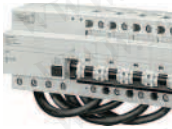
Selection and ordering data

	Rated residual current	Rated current	MW	DT	Tripping characteristic B		PG	DT	Tripping characteristic C		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	$I_{\Delta n}$ mA	I_n A			Order No.	Price per PU			Order No.	Price per PU				kg
	RCBOs, type A Instantaneous 1P+N; 230 V AC; 50 ... 60 Hz													
	6 000 3													
	30	6	2	A	5SU1 356-6KK06		011	A	5SU1 356-7KK06		011	1	1 unit	0.260
		8			--			B	5SU1 356-7KK08		011	1	1 unit	0.260
		10		A	5SU1 356-6KK10		011	▶	5SU1 356-7KK10		011	1	1 unit	0.260
		13		B	5SU1 356-6KK13		011	A	5SU1 356-7KK13		011	1	1 unit	0.260
		16		▶	5SU1 356-6KK16		011	▶	5SU1 356-7KK16		011	1	1 unit	0.260
		20		B	5SU1 356-6KK20		011	B	5SU1 356-7KK20		011	1	1 unit	0.260
		25		B	5SU1 356-6KK25		011	A	5SU1 356-7KK25		011	1	1 unit	0.260
		32		B	5SU1 356-6KK32		011	B	5SU1 356-7KK32		011	1	1 unit	0.260
		40		B	5SU1 356-6KK40		011	B	5SU1 356-7KK40		011	1	1 unit	0.260
		300	6	2	B	5SU1 656-6KK06		011	B	5SU1 656-7KK06		011	1	1 unit
	10			B	5SU1 656-6KK10		011	A	5SU1 656-7KK10		011	1	1 unit	0.260
	13			B	5SU1 656-6KK13		011	B	5SU1 656-7KK13		011	1	1 unit	0.260
	16			B	5SU1 656-6KK16		011	A	5SU1 656-7KK16		011	1	1 unit	0.260
	20			B	5SU1 656-6KK20		011	B	5SU1 656-7KK20		011	1	1 unit	0.260
	25			B	5SU1 656-6KK25		011	B	5SU1 656-7KK25		011	1	1 unit	0.260
	32			B	5SU1 656-6KK32		011	B	5SU1 656-7KK32		011	1	1 unit	0.260
	40			B	5SU1 656-6KK40		011	B	5SU1 656-7KK40		011	1	1 unit	0.260
RCBOs, type A Instantaneous 1P+N; 230 V AC; 50 ... 60 Hz														
	10 000 3													
	10	6	2	B	5SU1 154-6KK06		011	B	5SU1 154-7KK06		011	1	1 unit	0.260
		10		B	5SU1 154-6KK10		011	B	5SU1 154-7KK10		011	1	1 unit	0.260
		13		B	5SU1 154-6KK13		011	B	5SU1 154-7KK13		011	1	1 unit	0.260
		16		B	5SU1 154-6KK16		011	▶	5SU1 154-7KK16		011	1	1 unit	0.260
	30	6	2	B	5SU1 354-6KK06		011	▶	5SU1 354-7KK06		011	1	1 unit	0.260
		8			--			B	5SU1 354-7KK08		011	1	1 unit	0.260
		10		B	5SU1 354-6KK10		011	▶	5SU1 354-7KK10		011	1	1 unit	0.260
		13		B	5SU1 354-6KK13		011	B	5SU1 354-7KK13		011	1	1 unit	0.260
		16		▶	5SU1 354-6KK16		011	▶	5SU1 354-7KK16		011	1	1 unit	0.260
		20		B	5SU1 354-6KK20		011	B	5SU1 354-7KK20		011	1	1 unit	0.260
		25		B	5SU1 354-6KK25		011	B	5SU1 354-7KK25		011	1	1 unit	0.260
		32		B	5SU1 354-6KK32		011	B	5SU1 354-7KK32		011	1	1 unit	0.260
		40		B	5SU1 354-6KK40		011	B	5SU1 354-7KK40		011	1	1 unit	0.260
	300	6	2	B	5SU1 654-6KK06		011	B	5SU1 654-7KK06		011	1	1 unit	0.260
		10		B	5SU1 654-6KK10		011	B	5SU1 654-7KK10		011	1	1 unit	0.260
		13		B	5SU1 654-6KK13		011	B	5SU1 654-7KK13		011	1	1 unit	0.260
		16		B	5SU1 654-6KK16		011	B	5SU1 654-7KK16		011	1	1 unit	0.260
		20		B	5SU1 654-6KK20		011	B	5SU1 654-7KK20		011	1	1 unit	0.260
		25		B	5SU1 654-6KK25		011	B	5SU1 654-7KK25		011	1	1 unit	0.260
		32		B	5SU1 654-6KK32		011	B	5SU1 654-7KK32		011	1	1 unit	0.260
		40		B	5SU1 654-6KK40		011	B	5SU1 654-7KK40		011	1	1 unit	0.260
		RCBOs, type A Instantaneous 2P; 230 V AC; 50 ... 60 Hz												
	10 000 3													
	30	6	3	B	5SU1 324-6FA06		011	B	5SU1 324-7FA06		011	1	1 unit	0.403
		10		▶	5SU1 324-6FA10		011	▶	5SU1 324-7FA10		011	1	1 unit	0.403
		13		B	5SU1 324-6FA13		011	B	5SU1 324-7FA13		011	1	1 unit	0.403
		16		▶	5SU1 324-6FA16		011	▶	5SU1 324-7FA16		011	1	1 unit	0.403
		20		B	5SU1 324-6FA20		011	B	5SU1 324-7FA20		011	1	1 unit	0.403
		25		B	5SU1 324-6FA25		011	B	5SU1 324-7FA25		011	1	1 unit	0.403
		32		B	5SU1 324-6FA32		011	B	5SU1 324-7FA32		011	1	1 unit	0.403
		40		B	5SU1 324-6FA40		011	B	5SU1 324-7FA40		011	1	1 unit	0.403

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BETA Protecting Residual Current Protective Devices

RCBOs, type A

	Rated residual current	Rated current	MW	DT	Tripping characteristic B		PG	DT	Tripping characteristic C		PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	$I_{\Delta n}$ mA	I_n A			Order No.	Price per PU			Order No.	Price per PU				kg
	2P; 400 V AC; 50...60 Hz													
	10 000													
	30	125	6	B	5SU1 324-6KK82		011	B	5SU1 324-7KK82		011	1	1 unit	0.930
	300	125		B	5SU1 624-6KK82		011	B	5SU1 624-7KK82		011	1	1 unit	0.930
	4P; 400 V AC; 50...60 Hz													
	10 000													
	30	125	11	B	5SU1 344-6KK82		011	B	5SU1 344-7KK82		011	1	1 unit	1.900
	300	125		B	5SU1 644-6KK82		011	B	5SU1 644-7KK82		011	1	1 unit	1.900
	RCBOs, type A Super resistant K 1P+N; 230 V AC; 50...60 Hz													
	10 000													
	3													
	30	10	3	--				B	5SU1 354-7VK10		011	1	1 unit	0.260
		16		--				B	5SU1 354-7VK16		011	1	1 unit	0.260
		20		--				B	5SU1 354-7VK20		011	1	1 unit	0.260
		25		--				B	5SU1 354-7VK25		011	1	1 unit	0.260
	RCBOs, type A Selective S 2P; 400 V AC; 50...60 Hz													
	10 000													
	300	125	6	B	5SU1 624-6WK82		011	B	5SU1 624-7WK82		011	1	1 unit	0.930
	4P; 400 V AC; 50...60 Hz													
	10 000													
	300	125	11	B	5SU1 644-6WK82		011	B	5SU1 644-7WK82		011	1	1 unit	1.900

BETA Protecting Residual Current Protective Devices

RCBOs, type A

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Version

DT

Order No.

Price
per PU

PG

PU
(UNIT,
SET, M)

PS*

Weight
per P. unit
approx
kg

Handle couplers for additional components

For mounting the additional components: auxiliary switches, fault signal contacts, shunt trips and undervoltage releases onto 5SU1 RCBOs, you require a handle coupler (1 set = 5 units).

5ST3 805-1

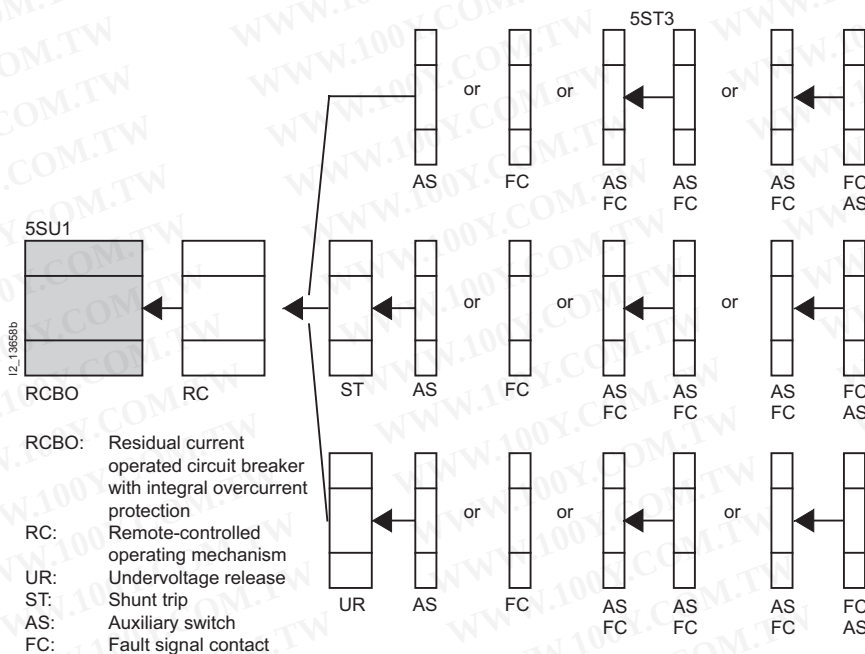
027 1

1 set

0.008

Note:

The same additional components are used for RCBOs as for MCBs. See the section "Miniature Circuit Breakers".



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BETA Protecting Residual Current Protective Devices

Busbars

Overview

4-pole 5SM3 RCCBs are bus-mounted either together or in combination with miniature circuit breakers. RCCBs with an N conductor connection on the left-hand side facilitate installation because normal busbars are used, as for miniature circuit breakers.

Busbars in 10 mm² and 16 mm² versions are available.

The extremely flexible 5ST3 6 busbar system with fixed lengths enables installation in any length as the busbars can be overlapped.

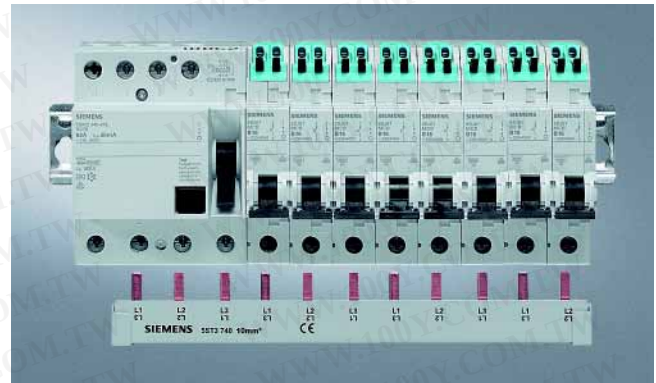
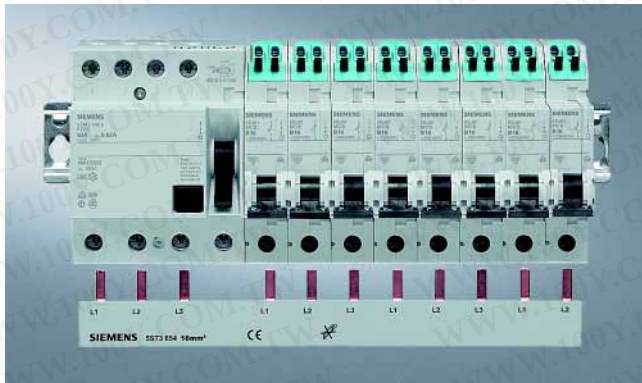
No further need for time-consuming tasks, such as cutting, cutting to length, deburring, cleaning of cut surfaces and mounting of end caps.

Any free pins on the busbars can be made finger-safe by covering with touch protection.

If several RCBOs are bus-mounted together, this is implemented with 2-phase busbars, which are used as 1+N busbars.

Benefits

- Connection of miniature circuit breakers to 4-pole RCCBs with N-connection right with 3-phase busbar, using busbar specially designed for this application. No cutting or end caps required.
- Connection of miniature circuit breakers to 4-pole RCCBs with N-connection left with 3-phase busbar that can be cut. No additional items to be stored and busbars that are always available.



- Connection of 1P+N RCBOs with 2-phase busbar. No cutting or end caps required.
- Bus-mounting of RCCBs on busbar (3-phase +N) that can be cut. A proven and frequently used application.

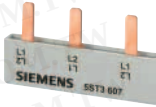
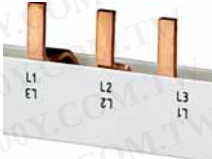


BETA Protecting Residual Current Protective Devices

Busbars

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Selection and ordering data

Version	Pin spacing	Length	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	MW	mm							
5ST3 6 busbar systems, fixed lengths, cannot be cut, fully insulated									
	For 1 RCCB 4P+N right and 8 MCB 1P								
	• 3-phase 10 mm ²	1	210	A	5ST3 624	027	1	10 units	0.075
	• 3-phase 16 mm ²	1	210	A	5ST3 654	027	1	10 units	0.114
	For 6 RCBOs 1P+N together								
	• 2-phase 10 mm ²		210	A	5ST3 608	027	1	10 units	0.048
	• 2-phase 16 mm ²		210	A	5ST3 638	027	1	10 units	0.076
5ST3 7 busbar systems, 12 MW, can be cut, with end caps									
	For 6 RCBOs 1P+N								
	• 2-phase 10 mm ²	1	214	A	5ST3 704	027	1	1 unit	0.060
	• 2-phase 16 mm ²	1	214	A	5ST3 734	027	1	1 unit	0.060
End caps for 5ST3 7, can be cut									
For 2-phase busbars				5ST3 750		027	1	10 units	0.001
Touch protection									
	For free connections, yellow (RAL 1004)			A	5ST3 655	027	1	10 units	0.003
Busbars, 56 MW, with fork-type connections, can be cut, without end caps									
	For bus-mounting RCCBs together								
	• 3-phase + N, 16 mm ²	1	1016	A	5ST2 145	027	1	1 unit	0.315
End caps for 5ST2 7, can be cut									
	For 3-phase busbars			A	5ST2 156	027	1	10 units	0.017
Terminals up to 35 mm² (stranded), for direct infeed of 5ST2 145 busbar									
	Side-by-side mounting possible			A	5ST2 157	027	1	5 units	0.030

* You can order this quantity or a multiple thereof.

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BETA Protecting Residual Current Protective Devices

Accessories

Accessories

	Version	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	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	B	5SW3 004		008	1	1 unit	0.084
		B	5SW3 005		008	1	1 unit	0.114
	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	B	5SW3 006		008	1	1 unit	0.126
		B	5SW3 007		008	1	1 unit	0.147
	Molded-plastic enclosures, gray For surface mounting, degree of protection IP54, sealable, with 35 mm standard mounting rail, with transparent hinged lid For 4.5 MW	A	5SW1 200		008	1	1 unit	0.450
	Covers Can be assembled as mini distribution board, suitable for all devices, cover parts prepared for rail mounting of conventional label caps, comprising: • End plates (can be snapped onto standard mounting rail) • Angled profile (approx. 1 m long) • Flat profile (as a cover between the rows of devices length approx. 1 m)	A	5ST2 134		027	1	10 units	0.022
		A	5ST2 135		027	1	5 units	0.330
		B	5ST2 136		027	1	5 units	0.260
	Fixing parts Plastic 4 MW	B	5ST2 201		027	1	1 unit	0.012
	Inscription labels (white) 15 mm x 9 mm, 3 frames with 44 labels each any attachment and inscription, self-adhesive Labeling systems To download the labeling program free of charge, please visit our Web site at: 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) 61 03/75 98-660	B	5ST2 173		027	1	1 set	0.038

BETA Protecting Low-Voltage Fuse Systems

NEOZED fuse systems

勝特力材料 886-3-5753170

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Overview

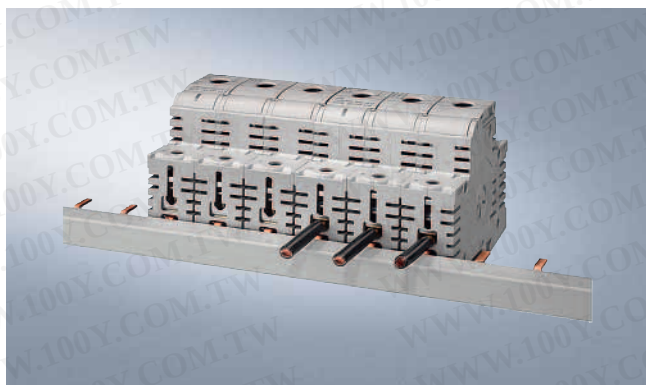
The NEOZED fuse system is primarily used in distribution technology and industrial switchgear assemblies. The system is easy to use and is also approved for domestic installation.

The MINIZED switch disconnectors are primarily used in switchgear assemblies and control engineering. They are approved for switching loads and for safe switching in the event of short-circuits. According to the recommendations of the VDEW, after the modifications to the TAB 2000 in 2006, the MINIZED D02 is also now suitable again for use in the precounter sector in household applications.

Due to its small footprint, the NEOZED disconnector is primarily used in control engineering.

The NEOZED fuse bases are the most cost-effective solution for the application of NEOZED fuses. All NEOZED bases must be fed from the bottom to ensure that the threaded ring is insulated during removal of the fuse link. The terminals of the NEOZED bases are available in different versions and designs to support the various installation methods.

Benefits



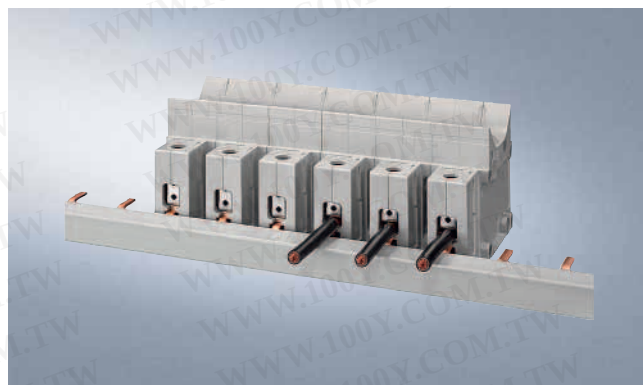
MINIZED switch disconnectors

- Clear and visible conductor connection that can be easily checked. This facilitates cable entry and saves time
- With draw-out technology for no-voltage replacement of fuses. This provides enhanced safety
- The infeed of the devices can be from the top or the bottom. This enables flexible application.



NEOZED fuse disconnectors

- With draw-out technology for no-voltage replacement of fuses. This provides enhanced safety
- Extremely narrow design with a single MW per pole. This saves space and costs.



NEOZED fuse bases made of molded plastic

- Clear and visible conductor connection that can be easily checked. This facilitates cable entry and saves time
- Greater safety for personnel thanks to terminals with touch protection acc. to BGV A3 at incoming and outgoing feeders. This ensures enhanced safety
- Two type ranges with different terminals offer expanded application options.



NEOZED fuse bases made of ceramic

- Different terminal versions support a huge range of different installation methods. This increases flexibility
- These bases are the most widely used devices for applications with NEOZED fuses. An unrivaled cost-effective solution.

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BETA Protecting Low-Voltage Fuse Systems

NEOZED fuse systems

Selection and ordering data

Size	Number of poles	I_n	Identification color	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A											
NEOZED fuse links											
Rated voltage 400 V AC/250 V DC											
Operational class gG											
	D01	2	Pink		▶	5SE2 302		016	1	10 units	0.006
		4	Brown		▶	5SE2 304		016	1	10 units	0.006
		6	Green		▶	5SE2 306		016	1	10 units	0.006
		10	Red		▶	5SE2 310		016	1	10 units	0.007
		13	Black	A		5SE2 013-2A		016	1	10 units	0.007
		16	Gray		▶	5SE2 316		016	1	10 units	0.007
	D02	20	Blue		▶	5SE2 320		016	1	10 units	0.012
		25	Yellow		▶	5SE2 325		016	1	10 units	0.013
		32	Black	B		5SE2 332		016	1	10 units	0.014
		35	Black		▶	5SE2 335		016	1	10 units	0.014
		40	Black	B		5SE2 340		016	1	10 units	0.014
		50	White		▶	5SE2 350		016	1	10 units	0.015
	D03	63	Copper		▶	5SE2 363		016	1	10 units	0.016
		80	Blue		▶	5SE2 280		016	1	10 units	0.039
		100	Red		▶	5SE2 300		016	1	10 units	0.042
Versions for Italy only (not approved)											
	D01	20	Blue	C		5SE2 820		016	1	10 units	0.011
		25	Yellow	C		5SE2 825		016	1	10 units	0.012
MINIZED switch disconnectors with fuses											
Using draw-out technology with touch protection to BGV A3											
	D02	1P	63	1.5	▶	5SG7 113		016	1	1 unit	0.145
		1P+N	63	3	B	5SG7 153		016	1	1 unit	0.267
		2P	63	3	B	5SG7 123		016	1	1 unit	0.283
		3P	63	4.5	▶	5SG7 133		016	1	1 unit	0.421
		3P+N	63	6	B	5SG7 163		016	1	1 unit	0.540
Versions for Austria only, with permanently fitted adapter sleeves, incl. fuse link											
	D02	3P	25	4.5	B	5SG7 133-8BA25		016	1	1 unit	0.420
			35		B	5SG7 133-8BA35		016	1	1 unit	0.420
			50		B	5SG7 133-8BA50		016	1	1 unit	0.420
Reducers											
For fuse links D01, in MINIZED switch disconnectors D02											
					C	5SH5 527		016	1	10 units	0.003
Auxiliary switches (AS)											
For MINIZED switch disconnectors											
	D02			0.5	▶	5ST3 010		027	1	1 unit	0.050
		1 NO + 1 NC									

BETA Protecting Low-Voltage Fuse Systems

NEOZED fuse systems

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	Size	Number of poles	I_n	Matching cover ¹⁾	MW DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
MINIZED switch disconnectors											
	A										
	D01	1P	16		1 ▶	5SG7 713		016	1	3 units	0.080
		1P+N	16		2 A	5SG7 753		016	1	2 units	0.150
		2P	16		2 A	5SG7 723		016	1	1 unit	0.160
		3P	16		3 ▶	5SG7 733		016	1	1 unit	0.254
		3P+N	16		4 A	5SG7 763		016	1	1 unit	0.310
	Version for Italy only (not approved)										
	D01	1P	25		B	5SG7 713-1B		016	1	3 units	0.080
		1P+N	25		B	5SG7 753-1B		016	1	2 units	0.150
		2P	25		B	5SG7 723-1B		016	1	2 units	0.160
NEOZED fuse disconnectors Using draw-out technology With touch protection according to BGV A3											
	D01	1P	16		1 A	5SG7 610		016	1	1 unit	0.070
		1P+N	16		2 B	5SG7 650		016	1	1 unit	0.150
		2P	16		2 B	5SG7 620		016	1	1 unit	0.150
		3P	16		3 A	5SG7 630		016	1	1 unit	0.220
		3P+N	16		4 B	5SG7 660		016	1	1 unit	0.300
NEOZED comfort bases made of molded plastic With touch protection according to BGV A3											
	D01	1P	16	—	1.5 ▶	5SG1 301		016	1	3 units	0.123
	D02		63	—	▶	5SG1 701		016	1	3 units	0.120
	D01	3P	16	—	4.5 ▶	5SG5 301		016	1	1 unit	0.371
	D02		63	—	▶	5SG5 701		016	1	1 unit	0.360
NEOZED fuse bases made of molded plastic With touch protection acc. to BGV A3											
	With cover										
	D01	1P	16	(A1)	1.5 A	5SG1 330		016	1	6 units	0.068
	D02		63	(A1)	1.5 A	5SG1 730		016	1	6 units	0.087
	Without cover										
	D01	1P	16	A1	1.5 B	5SG1 331		016	1	6 units	0.056
	D02		63	A1	1.5 A	5SG1 731		016	1	6 units	0.080
	With cover										
	D01	3P	16	(A2)	4.5 A	5SG5 330		016	1	2 units	0.216
	D02		63	(A2)	4.5 A	5SG5 730		016	1	2 units	0.252

¹⁾ Covers in brackets are included in the scope of supply.
Covers without brackets are not included in scope of supply.

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BETA Protecting Low-Voltage Fuse Systems

NEOZED fuse systems

	Size	Number of poles	I_n	Matching cover ¹⁾	Terminals	MW DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
NEOZED fuse bases made of ceramic												
With cover												
	D01	1P	16	(A4)	BB	1.5 ▶	5SG1 553		016	1	6 units	0.083
	D02		63	(A10)	SS	1.5 ▶	5SG1 653		016	1	6 units	0.093
	D02		63	(A10)	KS	1.5 ▶	5SG1 693		016	1	6 units	0.090
Without cover												
	D01	1P	16	A4	BB	1.5 B	5SG1 595		016	1	6 units	0.071
	D02		63	A10	SS	1.5 ▶	5SG1 655		016	1	6 units	0.081
	D02		63	A10	KS	1.5 B	5SG1 695		016	1	6 units	0.078
	D03		100	A6, A9	KS	2.5 A	5SG1 812		016	1	10 units	0.176
For screw connection only, without cover												
	D01	1P	16	A4	BB	1.5 B	5SG1 590		016	1	6 units	0.061
	D02		63	A10	SS	1.5 B	5SG1 650		016	1	6 units	0.078
	D03		100	A6, A9	KS	2.5 B	5SG1 810		016	1	10 units	0.176
With cap												
	D01	1P	16	(A8)	BB	1.5 ▶	5SG1 594		016	1	6 units	0.105
	D02		63	(A8)	SS	1.5 B	5SG1 694		016	1	6 units	0.115
	D03		100	(A9)	KS	2.5 B	5SG1 813		016	1	10 units	0.242
With cover												
	D01	3P	16	(A5)	BB	4.5 ▶	5SG5 553		016	1	2 units	0.263
	D02		63	(A11)	SS	4.5 ▶	5SG5 653		016	1	2 units	0.240
	D02		63	(A11)	KS	4.5 ▶	5SG5 693		016	1	2 units	0.290
Without cover												
	D01	3P	16	A5	BB	4.5 B	5SG5 555		016	1	2 units	0.228
	D02		63	A11	SS	4.5 B	5SG5 655		016	1	2 units	0.265
	D02		63	A11	KS	4.5 B	5SG5 695		016	1	2 units	0.255
For screw connection only, without cover												
	D01	3P	16	A5	BB	4.5 B	5SG5 550		016	1	2 units	0.228
	D02		63	A11	SS	4.5 B	5SG5 650		016	1	2 units	0.260
	D02		63	A11	KS	4.5 B	5SG5 690		016	1	2 units	0.250
NEOZED covers												
Made of molded plastic, plug-in												
For fuse base made of molded plastic												
	D01, D02			A1		1.5 C	5SH5 244		016	1	5 units	0.008
	D01, D02			A2		4.5 C	5SH5 245		016	1	5 units	0.017
For fuse bases made of ceramic												
	D01			A4		1.5 B	5SH5 251		016	1	15 units	0.012
	D02			A10		1.5 B	5SH5 253		016	1	15 units	0.020

¹⁾ Covers in brackets are included in the scope of supply.
 Covers without brackets are not included in scope of supply.

BETA Protecting Low-Voltage Fuse Systems

NEOZED fuse systems

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

	Size	Matching cover	MW DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
NEOZED covers									
	D01	A5	4.5 C	5SH5 252		016	1	5 units	0.035
	D02	A11	4.5 C	5SH5 254		016	1	5 units	0.045
	Screw-on D03	A6	2.5 B	5SH5 233		016	1	20 units	0.021
NEOZED caps Made of molded plastic, plug-in									
	D01, D02	A8	B	5SH5 235		016	1	5 units	0.034
	Screw-on D03	A9	C	5SH5 234		016	1	10 units	0.066
NEOZED screw caps Molded plastic, with inspection hole									
	D01		▶	5SH4 116		016	1	10 units	0.007
	D02		▶	5SH4 163		016	1	10 units	0.008
	Ceramic D01, sealable		A	5SH4 316		016	1	10 units	0.014
	D02, sealable		A	5SH4 363		016	1	10 units	0.015
	D03		A	5SH4 100		016	1	3 units	0.070
	Ceramic, with inspection hole D01		▶	5SH4 317		016	1	20 units	0.014
	D02		▶	5SH4 362		016	1	20 units	0.017

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BETA Protecting Low-Voltage Fuse Systems

NEOZED fuse systems

Size	For fuse links	Identification color	MW DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
NEOZED adapter sleeves									
	D01	2	Pink	▶ 5SH5 002		016	1	10 units	0.001
		4	Brown	▶ 5SH5 004		016	1	10 units	0.001
		6	Green	▶ 5SH5 006		016	1	10 units	0.001
		10/13	Red	▶ 5SH5 010		016	1	10 units	0.001
	D02	20	Blue	▶ 5SH5 020		016	1	10 units	0.001
		25	Yellow	▶ 5SH5 025		016	1	10 units	0.001
		32/35/40	Black	▶ 5SH5 035		016	1	10 units	0.001
		50	White	▶ 5SH5 050		016	1	10 units	0.001
	D03	80	Silver	A 5SH5 080		016	1	10 units	0.001
For fuse links D01 in base D02									
	D02	2	Pink	A 5SH5 402		016	1	10 units	0.001
		4	Brown	A 5SH5 404		016	1	10 units	0.001
		6	Green	A 5SH5 406		016	1	10 units	0.001
		10/13	Red	A 5SH5 410		016	1	10 units	0.001
		16	Gray	A 5SH5 416		016	1	10 units	0.001
NEOZED adapter sleeve fitters									
			A	5SH5 100		016	1	1 unit	0.016
NEOZED retaining springs									
For fuse links D01 in screw caps.									
	D02	2 ... 16		A 5SH5 400		016	1	25 units	0.001
	DL	2 ... 16		A 5SH5 417		016	1	25 units	0.001
Busbar adapters									
	For mounting MINIZED switch disconnectors on busbars 12 x 5 mm at a distance of 40 mm Rated current 63 A, 16 mm²		4.5 C	5SH5 503		016	1	1 unit	0.280

BETA Protecting Low-Voltage Fuse Systems

NEOZED fuse systems

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More information



Fuse base D01 with terminal type BB

- Incoming feeder, clamp-type terminal B
- Outgoing feeder, clamp-type terminal B



Fuse base D02 with terminal type KS

- Incoming feeder, screw head contact K
- Outgoing feeder, saddle terminal S



Fuse base D02 with terminal type SS

- Incoming feeder, saddle terminal S
- Outgoing feeder, saddle terminal S

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BETA Protecting Low-Voltage Fuse Systems

DIAZED fuse systems

Overview

The DIAZED fuse system is one of the oldest fuse systems in the world. It was developed by Siemens as far back as 1906. It is still the standard fuse system in many countries to this day. It is particularly widely used in the harsh environments of industrial applications.

The series is available with rated voltages from 500 to 750 V.

All DIAZED bases must be fed from the bottom to ensure an insulated threaded ring when the fuse link is being removed. Reliable contact of the fuse links is only ensured when used together with DIAZED screw adapters.

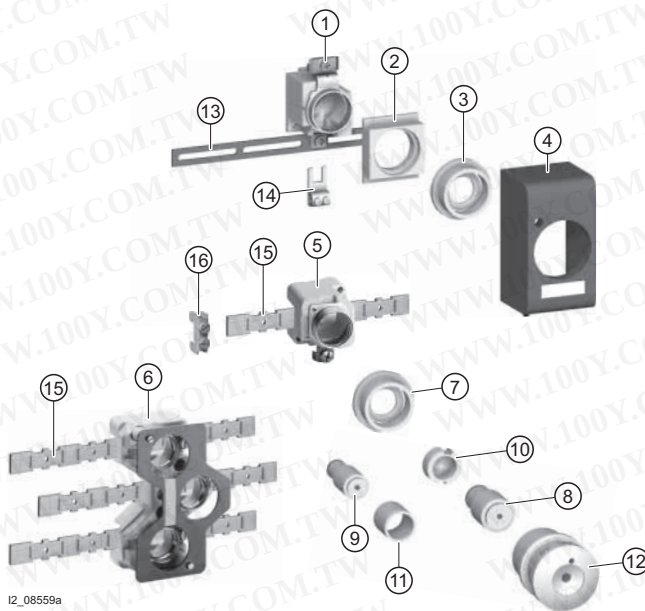
The terminals of the DIAZED bases are available in different versions and designs to support the various installation methods.

The high-performing EZR bus-mounting system for screw connection is an outstanding feature. The busbars, which are particularly suited for bus-mounting bases, have a load capacity of up to 150 A with lateral infeed.

DIAZED stands for **D**iametral gestuftes **z**weiteiliges Sicherungs-system mit **E**disongewinde (diametral two-step fuse system with Edison screw).

Benefits

DIAZED fuse systems are a result of the well-designed modular system, the components can be combined in any way to meet the various requirements and to facilitate different installation methods.



BETA Protecting Low-Voltage Fuse Systems

DIAZED fuse systems

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Selection and ordering data

	Size	U_n	I_n	Identifi- cation color	Thread	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		V AC/ V DC	A										
DIAZED fuse links													
Operational class gG													
	DII	500/500	2	Pink	E27			5SB2 11		016	1	5 units	0.026
			4	Brown				5SB2 21		016	1	5 units	0.026
			6	Green				5SB2 31		016	1	5 units	0.026
			10	Red				5SB2 51		016	1	5 units	0.027
			16	Gray				5SB2 61		016	1	5 units	0.028
			20	Blue				5SB2 71		016	1	5 units	0.029
			25	Yellow				5SB2 81		016	1	5 units	0.031
				DIII		500/500	32	Black	E33		B	5SB4 010	
35	Black				A		5SB4 11			016	1	5 units	0.050
50	White				A		5SB4 21			016	1	5 units	0.051
63	Copper				A		5SB4 31			016	1	5 units	0.054
	DIV	500/400	80	Silver	R1¼"		B	5SC2 11		016	1	3 units	0.110
			100	Red			B	5SC2 21		016	1	3 units	0.110
Characteristic: slow													
	TNDz	500/500	2	Pink	E16		B	5SA2 11		016	1	10 units	0.013
			4	Brown			B	5SA2 21		016	1	10 units	0.013
			6	Green			B	5SA2 31		016	1	10 units	0.013
			10	Red			B	5SA2 51		016	1	10 units	0.013
			16	Gray			B	5SA2 61		016	1	10 units	0.013
			20	Blue			B	5SA2 71		016	1	10 units	0.015
			25	Yellow			B	5SA2 81		016	1	10 units	0.016
Characteristic: quick													
	NDz	500/500	2	Pink	E16		B	5SA1 11		016	1	10 units	0.013
			4	Brown			B	5SA1 21		016	1	10 units	0.013
			6	Green			B	5SA1 31		016	1	10 units	0.013
			10	Red			B	5SA1 51		016	1	10 units	0.013
			16	Gray			B	5SA1 61		016	1	10 units	0.013
			20	Blue			B	5SA1 71		016	1	10 units	0.015
			25	Yellow			B	5SA1 81		016	1	10 units	0.016
	DII	500/500	2	Pink	E27		B	5SB1 11		016	1	5 units	0.026
			4	Brown			B	5SB1 21		016	1	5 units	0.026
			6	Green			B	5SB1 31		016	1	5 units	0.026
			10	Red ¹⁾			B	5SB1 41		016	1	5 units	0.026
			10	Red			A	5SB1 51		016	1	5 units	0.027
			16	Gray			A	5SB1 61		016	1	5 units	0.028
			20	Blue			A	5SB1 71		016	1	5 units	0.029
			25	Yellow			A	5SB1 81		016	1	5 units	0.031
	DIII	500/500	35	Black	E33		A	5SB3 11		016	1	5 units	0.050
			50	White			A	5SB3 21		016	1	5 units	0.051
			63	Copper			A	5SB3 31		016	1	5 units	0.054
	DIV	500/500	80	Silver	R1¼"		B	5SC1 11		016	1	3 units	0.110
			100	Red			B	5SC1 21		016	1	3 units	0.110
Operational class gG, use 5SF1 and 5SF5 fuse base made of ceramic For 2 A ... 25 A, use screw adapter DII													
	DIII	690/600	2	Pink	E33		B	5SD8 002		016	1	5 units	0.068
			4	Brown			B	5SD8 004		016	1	5 units	0.068
			6	Green			B	5SD8 006		016	1	5 units	0.068
			10	Red			B	5SD8 010		016	1	5 units	0.068
			16	Gray			B	5SD8 016		016	1	5 units	0.069
			20	Blue			B	5SD8 020		016	1	5 units	0.071
			25	Yellow			B	5SD8 025		016	1	5 units	0.072
			35	Black			B	5SD8 035		016	1	5 units	0.078
			50	White			B	5SD8 050		016	1	5 units	0.080
			63	Copper			B	5SD8 063		016	1	5 units	0.082

¹⁾ Use screw adapter 6 A.

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BETA Protecting Low-Voltage Fuse Systems

DIAZED fuse systems

	Size	U_n	I_n	Identification color	Thread	Terminals	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		V AC/ V DC	A										
	Characteristic: quick, also for direct current railway facilities For 2 A ... 25 A, use screw adapter DII												
	DIII	750/750	2	Pink	E33		A	5SD6 01		016	1	5 units	0.068
			4	Brown			B	5SD6 02		016	1	5 units	0.068
			6	Green			B	5SD6 03		016	1	5 units	0.068
			10	Red			B	5SD6 04		016	1	5 units	0.068
			16	Gray			B	5SD6 05		016	1	5 units	0.069
			20	Blue			B	5SD6 06		016	1	5 units	0.071
			25	Yellow			A	5SD6 07		016	1	5 units	0.072
			35	Black			B	5SD6 08		016	1	5 units	0.078
			50	White			B	5SD6 10		016	1	5 units	0.080
			63	Copper			B	5SD6 11		016	1	5 units	0.082
DIAZED fuse bases made of ceramic													
	1P, for standard mounting rail												
	NDz	500/500	25		E16	KK	A	5SF1 012		016	1	5 units	0.060
	DII		25		E27	BB	▶	5SF1 005		016	1	5 units	0.093
	DIII		63		E33	BS	▶	5SF1 205		016	1	5 units	0.191
	1P, for screw connection												
	NDz	500/500	25		E16	KK	A	5SF1 01		016	1	5 units	0.055
	DII		25		E27	BB	A	5SF1 024		016	1	5 units	0.093
	DIII		63		E33	BS	A	5SF1 224		016	1	5 units	0.137
	1P, with flat connection												
	DIV		100		R1¼"		B	5SF1 401		016	1	1 unit	0.380
	3P, for standard mounting rail, with cap and N-type fixpoint terminal												
	DII	500/500	3 × 25		E27	BB	B	5SF5 067		016	1	1 unit	0.400
	DIII	690/600	3 × 63		E33	BB	B	5SF5 237		016	1	1 unit	0.580
	3P, for screw connection, with cap and N-type fixpoint terminal												
	DII	500/500	3 × 25		E27	KB	B	5SF5 066		016	1	1 unit	0.410
	DIII	690/600	3 × 63		E33	KB	B	5SF5 236		016	1	1 unit	0.590
DIAZED fuse bases made of molded plastic													
With touch protection BGV A3													
	1P, for standard mounting rail or screw connection												
	DII	500/500	25		E27		▶	5SF1 060		016	1	3 units	0.152
	DIII	500/500	63		E33		▶	5SF1 260		016	1	3 units	0.186
	3P												
	DII	500/500	3 × 25		E27		▶	5SF5 068		016	1	1 unit	0.457
	DIII	500/500	3 × 63		E33		▶	5SF5 268		016	1	1 unit	0.538

BETA Protecting Low-Voltage Fuse Systems

DIAZED fuse systems

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	Size	U_n	I_n	Thread	Terminals	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		V AC/V DC	A									
DIAZED components 750 V												
	DIAZED fuse bases 1P, for screw connection with fine thread and cap											
	DIII	750/750	63	E33S	KK	A	5SF4 230		016	1	1 unit	0.460
	DIAZED screw caps Made of ceramic, with fine thread											
	DIII	750/750	63	E33S		A	5SH1 161		016	1	5 units	0.084
DIAZED EZR bus-mounting bases												
	1P, to snap onto EZR busbars For screw connection											
	DII	500/500	25	E27	B	B	5SF6 005		016	1	5 units	0.072
	DIII	500/500	63	E33	B	B	5SF6 205		016	1	5 units	0.135
	3P											
	DII	500/500	3 x 25	E27	B	B	5SF2 07		016	1	1 unit	0.351
DIAZED screw caps												
	Ceramic NDz											
	DII	500/500	25	E16		A	5SH1 11		016	1	5 units	0.016
	Molded plastic, with inspection hole, black, not for SILIZED fuse links											
	DII	500/500	25	E27		▶	5SH1 221		016	1	5 units	0.026
	DIII		63	E33		▶	5SH1 231		016	1	5 units	0.042
	Ceramic											
	DII	500/500	25	E27		▶	5SH1 12		016	1	5 units	0.034
	DIII		63	E33		▶	5SH1 13		016	1	5 units	0.059
	Ceramic, with inspection hole, sealable											
	DII	500/500	25	E27		A	5SH1 22		016	1	5 units	0.050
	DIII		63	E33		A	5SH1 23		016	1	5 units	0.076
	Ceramic											
	DIV	500/500	100	R1¼"		C	5SH1 141		016	1	1 unit	0.181
	Ceramic, prolonged version											
	DIII	690/600	63	E33		A	5SH1 170		016	1	5 units	0.086

* You can order this quantity or a multiple thereof.

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BETA Protecting Low-Voltage Fuse Systems

DIAZED fuse systems

Size	Thread	For fuse links	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
A									kg
DIAZED screw adapters									
	NDz	E16	2	C	5SH3 28	016	1	10 units	0.002
			4	C	5SH3 31	016	1	10 units	0.002
			6	C	5SH3 05	016	1	10 units	0.002
			10	C	5SH3 06	016	1	10 units	0.002
			16	C	5SH3 07	016	1	10 units	0.002
Also for 5SF2 30 up to 750 V									
	DII	E27	2	▶	5SH3 10	016	1	10 units	0.015
			4	▶	5SH3 11	016	1	10 units	0.015
			6	▶	5SH3 12	016	1	10 units	0.015
			10	▶	5SH3 13	016	1	10 units	0.015
			16	▶	5SH3 14	016	1	10 units	0.014
			20	▶	5SH3 15	016	1	10 units	0.012
			25	▶	5SH3 16	016	1	10 units	0.012
Also for 5SF2 30 up to 750 V									
	DIII	E33	35	▶	5SH3 17	016	1	10 units	0.019
			50	▶	5SH3 18	016	1	10 units	0.018
			63	▶	5SH3 20	016	1	10 units	0.017
DIAZED adapter sleeves									
	DIV	R1¼"	80	C	5SH3 21	016	1	10 units	0.006
			100	C	5SH3 22	016	1	10 units	0.005
DIAZED adapter sleeves for screw caps									
	For NDz/TNDz fuse links in base DII			C	5SH3 01	016	1	10 units	0.012
	For DII fuse links in base DIII			B	5SH3 02	016	1	10 units	0.023
DIAZED adapter sleeve fitters									
	DII/DIII			A	5SH3 703	016	1	1 unit	0.025
DIAZED covers made of molded plastic									
Not for SILIZED fuse links									
	DII	5 bases = 12 MW	E27	▶	5SH2 032	016	1	10 units	0.017
	DIII	4 bases = 12 MW	E33	▶	5SH2 232	016	1	10 units	0.020
DIAZED caps made of molded plastic									
	NDz	E16		A	5SH2 01	016	1	5 units	0.028
	DII	E27		A	5SH2 02	016	1	5 units	0.038
	DIII	E33		A	5SH2 22	016	1	5 units	0.048

BETA Protecting Low-Voltage Fuse Systems

DIAZED fuse systems

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Size	Thread	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
DIAZED cover rings								
Ceramic DII and DIII, also for EZR bus-mounting base								
NDz	E16	C	5SH3 30		016	1	5 units	0.020
DII	E27	B	5SH3 32		016	1	10 units	0.029
DIII	E33	B	5SH3 34		016	1	10 units	0.035
Made of molded plastic, also for EZR bus-mounting base								
DII	E27	A	5SH3 401		016	1	5 units	0.013
DIII	E33	A	5SH3 411		016	1	5 units	0.014

More information



Fuse base DIII with terminal type BS

- Incoming feeder, clamp-type terminal B
- Outgoing feeder, saddle terminal S



Fuse base NDZ with terminal type KK

- Incoming feeder, screw head contact K
- Outgoing feeder, screw head contact K



Fuse base DII with terminal type SS

- Incoming feeder, saddle terminal S
- Outgoing feeder, saddle terminal S

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BETA Protecting Low-Voltage Fuse Systems

Cylindrical fuse systems

Overview

Cylindrical fuses are standard in Europe. There are different cylindrical fuse links and holders that comply with the standards IEC 60269-1, -2 and -3. They are suitable for operation in industrial applications. In South West Europe they are also approved for use in residential buildings.

The cylindrical fuse holders are also approved to UL 512. The cylindrical fuse holders are tested and approved as fuse disconnectors according to the switching device standard IEC 60947-3. They are not suitable for switching loads.

Cylindrical fuse holders can be supplied with or without signal detectors. In the case of devices with signal detector, a small electronic device with LED is located behind an inspection window in the plug-in module. If the inserted fuse link is tripped, this is indicated by the LED flashing

Benefits

- The devices with pole number 1P+N are available in a single modular width. This reduces the footprint by 50 %.
- The sliding catch for type ranges 8 x 32 mm and 10 x 38 mm enables the removal of individual devices from the assembly
- Space for a spare fuse in the plug-in module enables the fast replacement of fuses. This saves time and money and increases plant availability.
- A flashing LED signals that a fuse link has been tripped. This enables fast detection during runtime.

Selection and ordering data

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

BETA Protecting Low-Voltage Fuse Systems

Cylindrical fuse systems

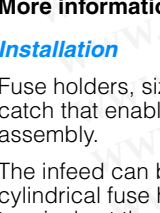
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Sizes	I_n	U_n	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
mm x mm	A	V AC							kg
Cylindrical fuse links									
Operational class aM									
	10 x 38	0.5	500	B	3NW8 000-1	018	1	10 units	0.003
		1		B	3NW8 011-1	018	1	10 units	0.008
		2		B	3NW8 002-1	018	1	10 units	0.008
		4		B	3NW8 004-1	018	1	10 units	0.008
		6		B	3NW8 001-1	018	1	10 units	0.008
		8		B	3NW8 008-1	018	1	10 units	0.003
		10		A	3NW8 003-1	018	1	10 units	0.008
		12		B	3NW8 006-1	018	1	10 units	0.008
		16		B	3NW8 005-1	018	1	10 units	0.008
		20		B	3NW8 007-1	018	1	10 units	0.008
		25	400	B	3NW8 010-1	018	1	10 units	0.008
	14 x 51	2	500	B	3NW8 102-1	018	1	10 units	0.019
		4		B	3NW8 104-1	018	1	10 units	0.019
		6		B	3NW8 101-1	018	1	10 units	0.019
		8		B	3NW8 108-1	018	1	10 units	0.019
		10		B	3NW8 103-1	018	1	10 units	0.019
		12		B	3NW8 106-1	018	1	10 units	0.019
		16		B	3NW8 105-1	018	1	10 units	0.019
		20		B	3NW8 107-1	018	1	10 units	0.019
		25		B	3NW8 110-1	018	1	10 units	0.019
		32		B	3NW8 112-1	018	1	10 units	0.019
		40		B	3NW8 117-1	018	1	10 units	0.019
		50	400	B	3NW8 120-1	018	1	10 units	0.019
	22 x 58	10	500	B	3NW8 203-1	018	1	10 units	0.051
		12		B	3NW8 206-1	018	1	10 units	0.051
		16		B	3NW8 205-1	018	1	10 units	0.051
		20		B	3NW8 207-1	018	1	10 units	0.051
		25		B	3NW8 210-1	018	1	10 units	0.051
		32		B	3NW8 212-1	018	1	10 units	0.051
		40		B	3NW8 217-1	018	1	10 units	0.051
		50		B	3NW8 220-1	018	1	10 units	0.051
		63		B	3NW8 222-1	018	1	10 units	0.051
		80		B	3NW8 224-1	018	1	10 units	0.051
		100	400	B	3NW8 230-1	018	1	10 units	0.051
Number of poles	I_n	For fuse links of size	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	Weight per P. unit approx
A		mm x mm							kg
Cylindrical fuse holders with signal detector									
	1P								
	20	8 x 32	1	C	3NW7 314	018	1	1 unit	0.059
	32	10 x 38	1	A	3NW7 014	018	1	1 unit	0.059
	50	14 x 51	1.5	A	3NW7 112	018	1	1 unit	0.095
	100	22 x 58	2	B	3NW7 212	018	1	1 unit	0.145
1P+N	20	8 x 32	1	C	3NW7 354	018	1	1 unit	0.072
	32	10 x 38	1	A	3NW7 054	018	1	1 unit	0.072
	50	14 x 51	3	A	3NW7 152	018	1	1 unit	0.215
	100	22 x 58	4	B	3NW7 252	018	1	1 unit	0.330
2P	20	8 x 32	2	C	3NW7 324	018	1	1 unit	0.123
	32	10 x 38	2	A	3NW7 024	018	1	1 unit	0.123
	50	14 x 51	3	A	3NW7 122	018	1	1 unit	0.195
	100	22 x 58	4	B	3NW7 222	018	1	1 unit	0.300
3P	20	8 x 32	3	C	3NW7 334	018	1	1 unit	0.180
	32	10 x 38	3	A	3NW7 034	018	1	1 unit	0.180
	50	14 x 51	4.5	A	3NW7 132	018	1	1 unit	0.295
	100	22 x 58	6	B	3NW7 232	018	1	1 unit	0.480
3P+N	20	8 x 32	3	C	3NW7 364	018	1	1 unit	0.193
	32	10 x 38	3	A	3NW7 064	018	1	1 unit	0.193
	50	14 x 51	6	A	3NW7 162	018	1	1 unit	0.315
	100	22 x 58	8	B	3NW7 262	018	1	1 unit	0.475

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Cylindrical fuse systems

	Number of poles	I_n A	For fuse links of size mm x mm	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Cylindrical fuse holders without signal detector											
	1P	20	8 x 32	1	A	3NW7 313		018	1	1 unit	0.056
		32	10 x 38	1	▶	3NW7 013		018	1	1 unit	0.056
		50	14 x 51	1.5	▶	3NW7 111		018	1	1 unit	0.095
		100	22 x 58	2	▶	3NW7 211		018	1	1 unit	0.145
	1P+N	20	8 x 32	1	A	3NW7 353		018	1	1 unit	0.069
		32	10 x 38	1	▶	3NW7 053		018	1	1 unit	0.069
		50	14 x 51	3	B	3NW7 151		018	1	1 unit	0.215
		100	22 x 58	4	B	3NW7 251		018	1	1 unit	0.330
	2P	20	8 x 32	2	A	3NW7 323		018	1	1 unit	0.118
		32	10 x 38	2	▶	3NW7 023		018	1	1 unit	0.118
		50	14 x 51	3	▶	3NW7 121		018	1	1 unit	0.195
		100	22 x 58	4	▶	3NW7 221		018	1	1 unit	0.300
	3P	20	8 x 32	3	A	3NW7 333		018	1	1 unit	0.172
		32	10 x 38	3	▶	3NW7 033		018	1	1 unit	0.172
		50	14 x 51	4.5	▶	3NW7 131		018	1	1 unit	0.295
		100	22 x 58	6	▶	3NW7 231		018	1	1 unit	0.691
	3P+N	20	8 x 32	3	A	3NW7 363		018	1	1 unit	0.185
		32	10 x 38	3	▶	3NW7 063		018	1	1 unit	0.185
		50	14 x 51	6	A	3NW7 161		018	1	1 unit	0.315
		100	22 x 58	8	A	3NW7 261		018	1	1 unit	0.475
Auxiliary switches											
For indicating disconnection of the fuse link, solely for application of striker fuse links. For retrofitting using the factory-fitted brackets. Contact: 250 V AC, 5 A, Minimum contact load: 12 V, 25 mA											
	For fuse bases		14 x 51	0.5	B	3NW7 901		018	1	1 unit	0.050
	For fuse bases		22 x 58		B	3NW7 902		018	1	1 unit	0.050

More information

Installation

Fuse holders, sizes 8 x 32 mm and 10 x 38 mm, have a sliding catch that enables the removal of individual devices from the assembly.

The infeed can be from the top or the bottom. Because the cylindrical fuse holders are fitted with the same anti-slip terminals at the top and the bottom, the devices can also be bus-mounted at the top or bottom.

Auxiliary switches

Auxiliary switches are available for cylindrical fuse holders, sizes 14 x 51 mm and 22 x 58 mm. These are simply clipped onto the base using the factory-fitted brackets. The auxiliary switches support the remote display of fuse failure. However, this is only the case if fuse links with strikers are used. When the fuse is tripped, a small striking pin - the striker - shoots out of the front of the fuse. Over an armature link in the auxiliary switch, the kinetic energy of this striker is used to switch a mini switch, which then initializes this signal over a floating contact.

BETA Protecting Low-Voltage Fuse Systems

Class CC fuse systems

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Overview

Class CC Fuses are used for "branch circuit protection".

The enclosed fuse holders are designed and tested to comply with the US National Electrical Code NEC 210.20(A). This means that when subject to continuous duty, only 80 % of the rated current is permissible as operational current.

An operational current of 100 % of the rated current (30 A) is only permissible short-time.

The devices are designed for the inscription labels of the ALPHA FIX 8WH8 120-7AA15 and 8WH8 120-7XA05 terminal blocks.

There are three different series:

- Characteristic: slow
For the protection of control transformers, reactors, inductances. Significantly slower than the minimum requirements of 12 s at $2 \times I_n$ as specified by UL for Class CC fuses.
- Characteristic: quick
For a wide range of applications, for the protection of lighting installations, heating, control systems.
- Characteristic: slow, current-limiting
Slow for overloads and quick for short-circuits. High current limiting for the protection of motor circuits.

Benefits

- For switchgear assemblies and mechanical engineers who export their plants. Compliance with the American standard is as follows:
- Approved according to UL and CSA for typical "Branch Circuit Protection" applications. This facilitates export.
- Modern design with touch protection to BGV A3 ensures safe installation.

Selection and ordering data

Number of poles	U_n	I_n	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	V	A								kg
Class CC fuse holders										
1P	600	30	1	C	3NW7 513-0HG		018	1	12 units	0.056
2P	600	30	2	C	3NW7 523-0HG		018	1	6 units	0.118
3P	600	30	3	C	3NW7 533-0HG		018	1	4 units	0.172



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BETA Protecting Low-Voltage Fuse Systems

Class CC fuse systems

$I_n^{1)}$	DT	Characteristic: slow			DT	Characteristic: quick			PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		Order No.	Price per PU	PG		Order No.	Price per PU	PG			
A		Class CC fuse links									
0.6 (6/10)	C	3NW1 006-0HG		018	--			1	10 units	0.008	
0.8 (8/10)	C	3NW1 008-0HG		018	--			1	10 units	0.008	
1	C	3NW1 010-0HG		018	C	3NW2 010-0HG		018	1	10 units	0.008
1.5 (1 ½)	C	3NW1 015-0HG		018	--			1	10 units	0.008	
2	C	3NW1 020-0HG		018	C	3NW2 020-0HG		018	1	10 units	0.008
3	C	3NW1 030-0HG		018	C	3NW2 030-0HG		018	1	10 units	0.008
4	C	3NW1 040-0HG		018	C	3NW2 040-0HG		018	1	10 units	0.008
5	C	3NW1 050-0HG		018	C	3NW2 050-0HG		018	1	10 units	0.008
6	C	3NW1 060-0HG		018	C	3NW2 060-0HG		018	1	10 units	0.008
8	C	3NW1 080-0HG		018	C	3NW2 080-0HG		018	1	10 units	0.008
10	C	3NW1 100-0HG		018	C	3NW2 100-0HG		018	1	10 units	0.008
12		--			C	3NW2 120-0HG		018	1	10 units	0.008
15	C	3NW1 150-0HG		018	C	3NW2 150-0HG		018	1	10 units	0.008
20	C	3NW1 200-0HG		018	C	3NW2 200-0HG		018	1	10 units	0.008
25	C	3NW1 250-0HG		018	C	3NW2 250-0HG		018	1	10 units	0.008
30	C	3NW1 300-0HG		018		--		1	10 units	0.008	







$I_n^{1)}$	DT	Characteristic: slow current limiting	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A		Order No.	Price per PU			
Class CC fuse links						
0.6 (6/10)		--				
0.8 (8/10)		--				
1	C	3NW3 010-0HG	018	1	10 units	0.008
1.5 (1 ½)		--				
2	C	3NW3 020-0HG	018	1	10 units	0.008
3	C	3NW3 030-0HG	018	1	10 units	0.008
4	C	3NW3 040-0HG	018	1	10 units	0.008
5	C	3NW3 050-0HG	018	1	10 units	0.008
6	C	3NW3 060-0HG	018	1	10 units	0.008
8	C	3NW3 080-0HG	018	1	10 units	0.008
10	C	3NW3 100-0HG	018	1	10 units	0.008
12	C	3NW3 120-0HG	018	1	10 units	0.008
15	C	3NW3 150-0HG	018	1	10 units	0.008
20	C	3NW3 200-0HG	018	1	10 units	0.008
25	C	3NW3 250-0HG	018	1	10 units	0.008
30	C	3NW3 300-0HG	018	1	10 units	0.008

¹⁾ Values in brackets, American English.

BETA Protecting Low-Voltage Fuse Systems

Busbars for fuse systems

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Overview

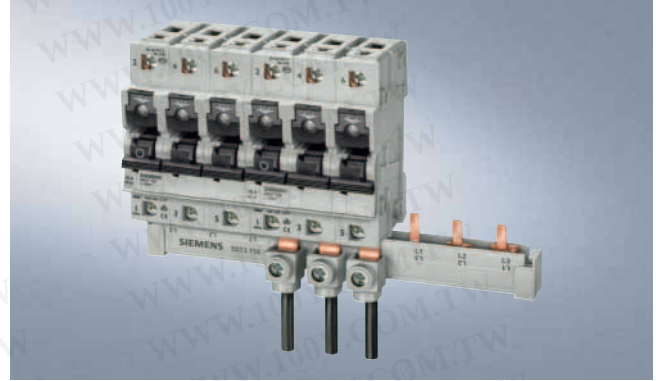
Busbars with pin-type connections can be used for NEOZED safety switching devices and fuse bases. Busbars are available in 10 mm² and 16 mm².

Busbars with fork plugs are used for the most frequently used NEOZED fuse bases made of ceramic.

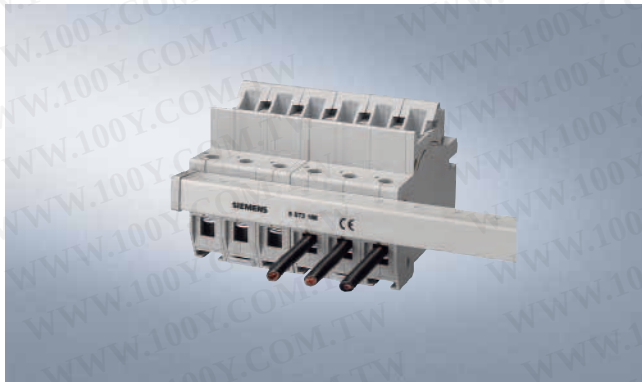
Benefits



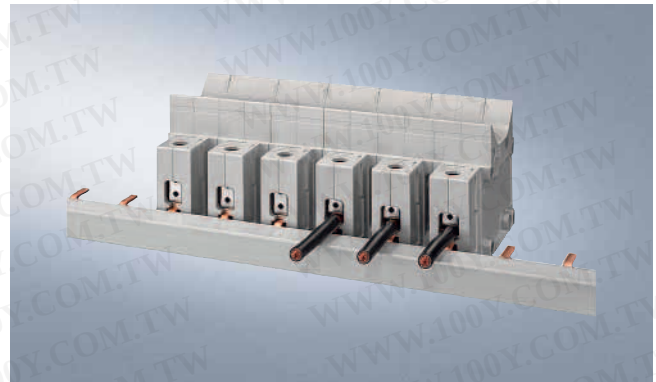
- Clear and visible conductor connection that can be easily checked when using MINIZED switch disconnectors D02. This facilitates cable entry and saves time.



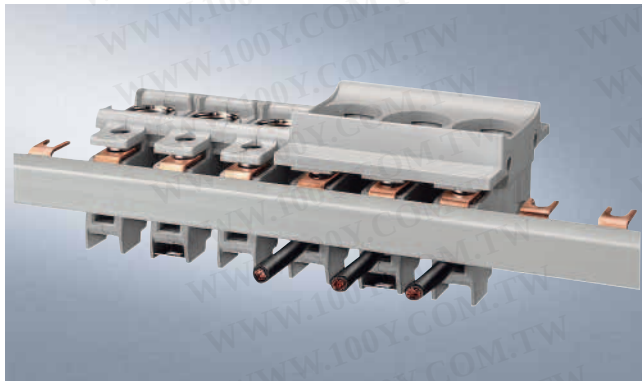
- Bus-mounting of MINIZED switch disconnectors D01 with 3-phase pin busbar, which can be cut to length. A proven and frequently used application



- Bus-mounting of NEOZED disconnectors D01 with 3-phase pin busbar, which can be cut to length. Tried and tested.



- Clear and visible conductor connection that can be easily checked when using NEOZED comfort base D02. This facilitates cable entry and saves time.



- Bus-mounting of NEOZED fuse bases made of molded plastic on 3-phase busbar with fork plug, which can be cut to length. Frequently used.

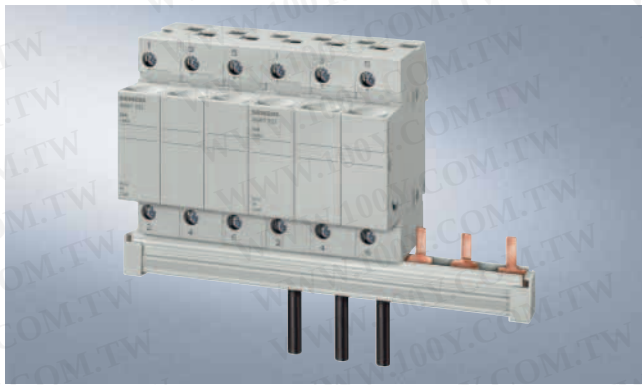


- Bus-mounting of NEOZED fuse bases made of ceramic on 3-phase busbar with fork plug, which can be cut to length. Most common application.

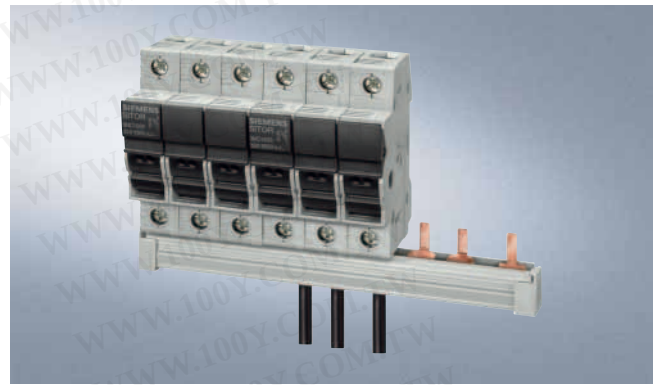
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BETA Protecting Low-Voltage Fuse Systems

Busbars for fuse systems



- Bus-mounting of cylindrical fuse holders 8 x 32 mm and 10 x 38 mm with 3-phase pin busbar, which can be cut to length.



- Bus-mounting of SITOR cylindrical fuse holders 10 x 38 mm with the same terminal connection as Class CC fuse holder with 3-phase pin busbars, which can be cut to length.

Selection and ordering data

Phases	Conductor cross-section mm ²	Load capacity up to A	Pin spacing MW	Length mm	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Busbars For MINIZED switch disconnectors D02 For NEOZED comfort bases D01/D02 Made of molded plastic 5SG1 01, 5SG5 01 For NEOZED fuse bases D01/D02 Made of ceramic Terminal version S For cylindrical fuse holders 14 x 51 mm For SITOR cylindrical fuse holders 14 x 51 mm, can be cut to length, without end caps											
1-phase	16	130	1.5	1016	A	5ST3 703		027	1	1 unit	0.190
3-phase		120	1.5	1016	A	5ST3 714		027	1	1 unit	0.430
For NEOZED fuse disconnectors D01 Can be cut to length, without end caps											
1-phase	16	120	1	1000	B	5ST2 190		027	1	1 unit	0.500
2-phase					B	5ST2 191		027	1	1 unit	0.710
3-phase					B	5ST2 192		027	1	1 unit	1.100
Can be cut to length, with 2 end caps											
1-phase	16	120	1	220	B	5ST2 186		027	1	1 unit	0.090
2-phase					B	5ST2 187		027	1	1 unit	0.160
3-phase					B	5ST2 188		027	1	1 unit	0.230
For NEOZED fuse bases D01/D02 Made of molded plastic 5SG1 .30, 5SG1 .31, 5SG5 .30 For NEOZED fuse bases D01/D02 Made of ceramic Terminal versions B and K Non-insulated											
1-phase	20	116	1.5	1000	▶	5SH5 321		016	1	1 unit	0.214
	36	168	1.5		▶	5SH5 322		016	1	1 unit	0.321
Can be cut to length, without end caps											
1-phase	24	160	1.5	1000	A	5SH5 517		016	1	1 unit	0.550

* You can order this quantity or a multiple thereof.

BETA Protecting Low-Voltage Fuse Systems

Busbars for fuse systems

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	Phases	Conductor cross-section mm ²	Load capacity up to A	Pin spacing MW	Length mm	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	3-phase	16	120	1.5		▶	5SH5 320		016	1	1 unit	0.843
For cylindrical fuse holders 8 x 32 mm and 10 x 38 mm For SITOP cylindrical fuse holders 10 x 38 mm For Class CC fuse holders For MINIZED switch disconnectors D01 Can be cut to length, without end caps												
	1-phase	16	120	1	1016	A	5ST3 701		027	1	1 unit	0.190
	2-phase	16	120	1		A	5ST3 705		027	1	1 unit	0.290
	3-phase	16	120	1	1016	▶	5ST3 710		027	1	1 unit	0.430
Cannot be cut to length, fully insulated												
	1-phase	16		1	214	▶	5ST3 700		027	1	1 unit	0.040
	2-phase			1		A	5ST3 704		027	1	1 unit	0.060
	3-phase			1		▶	5ST3 708		027	1	1 unit	0.100
End caps for busbars												
	For 1-phase 5ST3 7, 5SH5 5 busbars				156	▶	5ST3 748		027	1	10 units	0.001
	For 3-phase 5ST3 7 and 5SH5 320 busbars					▶	5ST3 750		027	1	10 units	0.001
Touch protection for free connection of pin busbars												
	Yellow, (RAL 1004)					A	5ST3 655		027	1	10 units	0.003
Terminals												
For NEOZED fuse bases D01/D02 made of ceramic For DIAZED fuse bases DII/DIII made of ceramic For cylindrical fuse holders												
	Terminal version S For conductors 2 ... 25					▶	5SH5 327		016	1	10 units	0.014
	Terminal versions B and K For conductors 6 ... 25					▶	5SH5 328		016	1	10 units	0.014
	For the infeed of fork-type or pin busbars For conductors 6 ... 35					A	5ST2 157		027	1	5 units	0.030

* You can order this quantity or a multiple thereof.

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BETA Protecting Low-Voltage Fuse Systems

Busbars for fuse systems

Phases	Conductor cross-section to	Load capacity up to	Length	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	mm ²	A	mm							
Busbars For 1-pole DIAZED fuse bases made of ceramic with terminal versions BB and BS										
	Size DII, for 19 bases 1-phase 24	80	1000	A	5SH3 500		016	1	1 unit	0.095
	Size DIII, for 25 bases 1-phase 39	120		A	5SH3 501		016	1	1 unit	0.180
Busbars For DIAZED bus-mounting bases/EZR with thread for screw adapters										
	For size DII, 42 5SF6 005 bases 1-phase 48	150	2000	C	5SH3 54		016	1	5 units	0.740
	For size DIII, 34 5SF6 205 bases 1-phase 48	150	2000	C	5SH3 55		016	1	5 units	0.740
	For size DII, 27 5SF6 07 bases 1-phase 48	150	2000	C	5SH3 56		016	1	5 units	0.740
Bus-mounting terminals For DIAZED EZR bus-mounting bases										
	Non-insulated									
	For conductors 1.5 ... 16			A	8JH4 122		046	1	10 units	0.012
	For conductors 1.5 ... 16			A	8JH4 124		046	1	10 units	0.024

BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

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Overview

LV HRC fuses are used for installation systems in non-residential, commercial and industrial buildings as well as in switchboards of power supply companies. They therefore protect essential building parts and installations.

LV HRC fuses are fuse systems designed for operation by skilled personnel. There are no constructional requirements for non-interchangeability of rated current and touch protection.

The components and auxiliary equipment are designed in such a way as to ensure the safe replacement of LV HRC fuses or isolation of systems.

LV HRC fuse links are available in the sizes 000, 00, 0, 1, 2, 3, 4 and 4a.

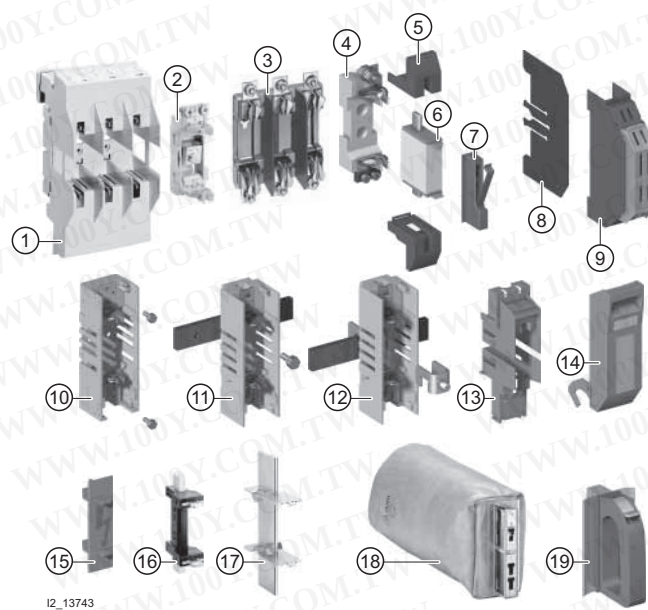
LV HRC fuse links are available in the following operational classes:

- gG for cable and line protection
- aM for the short-circuit protection of switching devices in motor circuits
- gR or aR for the protection of power semiconductors
- gS: The new gS operational class combines cable and line protection with semiconductor protection.

LV HRC fuse links of size 000 can also be used in LV HRC fuse bases, LV HRC fuse switch disconnectors, LV HRC fuse strips as well as in LV HRC in-line fuse switch disconnectors of size 00.

The fuse links 300 A, 355 A and 425 A comply with the standard but do not have the VDE mark.

LV HRC components



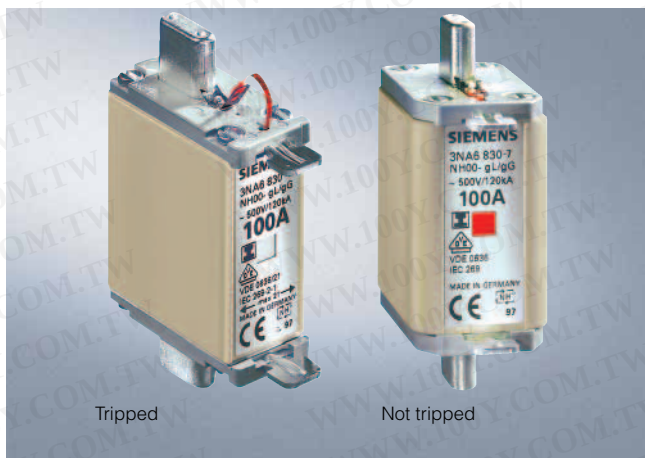
- ① LV HRC fuse base from the SR60 busbar system
- ② LV HRC fuse base for busbar mounting
- ③ LV HRC fuse base, 3P
- ④ LV HRC fuse base, 1P
- ⑤ LV HRC contact covers
- ⑥ LV HRC fuse link
- ⑦ LV HRC signal detectors
- ⑧ LV HRC partition
- ⑨ LV HRC protective cover
- ⑩ LV HRC fuse bases with slewing equipment,
- ⑪ - for screw connection on mounting plate
- ⑫ - for screw connection on busbar system
- ⑬ - for claw fixing on busbar
- ⑭ LV HRC protective cover for LV HRC fuse bases with slewing equipment
- ⑮ LV HRC slewing equipment
- ⑯ LV HRC fuse base cover
- ⑰ LV HRC isolating link with insulated grip lugs
- ⑱ LV HRC isolating link with non-insulated grip lugs
- ⑲ LV HRC fuse puller with sleeve
- ⑳ LV HRC fuse puller

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

Benefits



- LV HRC fuse links with combination alarm signal the tripping of a fuse by a clear color change from red to white. This enables fast identification and replacement of the tripped fuse links. This increases plant availability.
- The insulated grip lugs made of metal are integrated in the top and bottom covers of the fuse link in molded plastic and provide greater safety during replacement. The mark shown below indicates that the grip lugs are insulated 
- In the standard series with front indicator, the front-mounted red indicator signals the tripping of a fuse.
- LV HRC fuse links are always equipped with silver-plated contact pins. This means that they are non-corroding and have less contact resistance. This ensures the long-term operational safety of the plant.

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LV HRC fuse links

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Selection and ordering data

	Size	Mounting width	I_n	U_n	DT	Insulated grip lugs	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		mm	A	V AC/ V DC	Order No.						
	LV HRC fuse links with combination alarm										
	Operational class gG										
	000	21	10	400/--	B	3NA6 803-4		013	1	3 units	0.135
			16		B	3NA6 805-4		013	1	3 units	0.135
			20		B	3NA6 807-4		013	1	3 units	0.135
			25		B	3NA6 810-4		013	1	3 units	0.135
			32		B	3NA6 812-4		013	1	3 units	0.135
			35		B	3NA6 814-4		013	1	3 units	0.135
			40		B	3NA6 817-4		013	1	3 units	0.135
			50		B	3NA6 820-4		013	1	3 units	0.135
			63		B	3NA6 822-4		013	1	3 units	0.135
			80		B	3NA6 824-4		013	1	3 units	0.135
	100	B	3NA6 830-4		013	1	3 units	0.135			
	00	30	80	400/--	B	3NA6 824-4KK		013	1	3 units	0.200
100			B		3NA6 830-4KK		013	1	3 units	0.200	
125			B		3NA6 832-4		013	1	3 units	0.200	
160			B		3NA6 836-4		013	1	3 units	0.200	
1	30	35	400/--	B	3NA6 114-4		013	1	3 units	0.290	
		40		B	3NA6 117-4		013	1	3 units	0.290	
		50		B	3NA6 120-4		013	1	3 units	0.290	
		63		B	3NA6 122-4		013	1	3 units	0.290	
		80		B	3NA6 124-4		013	1	3 units	0.290	
		100		B	3NA6 130-4		013	1	3 units	0.290	
		125		B	3NA6 132-4		013	1	3 units	0.290	
		160		B	3NA6 136-4		013	1	3 units	0.290	
		47.2		200	B	3NA6 140-4		013	1	3 units	0.430
				224	B	3NA6 142-4		013	1	3 units	0.430
	250		B	3NA6 144-4		013	1	3 units	0.430		
	2	47.2	50	400/--	B	3NA6 220-4		013	1	3 units	0.450
			63		B	3NA6 222-4		013	1	3 units	0.450
80			B		3NA6 224-4		013	1	3 units	0.450	
100			B		3NA6 230-4		013	1	3 units	0.450	
125			B		3NA6 232-4		013	1	3 units	0.450	
160			B		3NA6 236-4		013	1	3 units	0.450	
200			B		3NA6 240-4		013	1	3 units	0.450	
224			B		3NA6 242-4		013	1	3 units	0.450	
57.8		250	B	3NA6 244-4		013	1	3 units	0.450		
		300	B	3NA6 250-4		013	1	3 units	0.650		
		315	B	3NA6 252-4		013	1	3 units	0.650		
		355	B	3NA6 254-4		013	1	3 units	0.650		
		400	B	3NA6 260-4		013	1	3 units	0.650		

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

						Non-insulated grip lugs				Insulated grip lugs						
Size		Moun- ting width	I_n	U_n	DT	Order No.	Price per PU	PG	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
			A	V AC/ V DC												
LV HRC fuse links with combination alarm																
Operational class gG																
	000	21	2 500/	B	3NA7 802			013	B	3NA6 802			013	1	3 units	0.135
			4 250	B	3NA7 804			013	B	3NA6 804			013	1	3 units	0.135
			6	B	3NA7 801			013	B	3NA6 801			013	1	3 units	0.135
			10	B	3NA7 803			013	B	3NA6 803			013	1	3 units	0.136
			16	▶	3NA7 805			013	▶	3NA6 805			013	1	3 units	0.136
			20	▶	3NA7 807			013	▶	3NA6 807			013	1	3 units	0.136
			25	▶	3NA7 810			013	▶	3NA6 810			013	1	3 units	0.600
			32	B	3NA7 812			013	B	3NA6 812			013	1	3 units	0.136
			35	▶	3NA7 814			013	▶	3NA6 814			013	1	3 units	0.440
			40	B	3NA7 817			013	B	3NA6 817			013	1	3 units	0.136
			50	▶	3NA7 820			013	▶	3NA6 820			013	1	3 units	0.128
			63	▶	3NA7 822			013	▶	3NA6 822			013	1	3 units	0.120
	00	30	80 500/	B	3NA7 824-7			013	B	3NA6 824-7			013	1	3 units	0.211
			100 250	B	3NA7 830-7			013	B	3NA6 830-7			013	1	3 units	0.211
			125	▶	3NA7 832			013	▶	3NA6 832			013	1	3 units	0.200
			160	▶	3NA7 836			013	A	3NA6 836			013	1	3 units	0.200
	1	30	16 500/	B	3NA7 105			013	B	3NA6 105			013	1	3 units	0.290
			20 440	B	3NA7 107			013	B	3NA6 107			013	1	3 units	0.290
			25	B	3NA7 110			013	B	3NA6 110			013	1	3 units	0.290
			35	B	3NA7 114			013	B	3NA6 114			013	1	3 units	0.290
			40	B	3NA7 117			013	B	3NA6 117			013	1	3 units	0.290
			50	B	3NA7 120			013	B	3NA6 120			013	1	3 units	0.290
			63	B	3NA7 122			013	B	3NA6 122			013	1	3 units	0.290
			80	B	3NA7 124			013	▶	3NA6 124			013	1	3 units	0.290
			100	B	3NA7 130			013	▶	3NA6 130			013	1	3 units	0.290
			125	▶	3NA7 132			013	▶	3NA6 132			013	1	3 units	0.290
			160	▶	3NA7 136			013	▶	3NA6 136			013	1	3 units	0.290
			47.2	▶	3NA7 140			013	▶	3NA6 140			013	1	3 units	0.440
	2	47.2	200	B	3NA7 142			013	B	3NA6 142			013	1	3 units	0.440
			224	▶	3NA7 144			013	▶	3NA6 144			013	1	3 units	0.400
			250													
			35 500/	B	3NA7 214			013	B	3NA6 214			013	1	3 units	0.450
			50 440	B	3NA7 220			013	B	3NA6 220			013	1	3 units	0.450
			63	B	3NA7 222			013	B	3NA6 222			013	1	3 units	0.450
			80	B	3NA7 224			013	B	3NA6 224			013	1	3 units	0.450
			100	B	3NA7 230			013	B	3NA6 230			013	1	3 units	0.450
			125	B	3NA7 232			013	B	3NA6 232			013	1	3 units	0.450
			160	▶	3NA7 236			013	▶	3NA6 236			013	1	3 units	0.450
			200	▶	3NA7 240			013	▶	3NA6 240			013	1	3 units	0.450
			224	B	3NA7 242			013	B	3NA6 242			013	1	3 units	0.450
			250	▶	3NA7 244			013	▶	3NA6 244			013	1	3 units	0.450
		57.8	300	—	—			B	3NA6 250			013	1	3 units	0.641	
			315	▶	3NA7 252			013	▶	3NA6 252			013	1	3 units	0.660
			355	—	—			B	3NA6 254			013	1	3 units	0.641	
			400	▶	3NA7 260			013	▶	3NA6 260			013	1	3 units	0.660

BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

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

* You can order this quantity or a multiple thereof.

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

	Sizes	Mounting width	I_n	U_n	DT	Non-insulated grip lugs	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
	mm	A	V AC/ V DC	Order No.								
	LV HRC fuse links with front indicator											
	Operational class gG											
	000	21	2	500/250	▶	3NA3 802		013	1	3 units	0.133	
			4			3NA3 804		013	1	3 units	0.133	
			6			3NA3 801		013	1	3 units	0.133	
			10			3NA3 803		013	1	3 units	0.133	
			16			3NA3 805		013	1	3 units	0.133	
			20			3NA3 807		013	1	3 units	0.133	
			25			3NA3 810		013	1	3 units	0.133	
			32			3NA3 812		013	1	3 units	0.133	
			35			3NA3 814		013	1	3 units	0.133	
			40			3NA3 817		013	1	3 units	0.133	
			50			3NA3 820		013	1	3 units	0.133	
			63			3NA3 822		013	1	3 units	0.133	
			80			3NA3 824		013	1	3 units	0.133	
			100			3NA3 830		013	1	3 units	0.133	
125			400/--			A	3NY1 822		013	1	3 units	0.130
160	B	3NY1 824			013	1	3 units	0.129				
	00	30	35	500/250	B	3NA3 814-7		013	1	3 units	0.200	
			50		B	3NA3 820-7		013	1	3 units	0.200	
			63		B	3NA3 822-7		013	1	3 units	0.200	
			80		B	3NA3 824-7		013	1	3 units	0.200	
			100		B	3NA3 830-7		013	1	3 units	0.200	
			125		▶	3NA3 832		013	1	3 units	0.217	
			160		▶	3NA3 836		013	1	3 units	0.217	
	0	30	6	500/440	B	3NA3 001		013	1	3 units	0.340	
			10		B	3NA3 003		013	1	3 units	0.340	
			16		B	3NA3 005		013	1	3 units	0.340	
			20		B	3NA3 007		013	1	3 units	0.340	
			25		B	3NA3 010		013	1	3 units	0.340	
			32		B	3NA3 012		013	1	3 units	0.340	
			35		B	3NA3 014		013	1	3 units	0.340	
			40		B	3NA3 017		013	1	3 units	0.340	
			50		B	3NA3 020		013	1	3 units	0.340	
			63		A	3NA3 022		013	1	3 units	0.340	
			80		B	3NA3 024		013	1	3 units	0.340	
			100		A	3NA3 030		013	1	3 units	0.340	
			125		A	3NA3 032		013	1	3 units	0.340	
			160		A	3NA3 036		013	1	3 units	0.340	
					1	30	16	500/440	B	3NA3 105		013
20	B	3NA3 107					013		1	3 units	0.290	
25	B	3NA3 110					013		1	3 units	0.290	
35	B	3NA3 114					013		1	3 units	0.300	
40	B	3NA3 117					013		1	3 units	0.300	
50	B	3NA3 120					013		1	3 units	0.300	
63	▶	3NA3 122					013		1	3 units	0.300	
80	▶	3NA3 124					013		1	3 units	0.300	
100	▶	3NA3 130					013		1	3 units	0.300	
125	▶	3NA3 132					013		1	3 units	0.300	
160	▶	3NA3 136					013		1	3 units	0.300	
47.2	200	▶		3NA3 140					013	1	3 units	0.440
	224	A		3NA3 142					013	1	3 units	0.440
	250	▶		3NA3 144					013	1	3 units	0.440

* You can order this quantity or a multiple thereof.

BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

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勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Sizes	Mounting width mm	I_n A	U_n V AC/ V DC	DT	Non-insulated grip lugs	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
					Order No.					
	2	47.2	500/440	B	3NA3 214		013	1	3 units	0.453
					3NA3 220		013	1	3 units	0.453
					3NA3 222		013	1	3 units	0.453
				A	3NA3 224		013	1	3 units	0.453
					3NA3 230		013	1	3 units	0.453
					3NA3 232		013	1	3 units	0.453
				▶	3NA3 236		013	1	3 units	0.453
					3NA3 240		013	1	3 units	0.453
					3NA3 242		013	1	3 units	0.453
				▶	3NA3 244		013	1	3 units	0.453
					3NA3 250		013	1	3 units	0.647
					3NA3 252		013	1	3 units	0.647
				▶	3NA3 254		013	1	3 units	0.647
					3NA3 260		013	1	3 units	0.647
				57.8	B	3NA3 340	013	1	3 units	0.647
						3NA3 342	013	1	3 units	0.640
						3NA3 344	013	1	3 units	0.647
					A	3NA3 350	013	1	3 units	0.647
						3NA3 352	013	1	3 units	0.647
						3NA3 354	013	1	3 units	0.647
					▶	3NA3 360	013	1	3 units	0.647
						3NA3 362	013	1	3 units	1.000
						3NA3 365	013	1	3 units	1.000
						3NA3 372	013	1	3 units	1.000
	3	57.8	500/440	B	3NA3 340		013	1	3 units	0.647
					3NA3 342		013	1	3 units	0.640
					3NA3 344		013	1	3 units	0.647
				A	3NA3 350		013	1	3 units	0.647
					3NA3 352		013	1	3 units	0.647
	4 (IEC design)	101.8	500/440	B	3NA3 472		013	1	1 unit	2.500
					3NA3 475		013	1	1 unit	2.500
					3NA3 480		013	1	1 unit	2.500
				A	3NA3 482		013	1	1 unit	2.500
	4a	101.8	500/440	B	3NA3 665		013	1	1 unit	2.700
					3NA3 672		013	1	1 unit	2.700
					3NA3 675		013	1	1 unit	2.700
				A	3NA3 680		013	1	1 unit	2.840
					3NA3 682		013	1	1 unit	2.840

Can only be used for 3NH3 530 LV HRC fuse base

Can only be used for 3NH7 520 LV HRC fuse base

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

Sizes	Mounting width mm	I_n A	U_n V AC/ V DC	DT	Non-insulated grip lugs	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
					Order No.					
	000	21	690/250	▶	3NA3 802-6		013	1	3 units	0.135
					3NA3 804-6		013	1	3 units	0.135
					3NA3 801-6		013	1	3 units	0.135
					3NA3 803-6		013	1	3 units	0.135
					3NA3 805-6		013	1	3 units	0.135
					3NA3 807-6		013	1	3 units	0.135
					3NA3 810-6		013	1	3 units	0.135
					3NA3 812-6		013	1	3 units	0.135
					3NA3 814-6		013	1	3 units	0.135
	00	30	690/250	B	3NA3 817-6		013	1	3 units	0.200
					3NA3 820-6		013	1	3 units	0.200
					3NA3 822-6		013	1	3 units	0.200
					3NA3 824-6		013	1	3 units	0.200
					3NA3 830-6		013	1	3 units	0.200
	1	30	690/440	B	3NA3 120-6		013	1	3 units	0.290
					3NA3 122-6		013	1	3 units	0.290
					3NA3 124-6		013	1	3 units	0.290
					3NA3 130-6		013	1	3 units	0.290
					3NA3 132-6		013	1	3 units	0.290
					3NA3 136-6		013	1	3 units	0.290
					3NA3 140-6		013	1	3 units	0.426
	2	47.2	690/440	B	3NA3 224-6		013	1	3 units	0.426
					3NA3 230-6		013	1	3 units	0.426
					3NA3 232-6		013	1	3 units	0.426
					3NA3 236-6		013	1	3 units	0.426
					3NA3 240-6		013	1	3 units	0.426
					3NA3 242-6		013	1	3 units	0.660
					3NA3 244-6		013	1	3 units	0.680
					3NA3 250-6		013	1	3 units	0.660
					3NA3 252-6		013	1	3 units	0.680
	3	57.8	690/440	B	3NA3 344-6		013	1	3 units	0.660
					3NA3 352-6		013	1	3 units	0.660
					3NA3 354-6		013	1	3 units	1.000
					3NA3 360-6		013	1	3 units	1.000
					3NA3 362-6		013	1	3 units	1.000
					3NA3 365-6		013	1	3 units	1.000

* You can order this quantity or a multiple thereof.

BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse links

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

* You can order this quantity or a multiple thereof.

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BETA Protecting Low-Voltage Fuse Systems

LV HRC signal detectors

Overview

LV HRC signal detectors are used for remotely indicating that the LV HRC fuse links have been tripped. 3 different solutions are available:

- 3NX1 021 signal detectors with signal detector link 3
- 3NX1 024 signal detector top
- 5TT3 170 fuse monitors.

The LV HRC signal detectors with signal detector link support monitoring of LV HRC fuse links with non-insulated grip lugs of sizes 000 to 4 at 10 A or more.

The signal detector link is connected in parallel to the LV HRC fuse link. In the event of a fault, the LV HRC fuse links are released

simultaneously with the LV HRC fuse signaling link. A trip pin switches a floating microswitch.

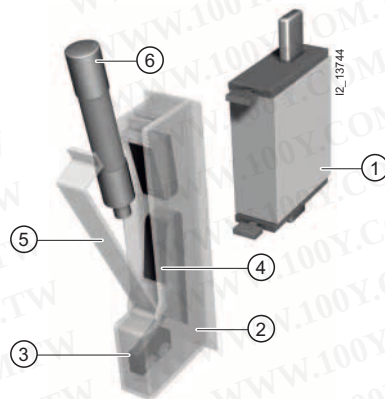
The signal detector top can be used with LV HRC fuse links, sizes 000, 00, 1 and 2, which are equipped with non-insulated grip lugs and have a front indicator or combination alarm. It is simply plugged into the grip lugs.

If a fuse is tripped, the front indicator springs open and switches a floating microswitch. This solution should not be used for safety-relevant plants. For this purpose, we recommend our electronic fuse monitors.

Benefits

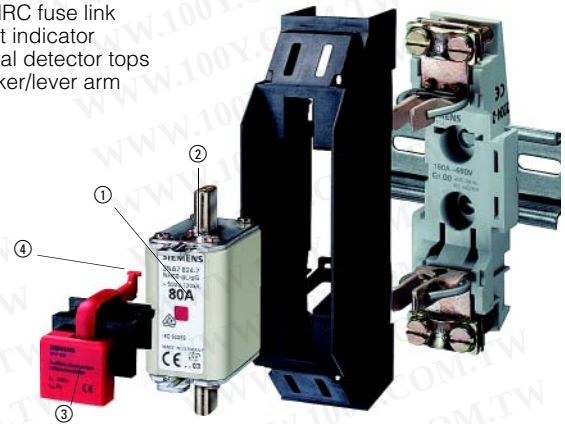
LV HRC signal detectors reliably indicate when a fuse has tripped.

- ① LV HRC fuse link
- ② Signal detector
- ③ Microswitch
- ④ Spring contact
- ⑤ Hinged lid
- ⑥ Signal detector links



Tripped fuses are quickly located. This saves time and increases plant availability.

- ① LV HRC fuse link
- ② Front indicator
- ③ Signal detector tops
- ④ Rocker/lever arm



Selection and ordering data

	Sizes	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	000 to 4	A	3NX1 021		014	1	1 unit	0.036
LV HRC signal detectors Only for SIEMENS 3NA3, 3NA7, 3ND 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 termination 2.3 mm								
	000 ... 4	A	3NX1 022		014	1	3 units	0.015
		C	3NX1 023		014	1	3 units	0.015
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, 00, 1, 2	▶	3NX1 024		014	1	1 unit	0.010
Signal detector tops Only for SIEMENS 3NA3, 3NA7, 3ND LV HRC fuse links with non-insulated grip lugs • Rated voltage up to 690 V AC/600 V DC • Contact: microswitch 230 V AC, 5 A, 1 CO • Connection: flat termination 2.3 mm								

BETA Protecting Low-Voltage Fuse Systems

LV HRC signal detectors

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U_e	I_n	U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
V AC	A	V								
230	4	3x 380 ... 415	2	▶	5TT3 170		027	1	1 unit	0.150



Fuse monitors

For all low-voltage fuse systems.
 Can be used in asymmetric systems afflicted
 with harmonics and regenerative feedback
 motors. Alarm also for disconnected loads.

For further information, please refer to Catalog ET B1, chapter
 "Monitoring of Electrical Values".

Overview

Terminals for all applications

Terminals are as different as the requirements of individual systems.



Flat terminals with screws are suitable for connecting busbars or cable lugs. They have a torsion-proof screw connection with shim, spring washer and nut. When tightening the nut, always ensure compliance with the specified torque due to the considerable leverage effect.

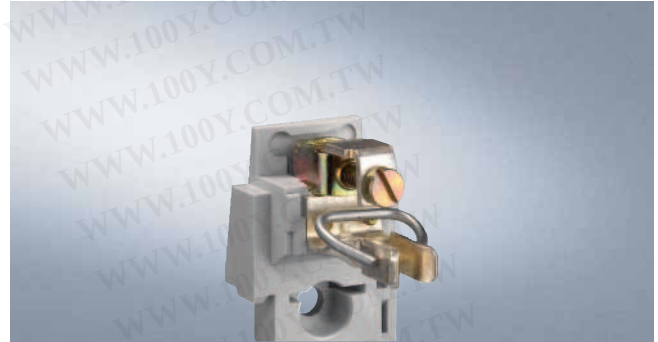
The double busbar terminal differs from the flat connection in that it supports connection of two busbars, one on the top and one at the bottom of the flat connection.



In the case of the flat terminal with nut, connection of the nut is torsion-proof. When tightening the nut, the torque must be observed because of the considerable leverage effect.



The plug-in terminal is equipped for connecting two conductors.



The modern box terminal ensures efficient and reliable connection to the conductors. They support connection of conductors with or without end sleeves.



Up to three conductors can be clamped to the terminal strip.



One conductor can be clamped to the saddle-type terminal.

BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse bases

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Benefits



- The silver-plated Lyra contact provides a large contact area for the contact pin of the LV HRC fuse link. This improves heat transmission and lowers the temperature. It also minimizes ageing of the fuse link in the maximum load range, in particular when using SITOR fuses
- The large contact area also facilitates replacement of LV HRC fuse links
- The spring washer tensioning the contact is mechanically galvanized. This will prevent hydrogen embrittlement. The contact is resistant to aging and there will be no dreaded annealing of contacts, which considerably improves operating safety.

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse bases

Selection and ordering data

Sizes	I_n	Version	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
LV HRC fuse bases									
Made of molded plastic, for standard rail mounting or screw fixing									
	000/00								
	160	1P With flat terminals, screw With saddle-type terminals	▶	3NH3 051		014	1	1 unit	0.119
			▶	3NH3 052		014	1	1 unit	0.114
	125	With box terminals, up to 50 mm ²	▶	3NH3 053		014	1	1 unit	0.109
	Made of ceramic for screw fixing								
	160	1P With flat terminals, screw With plug-in terminals With saddle-type terminals	▶ B ▶	3NH3 030 3NH3 031 3NH3 032		014 014 014	1 1 1	3 units 3 units 3 units	0.235 0.230 0.266
	160	With flat terminals and terminal strip With flat terminals, nut With flat and saddle-type terminals	B B B	3NH3 035 3NH3 038 3NH3 050		014 014 014	1 1 1	3 units 3 units 3 units	0.230 0.207 0.227
	Made of molded plastic, for standard rail mounting and screw fixing								
	160	3P With flat terminals With plug-in terminals With saddle-type terminals With flat terminals and terminal strip	▶ B B B	3NH4 030 3NH4 031 3NH4 032 3NH4 035		014 014 014 014	1 1 1 1	1 unit 1 unit 1 unit 1 unit	0.700 0.800 0.800 0.750
	0								
	160	1P With flat terminals With plug-in terminals	A B	3NH3 120 3NH3 122		014 014	1 1	3 units 3 units	0.460 0.460
	1								
	250	1P With flat terminals With double busbar terminals	▶ B	3NH3 230 3NH3 220		014 014	1 1	3 units 3 units	0.789 0.789
	250	3P With flat terminals	A	3NH4 230		014	1	1 unit	2.100
	2								
	400	1P With flat terminals With double busbar terminals	▶ A	3NH3 330 3NH3 320		014 014	1 1	1 unit 1 unit	0.843 1.000
	3								
	630	1P With flat terminals With double busbar terminals	▶ A	3NH3 430 3NH3 420		014 014	1 1	1 unit 1 unit	1.100 1.100

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LV HRC fuse bases

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	Size	I_n	Version	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	4 (IEC design)	1250	1P With flat terminals	A	3NH3 530		014	1	1 unit	3.000
LV HRC bus-mounting bases for busbars 12 mm x 5 mm to 12 mm x 10 mm, busbar spacing 40 mm										
	000/00	160	1P With saddle-type terminals at top With saddle-type terminals at bottom Terminal strip at top	B B B	3NH3 036 3NH3 037 3NH3 048		014 014 014	1 1 1	1 unit 1 unit 1 unit	0.150 0.150 0.150
	000/00	80	3P, in tandem design 3 outgoing feeders each at top and bottom with saddle-type terminals With 4 barriers With 2 non-interrupted barriers	B B	3NH4 037 3NH4 045		014 014	1 1	1 unit 1 unit	0.800 0.800
LV HRC fuse bases with slewing equipment With flat terminal and additional saddle-type terminals (included)										
	000/00	160	1P With screw fixing for mounting plate With claw fixing for non-perforated busbar With screw fixing for perforated busbar	A B B	3NH7 030 3NH7 031 3NH7 032		014 014 014	1 1 1	1 unit 1 unit 1 unit	1.000 1.000 1.000
	1	250	With screw fixing for mounting plate With claw fixing for non-perforated busbar With screw fixing for perforated busbar	A B B	3NH7 230 3NH7 231 3NH7 232		014 014 014	1 1 1	1 unit 1 unit 1 unit	2.500 2.500 2.500
Can also be used for fuse links of size 2										
	3	630	With screw fixing for mounting plate With claw fixing for non-perforated busbar With screw fixing for perforated busbar, can be used as disconnecter	B B B	3NH7 330 3NH7 331 3NH7 332		014 014 014	1 1 1	1 unit 1 unit 1 unit	4.800 4.800 4.800

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse bases

	Sizes	I_n	Version	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	4a	1250	With screw fixing for mounting plate	A	3NH7 520		014	1	1 unit	5.200
	LV HRC contact covers for LV HRC fuse bases									
	000/00	Touch protection for contact pieces			▶	3NX3 105	014	1	2 units	0.013
	0				B	3NX3 114	014	1	2 units	0.010
	1				▶	3NX3 106	014	1	2 units	0.027
	2				▶	3NX3 107	014	1	2 units	0.031
	3				▶	3NX3 108	014	1	2 units	0.038
	LV HRC partitions for LV HRC fuse bases									
	As intermediate phase and end barrier									
	000/00	Type								
		3NH3 0/3NH4 0			▶	3NX2 023	014	1	2 units	0.025
	0	3NH3 1			B	3NX2 030	014	1	2 units	0.050
	1	3NH3 2			▶	3NX2 024	014	1	2 units	0.053
	2	3NH3 3			▶	3NX2 025	014	1	2 units	0.066
	3	3NH3 4			▶	3NX2 026	014	1	2 units	0.101
	LV HRC protective covers IP2X									
	For LV HRC fuse bases									
	000/00	1 and 3P			B	3NX3 115	014	1	10 units	0.039
	LV HRC covers									
	For plugging into IP2X LV HRC protective covers				B	3NX3 116	014	1	10 units	0.014
	LV HRC contact covers for LV HRC bus-mounting bases									
	Touch protection for contact pieces									
		Outgoing terminal			▶	3NX3 105	014	1	2 units	0.013
		Incoming terminal			B	3NX3 113	014	1	2 units	0.006
	LV HRC partitions for 3NH3 0 LV HRC bus-mounting bases									
	As intermediate partition				C	3NX2 027	014	1	2 units	0.017
	As end barrier				C	3NX2 028	014	1	2 units	0.020

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse bases

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Sizes	Version	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
	Non-interrupted barriers								
	For 3NH4 0 LV HRC bus-mounting bases	C	3NX2 031		014	1	2 units	0.050	
	Fuse pullers								
	000 to 4	For LV HRC fuse links Without sleeve	▶	3NX1 013		014	1	1 unit	0.280
		With sleeve	▶	3NX1 014		014	1	1 unit	0.480
	Isolating links for LV HRC fuse bases and fuse switch disconnectors								
	000/00 0 1 2 3	With insulated grip lugs Silver-plated	▶	3NG1 002		014	1	3 units	0.080
			C	3NG1 102		014	1	1 unit	0.110
			▶	3NG1 202		014	1	1 unit	0.170
			▶	3NG1 302		014	1	1 unit	0.240
			▶	3NG1 402		014	1	1 unit	0.290
	4 4a	With non-insulated grip lugs Tinned	B	3NG1 503		014	1	6 units	0.708
		Nickel-plated	B	3NG1 505		014	1	1 unit	0.730
		Fuse-base covers							
		000/00 1, 2, 3	For LV HRC fuse bases, red With yellow inscription (German) "Power supply isolating point"	C	3NX1 003		014	1	3 units
			C	3NX1 004		014	1	3 units	0.100

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse switch disconnectors

Overview

SENTRON 3NP4 and 3NP5 fuse switch disconnectors are switching devices for the occasional manual switching/isolating of loads and distribution boards. They are able to switch on, lead and switch off the specified rated current (including a specific overload).

With the SENTRON 3NP4 and 3NP5 fuse switch disconnectors, all poles of downstream electric loads can be safely disconnected from the system under load.

The SENTRON 3NP4 and 3NP5 fuse switch disconnectors are ideal for surface mounting and installation on and in distribution boards (e.g. ALPHA, SIKUS), meter cabinets (e.g. ALPHA 400-ZS) and molded-plastic distribution systems, such as 8HP.

The ability to mount them on a range of different busbar systems allows their very diverse implementation in control cabinet and control engineering.

The sizes SENTRON 3NP4 LV HRC 0001 and LV HRC 00 can be snapped onto 35 mm standard mounting rails and are ideal for combining with other switching devices e.g. in capacitor modules for p.f. compensation.

The SENTRON fuse switch disconnectors 3NP4 and 3NP5 are used in conjunction with SITOR semiconductor fuses for the effective protection of frequency converters and soft starters (see section "SITOR semiconductor fuses").

Benefits

- The SENTRON 3NP4 and 3NP5 fuse switch disconnectors comprise a base and a fuse carrier with view and measuring window, which can be removed without tools. The removal and replacement of fuse links can also be carried out without tools. This considerably facilitates installation
- The three conducting paths in the base and the fuse links in the fuse carrier are separated by partitions that overlap when opening and closing the device. This type of intrinsic protection is called "complete compartmentalization" and effectively prevents phase arcing.
- SENTRON 3NP5 fuse switch disconnectors are also equipped with locating springs, which are fitted to the side of the base. These enable the "high speed closing" of devices, regardless of the actuation speed of the operator.
- The SENTRON 3NP4 and 3NP5 fuse switch disconnectors are used with LV HRC fuses of sizes LV HRC 000 to LV HRC 3 according to IEC 60269-2-1 and DIN VDE 43620. This supports additional applications.

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Selection and ordering data

	Rated uninter- rupted current	Connection type (double-ended)	For LV HRC fuse links according to DIN 43620 ¹⁾		For isolating links ²⁾	DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws					
	I_u	Connection	For conductor cross-section				Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	A		mm ²	Size	Size							
  	Up to 160 A, also clip-on for standard mounting rails											
	160 ³⁾	Box terminals	1.5 ... 50	000 ⁴⁾	00	▶	3NP40 10-0CH01		103	1	1 unit	0.512
	160	Flat terminals	up to 2 × 70 (M8)	00 a. 000	00	▶	3NP40 70-0CA01		103	1	1 unit	0.749
		Box terminals	2.5 ... 70 or 2 × 2.5 ... 16			▶	3NP40 70-0CH01		103	1	1 unit	0.800
	250	Flat terminals	up to 150 (M10)	1 and 0	1 and 0	▶	3NP42 70-0CA01		103	1	1 unit	2.436
	400		up to 240 (M10)	2 and 1	2 and 1	▶	3NP43 70-0CA01		103	1	1 unit	3.614
	630		up to 2 × 240 (M12)	3 and 2	3 and 2	▶	3NP44 70-0CA01		103	1	1 unit	4.984
	For busbar systems 40 mm⁵⁾											
	With deep adapter for installation in ALPHA meter cabinets and ALPHA distribution boards, for busbars with a width of 12 mm or 15 mm and thickness of 5 mm or 10 mm ⁵⁾											
		160 ³⁾	Box terminals	1.5 ... 50								
			Connection, top	000 ⁴⁾	00	A	3NP40 15-0CK01		103	1	1 unit	0.952
			Connection, bottom			A	3NP40 15-0CJ01		103	1	1 unit	0.970
160		Flat terminals	up to 2 × 70 (M8)									
			Connection, top	00 a. 000	00	A	3NP40 75-0CE01		103	1	1 unit	1.210
			Connection, bottom			A	3NP40 75-0CF01		103	1	1 unit	1.244
		Box terminals	2.5 ... 70 or 2 × 2.5 ... 16									
			Connection, top	00 a. 000	00	A	3NP40 75-0CK01		103	1	1 unit	1.290
		Connection, bottom			A	3NP40 75-0CJ01		103	1	1 unit	1.274	

¹⁾ See LV HRC Fuse Links.

²⁾ Use silver-plated isolating links.

³⁾ 125/160 A only possible with 3NY1 822 (125 A) and 3NY1 824 (160 A) 21 mm LV HRC fuse links, see page 19/106.

⁴⁾ Corresponds to LV HRC fuse link size 00 with maximum width 21 mm (according to IEC 60269-2-1 and DIN 43620).

⁵⁾ For mounting on 5 mm thick busbars, a bar thickness compensation is required for 3NP42 and 3NP43, see Accessories. 3NP44 can only be mounted on busbars with a thickness of 10 mm!

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse switch disconnectors

Rated uninter- rupted current I_u	Connection type (double-ended) Connection	For LV HRC fuse links according to DIN 43620 ¹⁾ For conductor cross-section	For isolating links ²⁾ DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A	mm ²	Size	Size						
With flat adapter acc. to DIN 43620 -6, for ALPHA distribution boards									
160 ³⁾	Box terminals	1.5 ... 50							
		Connection, top	000 ⁴⁾	00	A	3NP40 15-1CK01	103	1	1 unit 0.892
		Connection, bottom			B	3NP40 15-1CJ01	103	1	1 unit 0.888
160	Flat terminals	up to 2 × 70 (M8)							
		Connection, top	00 a. 000	00 a. 000	A	3NP40 75-1CE01	103	1	1 unit 1.186
		Connection, bottom			A	3NP40 75-1CF01	103	1	1 unit 1.189
	Box terminals	2.5 ... 70 or 2 × 2.5 ... 16							
		Connection, top	00 a. 000	00 a. 000	A	3NP40 75-1CK01	103	1	1 unit 1.261
		Connection, bottom			A	3NP40 75-1CJ01	103	1	1 unit 1.213
250	Flat terminals	up to 240 (M10)							
		Connection, top or bottom	1 and 0	1 and 0	A	3NP42 75-1CG01	103	1	1 unit 3.719
160	Flat terminals	up to 2 × 70 (M8)							
		Connection, top	00 a. 000	00 a. 000	B	3NP40 75-1FE01	103	1	1 unit 1.616
		Connection, bottom			B	3NP40 75-1FF01	103	1	1 unit 1.620
	Box terminals	2.5 ... 70 or 2 × 2.5 ... 16							
		Connection, top	00 a. 000	00 a. 000	B	3NP40 75-1FK01	103	1	1 unit 1.717
		Connection, bottom			B	3NP40 75-1FJ01	103	1	1 unit 1.630
250	Flat terminals	up to 240 (M10)							
		Connection, top or bottom	1 and 0	1 and 0	A	3NP42 75-1FG01	103	1	1 unit 4.210

¹⁾ See LV HRC Fuse Links.

²⁾ Use silver-plated isolating links.

³⁾ 125/160 A only possible with 3NY1 822 (125 A) and 3NY1 824 (160 A)
21 mm LV HRC fuse links, see page 19/106.

⁴⁾ Corresponds to LV HRC fuse link size 00 with maximum width 21 mm
(according to IEC 60269-2-1 and DIN 43620).



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LV HRC fuse switch disconnectors

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Rated uninter- rupted current I_u	Connection type (double-ended) Connection	For LV HRC fuse links according to DIN 43620 ¹⁾ For conduc- tor cross- section mm ²	For isolating links ²⁾ Size	DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A										
For busbars, 60 mm, as flat, T and I profiles, as well as on Rittal PLC systems with a width of 12 to 30 mm and a thickness of 5 mm or 10 mm⁴⁾										
	Box terminals	1.5 ... 50 Connection, top Connection, bottom	000 ³⁾	00	A	3NP40 16-1CK01		103	1	1 unit 0.916
						3NP40 16-1CJ01		103	1	1 unit 0.950
	Flat terminals	Up to 2 x 70 (M8) Connection, top Connection, bottom	00 a. 000	00	A	3NP40 76-1CE01		103	1	1 unit 1.203
						3NP40 76-1CF01		103	1	1 unit 1.201
	Box terminals ³⁾	2.5 ... 70 or 2 x 2.5 ... 16 Connection, top Connection, bottom	00 a. 000	00	B	3NP40 76-1CK01		103	1	1 unit 1.295
						3NP40 76-1CJ01		103	1	1 unit 1.249
250	Flat terminals	Up to 150 (M10) Connection, top or bottom	1 and 0	1 and 0	▶	3NP42 76-1CG01		103	1	1 unit 3.713
400	Flat terminals	Up to 240 (M10) Connection, top or bottom	2 and 1	2 and 1	▶	3NP43 76-1CG01		103	1	1 unit 5.440
630	Flat terminals	Up to 2 x 240 (M12) Connection, top or bottom	3 and 2	3 and 2	▶	3NP44 76-1CG01		103	1	1 unit 7.688
with fuse monitoring by SIRIUS circuit-breaker⁵⁾⁶⁾										
160	Flat terminals	Up to 2 x 70 (M8) Connection, top Connection, bottom	00 a. 000	00	B	3NP40 76-1FE01		103	1	1 unit 1.670
					A	3NP40 76-1FF01		103	1	1 unit 1.890
	Box terminals	2.5 ... 70 or 2 x 2.5 ... 16 Connection, top Connection, bottom	00 a. 000	00	B	3NP40 76-1FK01		103	1	1 unit 1.755
					B	3NP40 76-1FJ01		103	1	1 unit 1.915
250	Flat terminals	Up to 150 (M10) Connection, top or bottom	1 and 0	1 and 0	A	3NP42 76-1FG01		103	1	1 unit 4.171
400	Flat terminals	Up to 240 (M10) Connection, top or bottom	2 and 1	2 and 1	A	3NP43 76-1FG01		103	1	1 unit 5.845
630	Flat terminals	Up to 2 x 240 (M12) Connection, top or bottom	3 and 2	3 and 2	A	3NP44 76-1FG01		103	1	1 unit 8.235

¹⁾ See LV HRC Fuse Links.

²⁾ Use silver-plated isolating links.

³⁾ No further cover required for 3NP40 with box terminal.

⁴⁾ For mounting on 5 mm thick busbars, a bar thickness compensation is required for 3NP42 and 3NP43, see page 19/106.
3NP44 can only be mounted on busbars with a thickness of 10 mm!

⁵⁾ SIRIUS circuit-breaker with auxiliary switch 1 NO + 1 NC as standard.
3NP40 7 also available with auxiliary switch 2 NO or 2 NC on request.

⁶⁾ For 3NP40 7 with output socket for auxiliary switch, the signal lead must be ordered separately, see page 19/106. In the case of 3NP42 to 3NP44, the auxiliary switch must be connected over a 2.8 mm x 0.5 mm flat connection according to DIN 46244-A.

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse switch disconnectors

	Rated uninter- rupted current	Connection type (double-ended)	For LV HRC fuse links according to DIN 43620 ¹⁾		For isolating links ²⁾	Degree of protection IP00, without fuse links, without isolating links, with terminal screws	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
	I_u	Connection	For conductor cross-section mm ²		DT	Order No.					Price per PU
	A			Size	Size						
With fuse monitoring by SIRIUS motor starter protectors/circuit breakers^{3) 4)}											
For installation on standard mounting rail and screw connection											
160	Flat terminals	Up to 2 × 70 (M8)	00 a. 000	00	A	3NP40 70-0FA01	103	1	1 unit	1.276	
	Box terminals	2.5 ... 70 or 2 × 2.5 ... 16			A	3NP40 70-0FH01	103	1	1 unit	1.350	
250	Flat terminals	Up to 150 (M10)	1 and 0	1 and 0	A	3NP42 70-0FA01	103	1	1 unit	2.940	
400	Flat terminals	Up to 240 (M10)	2 and 1	2 and 1	A	3NP43 70-0FA01	103	1	1 unit	4.174	
630	Flat terminals	Up to 2 × 240 (M12)	3 and 2	3 and 2	A	3NP44 70-0FA01	103	1	1 unit	5.495	



¹⁾ See LV HRC Fuse Links.

²⁾ Use silver-plated isolating links.

³⁾ SIRIUS motor starter protector/circuit breaker with auxiliary switch 1 NO + 1 NC as standard. 3NP40 7 also available with auxiliary switch 2 NOs or 2 NCs on request.

⁴⁾ For 3NP40 7 with output socket for auxiliary switch, the signal lead must be ordered separately, see page 19/106. In the case of 3NP41 to 3NP44, the auxiliary switch must be connected over a 2.8 mm × 0.5 mm flat connector according to DIN 46244-A.

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Rated uninter- rupted current I_u	Connection type (double-ended)	For LV HRC fuse links according to DIN 43620 ¹⁾	For isolat- ing links ²⁾	AS on switch discon- nector	DT	Degree of protection IP00, without fuse links, without isolating links, with terminal screws	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A	Conne- ction	For conductor cross-section mm ²	Size	Size								
For surface mounting and installation on and in distribution boards Completely compartmentalized, with high speed closing feature												
	160	Flat terminals 3)	2.5 ... 150 ⁴⁾	00 a. 000	00	without ⁵⁾ ▶ 1 NO + B 1 NC	3NP50 60-0CA00 3NP50 60-0CA10		103	1	1 unit	1.608
		Clamp terminals	1-wire 2.5 ... 50 or 2 conductors 1 × 2.5 ... 50 1 × 2.5 ... 35	00 a. 000	00	without ⁵⁾ A 1 NO + B 1 NC	3NP50 60-0CB00 3NP50 60-0CB10		103 103	1 1	1 unit 1 unit	1.739 1.748
	250	Flat terminals	6 ... 150 ⁴⁾	1 and 0	1	without ▶ 1 NO + A 1 NC	3NP52 60-0CA00 3NP52 60-0CA10		103 103	1 1	1 unit 1 unit	5.475 5.491
		Clamp terminals	35 ... 120	1 and 0	1	without C 1 NO + B 1 NC	3NP52 60-0CB00 3NP52 60-0CB10		103 103	1 1	1 unit 1 unit	5.605 5.814
	400	Flat terminals	6 ... 240 ⁴⁾	2 and 1	2	without ▶ 1 NO + A 1 NC	3NP53 60-0CA00 3NP53 60-0CA10		103 103	1 1	1 unit 1 unit	6.532 6.551
	630	Flat terminals	6 ... 2 × 240 ⁴⁾	3 and 2	3	without ▶ 1 NO + B 1 NC	3NP54 60-0CA00 3NP54 60-0CA10		103 103	1 1	1 unit 1 unit	7.945 7.958
For 40 mm busbar systems Completely compartmentalized, with high speed closing												
Busbar width: 12 mm and 5 mm or 10 mm thickness												
	160	Flat terminals	2.5 ... 150 ⁴⁾ bottom connection	00 a. 000		without C 1 NO + B 1 NC	3NP50 65-1CF00 3NP50 65-1CF10		103 103	1 1	1 unit 1 unit	2.380 2.370
		Clamp terminals	1-wire 2.5 ... 50 or 2 conductors 1 × 2.5 ... 50 1 × 2.5 ... 35 bottom connection	00 a. 000		without B 1 NO + B 1 NC	3NP50 65-1CG00 3NP50 65-1CG10		103 103	1 1	1 unit 1 unit	2.433 2.437
	For 60 mm busbar systems Surface mounting and installation completely compartmentalized, with high speed closing Use switch version "Surface mounting and installation" and busbar adapter, see page 19/111.											

¹⁾ See LV HRC Fuse Links.

²⁾ Use silver-plated isolating links.

³⁾ For 3NP50 60 with flat connectors, the relevant 3NY1 106 cable lug covers must be used for the purpose of protection against accidental contact according to DIN VDE 0106-100 (see page 19/110).

⁴⁾ According to DIN 46234 or 16 mm² ... 95 mm² acc. to DIN 46235 (use M10 cable lugs if required).

⁵⁾ If auxiliary switch is retrofitted, additional drill holes are required on the switch.

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LV HRC fuse switch disconnectors

Rated uninter- rupted current	Connection type (double-ended)		For LV HRC fuse links according to DIN 43620 ¹⁾	Auxiliary switches (AS)			Degree of protection IP00, without fuse links, without isolating links, with terminal screws						
I_u	Connec- tion	For conductor cross-section		Motor starter protec- tors/ Circuit breakers	Switch discon- nectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx	
A		mm ²	Size									kg	
Surface mounting and installation Completely compartmentalized, with high speed closing feature and fuse monitoring by SIRIUS motor starter protectors/circuit breakers²⁾ With plug-in connection of the auxiliary switch connecting cable (length approx. 1 m) to the motor starter protector/circuit breakers													
160	Flat terminals 3)	2.5 ... 150 ⁴⁾	00 a. 000	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	▶ B	3NP50 60-0EA86		103	1	1 unit	2.484	
							3NP50 60-0EA26		103	1	1 unit	2.550	
	Clamp terminals	1 conductor 2.5 ... 50 2 conductor 1x 2.5 ... 50 1x 2.5 ... 35	00 a. 000	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	B B	3NP50 60-0EB86		103	1	1 unit	2.616	
							3NP50 60-0EB26		103	1	1 unit	2.650	
	250	Flat terminals	6 ... 150 ⁵⁾	1 and 0	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	▶ B	3NP52 60-0EA86		103	1	1 unit	6.014
								3NP52 60-0EA26		103	1	1 unit	6.867
400	Clamp terminals	35 ... 120	1 and 0	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	B B	3NP52 60-0EB86		103	1	1 unit	7.095	
							3NP52 60-0EB26		103	1	1 unit	6.659	
630	Flat terminals	6 ... 240 ⁵⁾	2 and 1	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	▶ B	3NP53 60-0EA86		103	1	1 unit	7.083	
							3NP53 60-0EA26		103	1	1 unit	5.410	
630	Flat terminals	6 ... 2 x 240 ⁵⁾	3 and 2	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	▶ B	3NP54 60-0EA86		103	1	1 unit	8.462	
							3NP54 60-0EA26		103	1	1 unit	9.233	
For 40 mm busbar systems completely compartmentalized, with high speed closing and fuse monitoring by SIRIUS motor starter protectors/circuit breakers^{2) 6)} Busbar width: 12 mm and 5 mm or 10 mm thickness													
160	Flat terminals	2.5 ... 150 ⁴⁾	00 a. 000	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	A B	3NP50 65-1EF86		103	1	1 unit	2.908	
							3NP50 65-1EF26		103	1	1 unit	2.950	
	Clamp terminals	1-wire 2.5 ... 50 2 conductor 1x 2.5 ... 50 1x 2.5 ... 35 bottom connection	00 a. 000	1 NO + 1 NC 1 NO + 1 NC	1 NO + 1 NC 2 NO	B C	3NP50 65-1EG86		103	1	1 unit	3.020	
							3NP50 65-1EG26		103	1	1 unit	2.973	

¹⁾ See LV HRC Fuse Links.

²⁾ SIRIUS motor starter protectors/circuit breakers: auxiliary switches, 2 NC also available on request.

³⁾ For 3NP50 60 with flat connectors, the relevant 3NY1 106 cable lug covers must be used for the purpose of protection against accidental contact according to DIN VDE 0106-100 (see page 19/110).

⁴⁾ According to DIN 46234 or 16 mm² ... 95 mm² acc. to DIN 46235 (use M10 cable lugs if required).

⁵⁾ According to DIN 46234 or DIN 46235, with cable lug according to DIN 46235: min. conductor cross-section 16 mm² (use M12 cable lugs if required).

⁶⁾ For accessories and further devices on busbar systems, see accessories and switchgear, SIVACON distribution boards and cubicle systems, -> components for 8US, 8UC, 4NC distribution systems -> 8US busbar systems.

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Rated uninter- rupted current I_u	Connection type (double-ended) Con- nection	For LV HRC fuse links according to DIN 43620 ¹⁾ For conductor cross-section	Auxiliary switches on on Motor starter protec- tors/ circuit breakers	Degree of protection IP00, without fuse links, without isolating links, with terminal screws Order No. Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A	mm ²	Size						
For 60 mm busbar systems Use switch version "Surface mounting and installation" and busbar adapter, see "Accessories". Surface mounting and installation Completely compartmentalized, with high speed closing feature With electronic fuse monitoring EF (self-powered), open-circuit principle For rated operational voltages U_e of 400 V ... 500 V AC, infeed must be from the top! With plug-in connection of auxiliary switch connecting cable (length approx. 1 m) for fuse monitoring, status display: green LED illuminated, fault indication: green LED flashing, fuse failure: red LED (display per phase)								
	160	Flat terminals 2.5 120 ³⁾	00 a. 000	1 NO + 1 NC	2 NO + 1 NC	B	3NP50 60-0HA13	103 1 1 unit 2.375
		Clamp terminals 1-wire: 2.5 ... 50 2-wire: 1 x 2.5 ... 50 1 x 2.5 ... 35	00 a. 000	1 NO + 1 NC	2 NO + 1 NC	B	3NP50 60-0HB13	103 1 1 unit 2.500
	250	Flat terminals 6 ... 150 ⁴⁾	1 and 0	1 NO + 1 NC	2 NO + 1 NC	B	3NP52 60-0HA13	103 1 1 unit 5.865
	400	Flat terminals 6 ... 240 ⁴⁾	2 and 1	1 NO + 1 NC	2 NO + 1 NC	B	3NP53 60-0HA13	103 1 1 unit 6.951
	630	Flat terminals 6 ... 240 ⁴⁾	3 and 2	1 NO + 1 NC	2 NO + 1 NC	B	3NP54 60-0HA13	103 1 1 unit 8.513

¹⁾ See LV HRC Fuse Links.

²⁾ For 3NP50 60 with flat connectors, the relevant 3NY1 106 cable lug covers must be used for the purpose of protection against accidental contact according to DIN VDE 0106-100 (see page 19/110).

³⁾ According to DIN 46234 or 16 mm² ... 95 mm² acc. to DIN 46235 (use M10 cable lugs if required).

⁴⁾ According to DIN 46234 or DIN 46235; with cable lug according to DIN 46235: conductor cross-section min. 16 mm² (use M12 cable lugs if required).

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LV HRC fuse switch disconnectors

Rated uninter- rupted current I_u	Connection type (double-ended) Con- nection	For LV HRC fuse links according to DIN 43620 ¹⁾ For conductor cross-section	Auxiliary switches on on Motor starter protec- tors/ circuit break- ers	Degree of protection IP00, without fuse links, without isolating links, with terminal screws Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg					
A	mm ²	Size	DT											
For 40 mm busbar systems Completely compartmentalized, with high speed closing feature with electronic fuse monitoring EF (self-powered), open-circuit principle For rated operational voltages U_e of 400 V ... 500 V AC, infeed must be from the top! For busbar width: 12 mm and 5 mm or 10 mm thickness 160 Flat termi- 2.5 ... 120 ²⁾ 00 a. 000 1 NO + 2 NO + B nals bottom 1 NC 1 NC con- nection										3NP50 65-1HF13	103	1	1 unit	2.776
For 60 mm busbar systems Use switch version "Surface mounting and installation" and busbar adapter, see page 19/111.														

¹⁾ See LV HRC Fuse Links.

²⁾ According to DIN 46234 or 16 mm² ... 95 mm² acc. to DIN 46235
(use M10 cable lugs if required).

For all fuse switch disconnectors with flat connections, use the relevant cable lug covers (3NY7 101 to 3NY7 141) in order to ensure protection against finger touch according to BGVA3, see below.

Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Quick retaining plates between two busbars EN 60715								
	Busbar center-to-center clearance 125 mm	3NP40 10, 3NP40 70	B	3NY1 995	103	1	1 unit	0.135
	Busbar center-to-center clearance 125 mm	3NP42 70	B	3NY7 322	103	1	1 unit	0.249
Cable lug covers and finger-safe cover to BGV A3 (1 set = 2 units) for 1 single mounting or 2 adapter devices								
	3NP40 7 with flat connector ¹⁾	▶	3NY7 101	103	1	1 unit	0.065	
	3NP42 7	▶	3NY7 121	103	1	1 unit	0.220	
	3NP43	▶	3NY7 131	103	1	1 unit	0.221	
	3NP44	▶	3NY7 141	103	1	1 unit	0.319	
Terminals (1 set = 3 units) Conductor cross-section 70 mm ² ... 150 mm ² 120 mm ² ... 240 mm ² 150 mm ² ... 300 mm ²								
	3NP42 7	A	3NY7 120	103	1	1 unit	0.333	
	3NP43	A	3NY7 130	103	1	1 unit	0.583	
	3NP44	A	3NY7 140	103	1	1 unit	0.725	
Triple terminals (1 set = 3 units) For retrofitting on box terminals Conductor cross-section Solid/stranded: 2.5 mm ² ... 16 mm ²								
	3NP40 1	A	3NY7 102	103	1	1 unit	0.131	
	3NP40 7							
	For retrofitting on flat connector Finely stranded with end sleeve: 2.5 mm ² ... 10 mm ²	3NP40 7	B	3NY7 105	103	1	1 unit	0.113

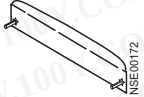
¹⁾ The fuse switch disconnector with mounted cable lug covers, together with molded-plastic masking frame for distributor/device field/incoming feeder unit, is easy to install in the meter cabinet.

* You can order this quantity or a multiple thereof.

BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse switch disconnectors

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	Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
 3NY1 237  3NY1 238  3NY1 263	3-phase busbars Modular width 90 mm = 5 MW For I_n max = 225 A for 2 switch disconnectors Permissible connection 25 mm ² or feeder terminal For 3 switch disconnectors For 4 switch disconnectors Link rails	3NP40 1	A	3NY1 237		103	1	1 unit	0.265
			A	3NY1 238		103	1	1 unit	0.434
			A	3NY1 438		103	1	1 unit	0.650
			A	3NY1 263		103	1	1 unit	0.267
	Covers For 1 blank space in 3NY1 238	3NP40 1	A	3NY1 265		103	1	1 unit	0.012
 3NY1 236	Feeder terminals (1 set = 3 units) For I_n max = 225 A Conductor cross-section solid/stranded: 25 mm ² ... 95 mm ² Finely stranded with end sleeve: 16 mm ² ... 70 mm ²	3NP40 1	A	3NY1 236		103	1	1 unit	0.262
 3NY7 481	Overreaching protections	3NP42 7 3NP43 3NP44	A	3NY7 481		103	1	1 unit	0.021
	Sealing pins (1 pack = 10 units)	3NP42 7 3NP43 3NP44	A	3NY7 482		103	1	10 units	0.056
	Bar thickness compensations (1 assembly kit = 5 units) for only 5 mm thick busbars	3NP42 7 3NP43	A	3NY7 381		103	1	1 unit	0.064
	Fuse carriers Gray with inscription label with voltage inspection holes	3NP40 1 3NP40 7	B B	3NY7 003 3NY7 001		103 103	1 1	1 unit 1 unit	0.160 0.220
 3NY3 035	Auxiliary switches 1 CO For sizes 000 and 00 with self-tapping screws for sizes 1 to 3 to clip on Adapted for electronic applications	3NP40 1 up to 3NP44	▶ B	3NY3 035 3NY3 030		103 103	1 1	1 unit 1 unit	0.004 0.004
	Fuse links sizes 000 With non-insulated grip lugs, gL/gG operational class for cable and line protection, overall width 21 mm according to IEC 60269-2-1 and DIN 43620 400 V/125 A 400 V/160 A	3NP40 1	A B	3NY1 822 3NY1 824		013 013	1 1	3 units 3 units	0.130 0.129
	Signal cables For connection to output socket of fuse monitoring size 00 1-m cable with connector 3-m cable with connector	3NP40 7 3NP40 7	B B	3NY1 910 3NY1 911		103 103	1 1	1 unit 1 unit	0.097 0.261
	Masking frames For installation in 40 mm and 60 mm busbar systems Touch protection covers¹⁾	3NP40 75 3NP40 76	B	3NY7 601		103	1	1 unit	0.125
	Masking frames For installation in any distribution boards²⁾								

¹⁾ When using LV HRC fuse links, size 00 (160 A), the permissible load current is $0.9 \times I_n$.

²⁾ Special covers may be required for installation in ALPHA wall-mounted and floor-mounted distribution boards (STAB, SIKUS) and ALPHA 400-ZS meter cabinets, see page 19/107.

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LV HRC fuse switch disconnectors

Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
mm x mm								
Molded-plastic masking frames								
	215 x 130	3NP40 1	A	3NY1 251	103	1	1 unit	0.052
	215 x 130	3NP40 7 with box terminals	▶	3NY7 200	103	1	1 unit	0.037
	215 x 130	3NP40 7 with flat connector	▶	3NY7 201	103	1	1 unit	0.046
	375 x 220	3NP42 7	▶	3NY7 220	103	1	1 unit	0.112
	375 x 245	3NP43	A	3NY7 230	103	1	1 unit	0.117
	375 x 290	3NP44	A	3NY7 240	103	1	1 unit	0.125
Covers for installation in ALPHA 400-ZS meter cabinets, see publication "Installation and mounting", Order No. E20001-P285-A526-V1								
Molded-plastic masking frames								
Suitable for distribution board/device panel or for incoming feeder panel in the meter cabinet (busbar mounted)								
197 x 215.5	2 x 3NP40 1	A	3NY1 258		103	1	1 unit	0.063
197 x 215.5	1 x 3NP40 1 left	A	3NY1 262		103	1	1 unit	0.093
197 x 215.5	1 x 3NP40 1 right	A	3NY1 264		103	1	1 unit	0.091
208 x 229	1 x 3NP40 7 left	A	3NY7 500		103	1	1 unit	0.120
208 x 229	1 x 3NP40 7 right	A	3NY7 501		103	1	1 unit	0.120
208 x 236	2 x 3NP40 7	A	3NY7 502		103	1	1 unit	0.054
309 x 216	3NP42 7	▶	3NY7 220		103	1	1 unit	0.112
375 x 245	3NP43	A	3NY7 230		103	1	1 unit	0.117
375 x 290	3NP44	A	3NY7 240		103	1	1 unit	0.125
Covers for installation in ALPHA 160- and ALPHA 400 wall-mounted distribution boards (STAB 160/STAB 400), and ALPHA 630 floor-mounted distribution boards (SIKUS 630)								
Touch protection covers¹⁾²⁾								
	3NP40 76	B	3NY7 600		103	1	1 unit	0.095
Molded-plastic masking frames								
For mounting on mounting plates or busbars. For further information, see Catalog ET A1 "ALPHA Distribution Boards"								
166 x 199	1 x 3NP40 1 right	A	3NY1 260		103	1	1 unit	0.082
166 x 199	1 x 3NP40 1 left	A	3NY1 261		103	1	1 unit	0.086
166 x 199	2 x 3NP40 1	A	3NY1 248		103	1	1 unit	0.036
208 x 229	1 x 3NP40 7 left	A	3NY7 500		103	1	1 unit	0.120
208 x 229	1 x 3NP40 7 right	A	3NY7 501		103	1	1 unit	0.120
208 x 236	2 x 3NP40 7	A	3NY7 502		103	1	1 unit	0.054
309 x 216 ³⁾	3NP42 7	A	3NY7 820		103	1	1 unit	0.113
375 x 245	3NP43	A	3NY7 230		103	1	1 unit	0.117
375 x 290	3NP44	A	3NY7 240		103	1	1 unit	0.125
Covers for installation in 8HP molded-plastic distribution systems								
Molded-plastic masking frames								
For installation in 8HP complete enclosures with fuse switch disconnectors 8HP enclosure (size)								
1	1 x 3NP40 10	A	8HP6 431		046	1	1 unit	0.221
1	1 x 3NP40 70	A	8HP6 422		046	1	1 unit	0.224
2	2 x 3NP40 10	A	8HP6 432		046	1	1 unit	0.465
2	3 x 3NP40 10	A	8HP6 432		046	1	1 unit	0.465
2	1 x 3NP40 70	A	8HP6 423		046	1	1 unit	0.230
2	2 x 3NP40 70	A	8HP6 424		046	1	1 unit	0.203
2.5	1 x 3NP40 70	A	8HP6 423		046	1	1 unit	0.230
2.5	2 x 3NP40 70	A	8HP6 424		046	1	1 unit	0.203
2.5	1 x 3NP42 70	A	8HP6 427		046	1	1 unit	0.250

¹⁾ When using LV HRC fuse links, size 00 (160 A), the permissible load current is $0.9 \times I_n$.

²⁾ In 60 mm busbar systems, the conductor cross-section is limited to 16 mm² if the cable feeder is at the bottom.

³⁾ If 8GE3 818-0 mounting plates are used, 3NY7 220 molded-plastic masking frames can also be used (for installation in any distribution boards).

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LV HRC fuse switch disconnectors

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Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
mm x mm								
Molded-plastic masking frames								
For mounting between 2 standard mounting rails with 3NY1 995 quick retaining plate								
197 × 215.5	1 × 3NP40 10 right with and without auxiliary switch	A	3NY1 256		103	1	1 unit	0.116
197 × 215.5	1 × 3NP40 10 left with and without auxiliary switch	A	3NY1 257		103	1	1 unit	0.118
In a field of width B1 197 × 215.5	2 × 3NP40 10 with and without auxiliary switch	A	3NY1 258		103	1	1 unit	0.063
In a field of width B2/2 197 × 235	2 × 3NP40 10 with and without auxiliary switch	A	3NY1 250		103	1	1 unit	0.075
								
3NY1 250								
								
3NY1 253								
In a field of width B2 197 × 485	3 × 3NP40 10 with and without auxiliary switch (supports included in scope of supply)	B	3NY1 253		103	1	1 unit	0.225
197 × 485	4 × 3NP40 10 with and without auxiliary switch (supports included in scope of supply)	B	3NY1 254		103	1	1 unit	0.188
197 × 485	5 × 3NP40 10 with and without auxiliary switch	A	3NY1 255		103	1	1 unit	0.125
								
3NY1 255								
Supports								
(1 set = 10 units) for 3NY1 253 and 3NY1 254 molded-plastic masking frames								
	3NP40 1	C	3NY1 271		103	1	1 unit	0.100
Molded-plastic masking frames								
For mounting on 3NP40 1 switch disconnectors								
166 × 199	1 × 3NP40 1 right with and without auxiliary switch	A	3NY1 260		103	1	1 unit	0.082
								
3NY1 260								
On standard mounting rails With special 8GD9 equipment rack and for mounting on busbars (except 3NY1 247) 166 × 199	1 × 3NP40 1 left with and without auxiliary switch	A	3NY1 261		103	1	1 unit	0.086
In a field of width B1 166 × 199	2 × 3NP40 1 with and without auxiliary switch	A	3NY1 248		103	1	1 unit	0.036
In a field of width B2 166 × 469	5 × 3NP40 1 with and without auxiliary switch	A	3NY1 247		103	1	1 unit	0.072
								
3NY1 247								
Blanking covers								
(1 set = 10 units) for covering blank spaces in the 3NY1 2 molded-plastic masking frames, width 90								
	3NP40 1	B	3NY1 270		103	1	1 unit	0.040

* You can order this quantity or a multiple thereof.

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BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse switch disconnectors

Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg	
mm x mm									
Molded-plastic masking frames									
For mounting between two standard mounting rails									
208 x 219	1 x 3NP40 7 left	B	3NY7 800		103	1	1 unit	0.100	
208 x 219	1 x 3NP40 7 right	B	3NY7 801		103	1	1 unit	0.120	
With 3NY1 995 quick retaining plate	2 x 3NP40 7	B	3NY7 802		103	1	1 unit	0.060	
208 x 222									
With 3NY1 322 quick retaining plate	1 3NP42 7	A	3NY7 820		103	1	1 unit	0.113	
309 x 216									
Molded-plastic masking frames									
For fixing on 8GD9 100 mounting plate									
208 x 229	1 x 3NP40 7 left	A	3NY7 500		103	1	1 unit	0.120	
208 x 229	1 x 3NP40 7 right	A	3NY7 501		103	1	1 unit	0.120	
208 x 236	2 x 3NP40 7	A	3NY7 502		103	1	1 unit	0.054	
309 x 216 ¹⁾	1 3NP42 70	A	3NY7 820		103	1	1 unit	0.113	
Molded-plastic masking frames									
For fixing on 8GD9 591 mounting plate									
375 x 24	1 3NP43 70	A	3NY7 230		103	1	1 unit	0.117	
On 8GD9 592 mounting plate									
375 x 290	1 3NP44 70	A	3NY7 240		103	1	1 unit	0.125	
Fuse carriers									
	3NP50 6-.C..0	B	3NY1 074		103	1	1 unit	0.620	
	3NP52 60-.C..0	B	3NY1 371		103	1	1 unit	0.263	
	3NP53 60-.C..0	B	3NY1 372		103	1	1 unit	1.510	
	3NP54 60-.C..0	B	3NY1 373		103	1	1 unit	1.690	
	With fuse monitoring by 3RV1 motor starter protectors/circuit b. (with auxiliary switches, 1 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP50 6-.E..6	B	3NY1 420		103	1	1 unit	1.405
	3NP52 60-.E..6	B	3NY1 421		103	1	1 unit	1.900	
	3NP53 60-.E..6	B	3NY1 422		103	1	1 unit	1.980	
	3NP54 60-.E..6	B	3NY1 423		103	1	1 unit	2.600	
	Plug and connecting cable 1 m long	3NP5 with 3RV1	B	3NY1 910		103	1	1 unit	0.097
	3 m long		B	3NY1 911		103	1	1 unit	0.261
	With electronic fuse monitoring for 400 V ... 500 V DC (with auxiliary switches, 2 NO + 1 NC), with plug-in connection, without connector and connecting cable	3NP50 6-.H.13	B	3NY1 513-0		103	1	1 unit	1.235
		3NP52 60-.H.13	C	3NY1 513-2		103	1	1 unit	2.130
		3NP53 60-.H.13	B	3NY1 513-3		103	1	1 unit	2.146
	3NP54 60-.H.13	C	3NY1 513-4		103	1	1 unit	0.325	
	Connector and connecting cable (6P) 3 m long	3NP5 with EF	B	3NY1 915		103	1	1 unit	0.372
Auxiliary switches 1 NO + 1 NC									
	With actuating cams, screws and washers (mounting kit)	3NP50 ²⁾	B	3NY3 033		103	1	1 unit	0.015
	With fixing bracket and screws (mounting kit)	3NP52 ... 3NP54	B	3NY3 034		103	1	1 unit	0.015

¹⁾ For mounting on 8GD9 590 mounting plate, the 3NY72 20 molded-plastic masking frame can also be used.

²⁾ If retrofitted, drill holes required.

BETA Protecting Low-Voltage Fuse Systems

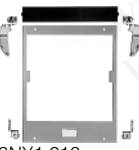
LV HRC fuse switch disconnectors

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Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Arc chutes								
mm x mm								
	Arc chutes (for 3NP52, 3NP53 and 3NP54, 3 units each are required)	3NP50	B	3NY4 031	103	1	1 unit	0.218
		3NP52	B	3NY4 011	103	1	1 unit	0.215
		3NP53, 3NP54	B	3NY4 012	103	1	1 unit	0.240
								
3NY4 011								
Molded-plastic masking frames								
As replacement for covers from assembly kits for installation (without mounting brackets and small parts)								
300 x 220	3NY1 210	A	3NY1 102		103	1	1 unit	0.071
300 x 245	3NY1 211	A	3NY1 103		103	1	1 unit	0.075
300 x 290	3NY1 212	A	3NY1 104		103	1	1 unit	0.084
For installation in any distribution board								
Molded-plastic masking frames								
	For installation in cabinet 215 x 135	3NP50 with and without auxiliary switches	A	3NY1 105	103	1	1 unit	0.045
	215 x 135	with auxiliary switch	A	3NY1 115	103	1	1 unit	0.044
	For installation in metal front panels 220 x 160	with and without auxiliary switches	A	3NY1 125	103	1	1 unit	0.062
	For covering terminals 265 x 135	3NP50 with and without auxiliary switches	A	3NY1 107	103	1	1 unit	0.073
	For covering cable lug connections 290 x 135	3NP50 with and without auxiliary switches	A	3NY1 106	103	1	1 unit	0.071
	For separate covering of top and bottom cable lug connections 290 x 135	with auxiliary switch	A	3NY1 116	103	1	1 unit	0.071
		3NP50 with and without auxiliary switches	A	3NY1 108	103	1	1 unit	0.048
	Assembly kits for installation With molded-plastic masking frame, mounting brackets and small parts. For disconnectors with and without auxiliary switches							
	250 x 149	3NP50 60	B	3NY1 208	103	1	1 unit	0.531
	300 x 220	3NP52 60	B	3NY1 210	103	1	1 unit	0.287
3NY1 212	300 x 245	3NP53 60	B	3NY1 211	103	1	1 unit	0.298
	300 x 290	3NP54 60	B	3NY1 212	103	1	1 unit	0.313

* You can order this quantity or a multiple thereof.

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LV HRC fuse switch disconnectors

Version	For fuse switch disconnectors	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Covers for cable lug connection (1 set = 6 units) screw-on to free screw end for protection against unintentional contact								
 3TX6 546-3B	Covering length, 99	3NP52	A	3NY1 241	103	1	1 unit	0.205
	Covering length, 95	3NP53 3NP54	B	3TX6 546-3B	101	1	1 unit	0.260
	Covering length, 120		B	3NY1 245	103	1	1 unit	0.336
Clamp terminals (1 set = 3 units) 2.5 ... 50 mm ² ¹⁾ 35 ... 120 mm ²								
 3NY1 907		3NP50	B	3NY1 903	103	1	1 unit	0.108
		3NP52	B	3NY1 907	103	1	1 unit	0.225
Busbar adapters For 60 mm busbar system Rail width 108 250 (length 320 mm, M10 terminal screws, connecting cables must be made)								
 8US12 10-4AG00		3NP50	A	8US12 91-4SB00	143	1	1 unit	0.551
		3NP52, 3NP53, 3NP54 ²⁾	A	8US12 10-4AG00	143	1	1 unit	3.060
Sealing eyes Can be retrofitted (1 pack = 10 units)								
		3NP50	B	3NY1 940	103	1	1 unit	0.010

¹⁾ Also available in 2-wire version: 1 × 2.5 mm² ... 50 mm² and 1 × 2.5 mm² ... 35 mm².

²⁾ Switch is wider than adapter; however, this can be expanded to 276 mm using two 8US19 98-2BM00 side modules.

BETA Protecting Low-Voltage Fuse Systems

LV HRC fuse switch disconnectors

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More information

SENTRON 3NP fuse switch disconnectors



3NP40 10 3NP40 70 3NP52 with opened fuse carrier

The SENTRON 3NP4 and 3NP5 fuse switch disconnectors are climate-proof and meet the requirements of IEC 60947-1, IEC 60947-3 and DIN VDE 0660-107.

For operation in heavily sulfurous atmospheres, the SENTRON 3NP5 series, and the 3NP40 1 and 3NP40 7 versions are available as tinned versions (delivery on request).

The SENTRON 3NP5 fuse switch disconnector series also complies with the standard BS 5419 and is approved for operation in shipboard systems (use approved fuse links).

All SENTRON 3NP4 and 3NP5 fuse switch disconnectors can be sealed as standard (or can be sealed through accessories).

Fuse monitoring by SIRIUS motor starter protectors/circuit breakers

For fuse monitoring, a SIRIUS motor starter protector/circuit breaker is factory-fitted and hard-wired to the fuse carrier of the SENTRON 3NP4 and 3NP5 fuse switch disconnectors. If the fuse carrier is closed, the three conducting paths of the SIRIUS motor starter protector/circuit breaker are switched in parallel to the fuse links to be monitored. If the fuse carrier is open, all main current paths of the motor starter protector/circuit breaker are off circuit. The internal resistance of the motor starter protector/circuit breaker is great enough not to impair the protective function of the monitored fuse links. Failure of a fuse will trip the motor starter protector/circuit breaker.

Electronic fuse monitoring EF

For electronic fuse monitoring, the EF monitor is factory-fitted and hard-wired to the fuse carrier of SENTRON 3NP5 fuse switch disconnectors.

The EF monitor works independently of any loads. Failure of a fuse can be relayed to a control room through integrated auxiliary switches (2 NO + 1 NC) by means of a centralized fault indication or used to isolate the load through e.g. a contactor. Actuation of the auxiliary switch will depend on the EF version. Version "A" stands for "open-circuit principle", version "R" for closed-circuit principle" (see schematic circuit diagram).

If a fuse is tripped, a green LED signal flashes (general fault) and the location of the failed fuse is indicated by a red LED. Using more than one device facilitates identification of the affected branch circuit. The EF monitor is automatically reset to the standby position once the faulty fuses are replaced. This state is indicated visually by the status display (green LED). The EF monitor is also suitable for operation in industrial networks badly afflicted by harmonics.

Auxiliary switches

The SENTRON 3NP4 and 3NP5 fuse switch disconnectors can also be retrofitted with auxiliary switches for indicating the switch position of the fuse carrier. One switching block (1 CO) can be mounted on SENTRON 3NP4 fuse switch disconnectors size LV HRC 000 and two switching blocks (1 CO) on sizes LV HRC 00 to LV HRC 3 respectively. SENTRON 3NP5 fuse switch disconnectors can also be delivered with a 2-pole auxiliary switch (1 NO + 1 NC) if required. The version with fuse monitoring is fitted with this auxiliary switch as standard.

The auxiliary switch of the motor starter protector/circuit breaker can be used for indication purposes or to disconnect the main circuit, e.g. through a contactor. The signal cable for the SENTRON 3NP4 fuse switch disconnector, size LV HRC 00, must be ordered separately. Sizes LV HRC 1 to LV HRC 3 are connected using flat terminations. Delivery of the SENTRON 3NP5 fuse switch disconnectors includes the signal cable, complete with connector. SIRIUS motor starter protectors/circuit breakers cannot be used for fuse monitoring in branch circuits by motor starter protectors/circuit breakers where a fault may result in > 220 V DC feedback. In the case of parallel cables and meshed systems, only a voltage difference of > 24 V at the switch will trip the motor starter protector/circuit breaker.

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BETA Protecting SITOR Semiconductor Fuses

SITOR, LV HRC design

Overview

SITOR fuses protect power semiconductors from the effects of short-circuits because the super quick disconnect characteristic is far quicker than with conventional LV HRC fuses. They protect expensive devices and system components such as converters with fuses in the input and in the DC link, UPS systems and soft starters for motors.

Panel mounting requirements have given rise to various connection versions.

The fuses with blade contacts comply with IEC 60269-2 and are suitable for installation in LV HRC fuse bases, in LV HRC fuse switch disconnectors and in switch disconnectors with fuses. They also include fuses with slotted blade contacts for screw mounting with 110 mm mounting dimension, whose sizes comply with IEC 60269-4.

Fuses with slotted blade contacts for screw mounting with 80 mm or 110 mm mounting dimension are often screwed directly onto busbars for optimum heat dissipation. Even better heat transmission is provided by the compact fuses with M10 or M12 female thread, which are also mounted directly onto busbars.

Bolt-on links with 80 mm mounting dimension are another panel-mounting version for direct busbar mounting.

The fuses for SITOR thyristor sets, railway rectifiers or electrolysis systems were developed specially for these applications.

For LV HRC fuse bases and LV HRC fuse switch disconnectors, see the catalog section "Low-voltage fuse systems".

For more information and characteristic curves for the configuration and assignment of SITOR fuses to the 3NP and 3KL fuse bases and safety switching devices, see the catalog ET B1 "Add-On Characteristics Curves • 2008".

Benefits

- SITOR fuses have a high varying load factor, which ensures a high level of operating safety and plant availability - even when subject to constant load change.
- The use of SITOR fuses in our bases or switch disconnectors has been tested with regard to heat dissipation and maximum current loading. This makes planning and dimensioning easier and prevents consequential damage.
- Our high standard of quality ensures good compliance with the characteristic curve and accuracy. This ensures long-term protection of devices.

BETA Protecting SITOR Semiconductor Fuses

SITOR, LV HRC design

勝特力材料 886-3-5753170
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勝特力电子(深圳) 86-755-83298787
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Selection and ordering data

Size	I_e	U_e	Operational classes	Breaking I_t value	Power-loss	Varying load factor	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
A	VAC			A ² s	W	WL							kg
SITOR, LV HRC design													
With slotted blade contacts for M10 screw mounting, mounting dimension: 110 mm, or for installation in LV HRC fuse bases or switch disconnectors													
	3	150	500	gR	33000	35	0.85	B	3NC2 423-3C	047	1	3 units	0.940
		200			64000	40		B	3NC2 425-3C	047	1	3 units	0.940
		250			99000	50		B	3NC2 427-3C	047	1	3 units	0.940
		300			132000	65		B	3NC2 428-3C	047	1	3 units	0.940
		350			249000	60		B	3NC2 431-3C	047	1	3 units	0.940
		400			390000	50		B	3NC2 432-3C	047	1	3 units	0.940
With slotted blade contacts with two M10 oblong slots, or for installation in LV HRC fuse bases or switch disconnectors													
	3	150	500	gR	33000	35	0.85	D	3NC2 423-0C	047	1	3 units	0.940
		200			64000	40		D	3NC2 425-0C	047	1	3 units	0.940
		250			99000	50		D	3NC2 427-0C	047	1	3 units	0.940
		300			132000	65		D	3NC2 428-0C	047	1	3 units	0.940
		350			249000	60		C	3NC2 431-0C	047	1	3 units	0.940
		400			390000	50		D	3NC2 432-0C	047	1	3 units	0.940
With blade contacts for mounting in LV HRC fuse bases or switch disconnectors													
	3	710	600	gR	2460000	65	1.0	D	3NE1 437-1	047	1	3 units	1.120
		800			3350000	72		B	3NE1 438-1	047	1	3 units	1.113
With slotted blade contacts for M10 screw fixing, mounting dimension: 110 mm, or for installation in LV HRC fuse bases or switch disconnectors													
	3	150	690	gR	17600	40	0.85	B	3NC8 423-3C	047	1	3 units	0.940
		200			38400	55		B	3NC8 425-3C	047	1	3 units	0.940
		250			70400	72		B	3NC8 427-3C	047	1	3 units	0.940
		350			176000	95		B	3NC8 431-3C	047	1	3 units	0.940
		500			448000	130		B	3NC8 434-3C	047	1	3 units	0.940
		1000	600	aR	2480000	140	0.9	C	3NC8 444-3C	047	1	3 units	0.940
With slotted blade contacts with two M10 oblong slots for screw fixing, or for installation in LV HRC fuse bases or switch disconnectors													
	3	150	690	gR	17600	40	0.85	B	3NC8 423-0C	047	1	3 units	0.940
		200			38400	55		B	3NC8 425-0C	047	1	3 units	0.940
		250			70400	72		B	3NC8 427-0C	047	1	3 units	0.940
		350			176000	95		B	3NC8 431-0C	047	1	3 units	0.940
		500			448000	130		B	3NC8 434-0C	047	1	3 units	0.940

* You can order this quantity or a multiple thereof.

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BETA Protecting SITOR Semiconductor Fuses

SITOR, LV HRC design

Size	I_e	U_e	Operational classes	Breaking I^2t value	Power loss	Varying load factor	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
A		VAC/ V DC		A ² s	W	WL							kg
With M8 bolt-on links, mounting dimension: 80 mm For screwing onto busbars													
000	20	690/700	gR	83	7	0.9	B	3NE8 714-1		047	1	10 units	0.130
	25			140	9	0.9	B	3NE8 715-1		047	1	10 units	0.130
	32			285	10	0.9	A	3NE8 701-1		047	1	10 units	0.131
	40			490	12	0.9	A	3NE8 702-1		047	1	10 units	0.131
	50			815	15	0.9	A	3NE8 717-1		047	1	10 units	0.132
	63		aR	1550	16	0.95	A	3NE8 718-1		047	1	10 units	0.132
	80			2700	18	0.9	▶	3NE8 720-1		047	1	10 units	0.131
	100			4950	19	0.95	▶	3NE8 721-1		047	1	10 units	0.130
	125			9100	23	0.95	▶	3NE8 722-1		047	1	10 units	0.131
	160			17000	31	0.9	▶	3NE8 724-1		047	1	10 units	0.132
	200			30000	36	0.9	▶	3NE8 725-1		047	1	10 units	0.130
	250			55000	42	0.9	▶	3NE8 727-1		047	1	10 units	0.133
	315			85500	54	0.85	▶	3NE8 731-1		047	1	10 units	0.134
With blade contacts for mounting in LV HRC fuse bases or switch disconnectors													
000	16	690	gS	200	3.0	1.0	▶	3NE1 813-0		047	1	3 units	0.127
	20			430	3.5	1.0	▶	3NE1 814-0		047	1	3 units	0.128
	25			780	4.0	1.0	▶	3NE1 815-0		047	1	3 units	0.127
	35			1700	5.0	1.0	▶	3NE1 803-0		047	1	3 units	0.128
	40			3000	5.0	1.0	▶	3NE1 802-0		047	1	3 units	0.127
	50			4400	6.0	1.0	▶	3NE1 817-0		047	1	3 units	0.128
	63			9000	7.0	1.0	▶	3NE1 818-0		047	1	3 units	0.128
	80			18000	8.0	1.0	▶	3NE1 820-0		047	1	3 units	0.129
00	100	690	gS	33000	10	1.0	▶	3NE1 021-0		047	1	3 units	0.202
	125			63000	11	1.0	▶	3NE1 022-0		047	1	3 units	0.202
1	160	690	gS	60000	24	1.0	▶	3NE1 224-0		047	1	3 units	0.580
	200			100000	27	1.0	▶	3NE1 225-0		047	1	3 units	0.582
	250			200000	30	1.0	▶	3NE1 227-0		047	1	3 units	0.580
	315			310000	38	1.0	A	3NE1 230-0		047	1	3 units	0.581
2	350	690	gS	430000	42	1.0	▶	3NE1 331-0		047	1	3 units	0.766
	400			590000	45	1.0	▶	3NE1 332-0		047	1	3 units	0.743
	450			750000	53	1.0	A	3NE1 333-0		047	1	3 units	0.760
	500			950000	56	1.0	A	3NE1 334-0		047	1	3 units	0.766
3	560	690	gS	1700000	50	1.0	A	3NE1 435-0		047	1	3 units	1.111
	630			2350000	55	1.0	A	3NE1 436-0		047	1	3 units	1.114
	710			3400000	60	1.0	A	3NE1 437-0		047	1	3 units	1.117
	800			5000000	59	1.0	A	3NE1 438-0		047	1	3 units	1.124

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	Size	I_e	U_e	Operational classes	Breaking I^2t value	Power loss	Varying load factor	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
		A	VAC		A ² s	W	WL							kg
	00	80	690	gR	5800	10.5	1.0	A	3NE1 020-2		047	1	3 units	0.203
		100			11000	11.5	1.0	A	3NE1 021-2		047	1	3 units	0.203
		125			23000	13.5	1.0	A	3NE1 022-2		047	1	3 units	0.203
	1	160	690	gR	18600	30	1.0	A	3NE1 224-2		047	1	3 units	0.613
		200			51800	28	1.0	A	3NE1 225-2		047	1	3 units	0.612
		250			80900	35	1.0	A	3NE1 227-2		047	1	3 units	0.626
		315			168000	42	1.0	A	3NE1 230-2		047	1	3 units	0.615
	2	350	690	gR	177000	44	1.0	A	3NE1 331-2		047	1	3 units	0.754
		450			276500	62	1.0	A	3NE1 333-2		047	1	3 units	0.768
		500			398000	65	1.0	A	3NE1 334-2		047	1	3 units	0.768
	3	560	690	gR	890000	60	1.0	A	3NE1 435-2		047	1	3 units	1.149
		630			1390000	62	1.0	A	3NE1 436-2		047	1	3 units	1.179
		670			1640000	65	1.0	A	3NE1 447-2		047	1	3 units	1.170
		710			1818000	72	1.0	B	3NE1 437-2		047	1	3 units	1.153
		800			2475000	82	1.0	A	3NE1 438-2		047	1	3 units	1.184
		850			3640000	76	1.0	A	3NE1 448-2		047	1	3 units	1.207
	00	25	690	gR	180	7	0.95	▶	3NE8 015-1		047	1	3 units	0.205
		35			400	9	0.95	▶	3NE8 003-1		047	1	3 units	0.204
		50			700	14	0.95	▶	3NE8 017-1		047	1	3 units	0.203
		63		aR	1400	16	0.95	▶	3NE8 018-1		047	1	3 units	0.205
		80			2400	19	0.95	▶	3NE8 020-1		047	1	3 units	0.203
		100			4200	22	0.95	▶	3NE8 021-1		047	1	3 units	0.205
		125			6500	28	0.95	▶	3NE8 022-1		047	1	3 units	0.213
		160			13000	38	0.95	▶	3NE8 024-1		047	1	3 units	0.207
	3	630	690	aR	244000	120	0.85	C	3NC3 236-1		047	1	3 units	0.785
		710			346000	130	0.85	D	3NC3 237-1		047	1	3 units	0.785
		800			498000	135	0.9	C	3NC3 238-1		047	1	3 units	0.785
		900			677000	145	0.9	D	3NC3 240-1		047	1	3 units	0.785
		1000			975000	155	0.95	C	3NC3 241-1		047	1	3 units	0.785
		1100			1382000	165	0.95	D	3NC3 242-1		047	1	3 units	0.785
		1250			1990000	175	0.95	C	3NC3 243-1		047	1	3 units	0.785
		1400			2100000	200	0.95	D	3NC3 244-1		047	1	3 units	0.785
		1600			2860000	240	0.9	D	3NC3 245-1		047	1	3 units	0.785

With slotted blade contacts for M12 screw fixing,
 mounting dimension: 80 mm

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SITOR, LV HRC design

	Size	I_e	U_e	Operational classes	Breaking I^2t value	Power loss	Varying load factor	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	A	VAC			A ² s	W	WL							kg
	With M12 female thread at both ends for direct busbar mounting													
	3	630	690	aR	244000	125	0.9	C	3NC3 236-6		047	1	3 units	0.765
		710			346000	130	0.9	D	3NC3 237-6		047	1	3 units	0.765
		800			498000	135	0.95	C	3NC3 238-6		047	1	3 units	0.765
		900			677000	140	0.95	D	3NC3 240-6		047	1	3 units	0.765
		1000			975000	145	1.0	C	3NC3 241-6		047	1	3 units	0.765
		1100			1382000	150	1.0	D	3NC3 242-6		047	1	3 units	0.765
		1250			1990000	155	1.0	C	3NC3 243-6		047	1	3 units	0.765
		1400	500		2100000	175	1.0	C	3NC3 244-6		047	1	3 units	0.765
		1600			2860000	195	0.95	C	3NC3 245-6		047	1	3 units	0.765
	With slotted blade contacts for M10 screw fixing, mounting dimension: 110 mm, or for installation in LV HRC fuse bases or switch disconnectors													
	2	250	800	aR	29700	105	0.85	▶	3NE4 327-0B		047	1	3 units	0.753
		315			60700	120	0.85	▶	3NE4 330-0B		047	1	3 units	0.760
		450			191000	140	0.85	▶	3NE4 333-0B		047	1	3 units	0.760
		500			276000	155	0.85	▶	3NE4 334-0B		047	1	3 units	0.754
	With blade contacts for mounting in LV HRC fuse bases or switch disconnectors													
	0	32	1000	gR	280	12	0.9	▶	3NE4 101		047	1	3 units	0.278
		40			500	13	0.9	▶	3NE4 102		047	1	3 units	0.277
		50			800	16	0.9	▶	3NE4 117		047	1	3 units	0.276
		63		aR	1500	20	0.9	▶	3NE4 118		047	1	3 units	0.279
		80			3000	22	0.9	▶	3NE4 120		047	1	3 units	0.276
		100			6000	24	0.9	▶	3NE4 121		047	1	3 units	0.278
		125			14000	30	0.9	▶	3NE4 122		047	1	3 units	0.279
		160			29000	35	0.9	▶	3NE4 124		047	1	3 units	0.279
	With slotted blade contacts for M10 screw fixing, mounting dimension: 110 mm, or for installation in LV HRC fuse bases or switch disconnectors													
	1	100	1000	aR	4800	28	0.95	A	3NE3 221		047	1	3 units	0.580
		125			7200	36	0.95	A	3NE3 222		047	1	3 units	0.568
		160			13000	42	0.95	▶	3NE3 224		047	1	3 units	0.573
		200			30000	42	0.95	▶	3NE3 225		047	1	3 units	0.570
		250			48000	50	0.95	▶	3NE3 227		047	1	3 units	0.580
		315			80000	65	0.95	▶	3NE3 230-0B		047	1	3 units	0.585
		350			100000	75	0.9	A	3NE3 231		047	1	3 units	0.590
		400			135000	85	0.9	A	3NE3 232-0B		047	1	3 units	0.576
		450			175000	95	0.9	▶	3NE3 233		047	1	3 units	0.720
	2	400	1000	aR	135000	85	1.0	A	3NE3 332-0B		047	1	3 units	0.759
		450			175000	90	1.0	A	3NE3 333		047	1	3 units	0.748
		500			260000	90	1.0	▶	3NE3 334-0B		047	1	3 units	0.753
		560			360000	95	1.0	▶	3NE3 335		047	1	3 units	0.756
		630			600000	100	1.0	▶	3NE3 336		047	1	3 units	0.760
		710	900	aR	800000	105	1.0	▶	3NE3 337-8		047	1	3 units	0.762
		800	800		850000	130	0.95	▶	3NE3 338-8		047	1	3 units	0.764
		900	690		920000	165	0.95	▶	3NE3 340-8		047	1	3 units	0.753
	With slotted blade contacts for M10 screw fixing, mounting dimension: 130 mm, or for installation in LV HRC fuse bases or switch disconnectors													
	3	100		aR	13500	25	1.0	D	3NE3 421-0C		047	1	3 units	1.120
		224			54000	85	1.0	B	3NE3 626-0C		047	1	3 units	1.120
		315			218000	80	1.0	B	3NE3 430-0C		047	1	3 units	1.120
		400			364000	110	1.0	B	3NE3 432-0C		047	1	3 units	1.120
		450			488000	110	1.0	B	3NE3 635-0C		047	1	3 units	1.120
		500			870000	95	1.0	B	3NE3 434-0C		047	1	3 units	1.120
		630			1280000	132	1.0	D	3NE3 636-0C		047	1	3 units	1.120
	With M10 female thread at both ends for direct mounting on busbars													
	3	450	1000	aR	488000	110	1.0	D	3NE3 635-6		047	1	3 units	1.184

* You can order this quantity or a multiple thereof.

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Size	I_e	U_e	Operational classes	Breaking I^2t value	Power loss	Varying load factor	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
A	VAC			A ² s	W	WL							kg
With slotted blade contacts for M12 screw fixing, mounting dimension: 140 mm													
3	710	1000	aR	1950000	145	1.0	D	3NE3 637-1C		047	1	3 units	1.120
With slotted blade contacts for M12 screw fixing, mounting dimension: 110 mm, or for installation in LV HRC fuse bases or switch disconnectors													
3	630	1000	aR	418000	145	0.85	C	3NC3 336-1		047	1	3 units	1.020
	710			569000	150	0.85	D	3NC3 337-1		047	1	3 units	1.020
	800			819000	155	0.85	C	3NC3 338-1		047	1	3 units	1.020
	900			1160000	165	0.9	D	3NC3 340-1		047	1	3 units	1.020
	1000			1670000	170	0.9	C	3NC3 341-1		047	1	3 units	1.020
	1100	800		1910000	185	0.9	D	3NC3 342-1		047	1	3 units	1.020
	1250			2600000	210	0.9	D	3NC3 343-1		047	1	3 units	1.020
With M12 female thread at both ends for direct busbar mounting													
3	630	1000	aR	418000	130	0.9	C	3NC3 336-6		047	1	3 units	0.980
	710			569000	140	0.9	D	3NC3 337-6		047	1	3 units	0.980
	800			819000	150	0.9	C	3NC3 338-6		047	1	3 units	0.980
	900			1160000	160	0.95	D	3NC3 340-6		047	1	3 units	0.980
	1000			1670000	165	0.95	C	3NC3 341-6		047	1	3 units	0.980
	1100	800		1910000	175	0.95	D	3NC3 342-6		047	1	3 units	0.980
	1250			2600000	185	0.95	C	3NC3 343-6		047	1	3 units	0.980
With slotted blade contacts for M10 screw fixing, mounting dimension: 210 mm													
3	160	1500	aR	54000	56	1.0	D	3NE5 424-0C		047	1	2 units	1.860
	224			138000	80	1.0	C	3NE5 426-0C		047	1	2 units	1.860
	315			311000	115	1.0	D	3NE5 430-0C		047	1	2 units	1.860
	350			428000	135	1.0	D	3NE5 431-0C		047	1	2 units	1.860
	450			870000	145	0.95	D	3NE5 433-0C		047	1	2 units	1.860
	450			870000	145	0.95	D	3NE5 433-1C		047	1	2 units	1.860
With slotted blade contacts for M10 screw fixing, mounting dimension: 170 mm													
3	250	1500	aR	84000	130	1.0	D	3NE5 627-0C		047	1	3 units	1.520
	450			590000	160	1.0	B	3NE5 633-0C		047	1	3 units	1.520
	600			1950000	145	1.0	D	3NE5 643-0C		047	1	3 units	1.520
With slotted blade contacts for M10 screw fixing, mounting dimension: 210 mm													
3	200	2000	aR	138000	75	1.0	D	3NE7 425-0C		047	1	2 units	1.860
	250			218000	110	1.0	D	3NE7 427-0C		047	1	2 units	1.860
	350			555000	120	1.0	D	3NE7 431-0C		047	1	2 units	1.860
	400			870000	150	1.0	D	3NE7 432-0C		047	1	2 units	1.860
	450			960000	160	1.0	D	3NE7 633-0C		047	1	2 units	1.860
	630			1950000	220	1.0	D	3NE7 636-0C		047	1	2 units	1.860
With slotted blade contacts for M12 screw fixing, mounting dimension: 210 mm													
3	450	2000	aR	960000	160	1.0	C	3NE7 633-1C		047	1	2 units	1.860
	525			1120000	210	1.0	D	3NE7 648-1C		047	1	2 units	1.860
	630			1950000	220	1.0	C	3NE7 636-1C		047	1	2 units	1.860
	710			3110000	275	1.0	B	3NE7 637-1C		047	1	2 units	1.860

* You can order this quantity or a multiple thereof.

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BETA Protecting SITOR Semiconductor Fuses

SITOR, LV HRC design

Size	I_e	U_e	Operational classes	Breaking I^2t value	Power loss	Varying load factor	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
A	VAC			A ² s	W	WL							kg
With slotted blade contacts for M12 screw fixing, mounting dimension: 260 mm													
3	400	2500	aR	620000	250	1.0	D	3NE9 632-1C		047	1	1 unit	2.350
	500			1270000	235	1.0	D	3NE9 634-1C		047	1	1 unit	2.350
	630			2800000	275	1.0	D	3NE9 636-1C		047	1	1 unit	2.350
For screwing onto water-cooled busbars for rectifiers in electrolysis systems													
--	350	800	aR	260000	80	0.9	X	3NC5 531		047	1	3 units	0.671
	600	1000		888000	150	0.9	D	3NC5 840		047	1	3 units	1.408
	630	800		888000	145	0.9	C	3NC5 841		047	1	3 units	1.185
	800	1000		1728000	170	0.9	D	3NC5 838		047	1	3 units	1.196
	710	900		620000	150	0.9	D	3NE6 437-7		047	1	3 units	1.168
	1250	600		2480000	210	0.9	D	3NE9 450-7		047	1	3 units	1.245
With M10 female thread at both ends for direct mounting on busbars, for air-cooled rectifiers in electrolysis systems													
--	710	900	gR	620000	150	0.9	D	3NE6 437		047	1	3 units	1.093
	850	600		2480000	85	1.0	D	3NE9 440-6		047	1	3 units	1.082
	900	900	aR	1920000	170	0.9	C	3NE6 444		047	1	3 units	1.175
	1250	600		2480000	210	0.9	D	3NE9 450		047	1	3 units	1.114
Fuse with installation holder for SITOR 6QG10 thyristor sets													
--	200	1000	aR	44000	50	0.85	D	3NE3 525-5		047	1	2 units	0.744
	450			395000	90	0.85	D	3NE3 535-5		047	1	2 units	0.746
Fuse with installation holder for SITOR 6QG11 thyristor sets													
--	50	1000	gR	1100	20	0.85	C	3NE4 117-5		047	1	2 units	0.303
	100		aR	7400	35	0.85	B	3NE4 121-5		047	1	2 units	0.309
	170		aR	60500	43	0.85	B	3NE4 146-5		047	1	2 units	0.311
Fuse female thread at both ends for SITOR 6QG12 thyristor sets													
--	250	800	aR	29700	105	0.85	▶	3NE4 327-6B		047	1	3 units	0.692
	315			60700	120	0.85	▶	3NE4 330-6B		047	1	3 units	0.688
	450			191000	140	0.85	▶	3NE4 333-6B		047	1	3 units	0.690
	500			276000	155	0.85	▶	3NE4 334-6B		047	1	3 units	0.688
	710			923000	155	0.95	▶	3NE4 337-6		047	1	3 units	0.689
With M12 female thread at both ends for direct mounting on busbars for railway supply rectifiers													
--	250	680	aR	635000	25	0.9	D	3NC7 327-2		047	1	3 units	0.725
	350			1430000	32	0.9	D	3NC7 331-2		047	1	3 units	0.740

* You can order this quantity or a multiple thereof.

BETA Protecting SITOR Semiconductor Fuses

SITOR, cylindrical fuse design

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Overview

SITOR cylindrical fuses protect power semiconductors from the effects of short-circuits because the super quick disconnect characteristic is far quicker than that of conventional fuses. They protect expensive devices and system components such as solid-state contactors, electronic relays (solid state), converters with fuses in the input and in the DC link, UPS systems and soft starters for motors up to 100 A.

The cylindrical design is approved for industrial applications. The cylindrical fuse links comply with IEC 60269.

Cylindrical fuse holders also comply with IEC 60269 and UL 512. The cylindrical fuse holders for 10 x 38 mm and 14 x 51 mm have been tested and approved as fuse switch disconnectors and the cylindrical fuse holders for 22 x 58 mm as fuse disconnectors according to the switching device standard IEC 60947-3. The utilization category and the tested current and voltage values are specified in the Table "Technical Specifications" (Catalog ET B1, edition 2008).

The cylindrical fuse holders have been specially developed for the application of SITOR fuse links with regard to heat tolerance and heat dissipation and are therefore not recommended for standard applications.

Cylindrical fuse bases do not offer the same comprehensive touch protection as the fuse holders, but have better heat dissipation. The single-pole cylindrical fuse bases for 14 x 51 mm and 22 x 58 mm allow modular expansion to multipole bases.

Benefits

- Cylindrical fuses have an extremely compact design and a correspondingly small footprint
- The cylindrical fuses have IEC and UL approval and are suitable for universal use worldwide.
- The use of SITOR cylindrical fuses in the cylindrical fuse holders and bases has been tested with regard to heat dissipation and maximum current loading. This makes planning and dimensioning easier and prevents consequential damage.
- The use of fuse holders as switch disconnectors expands the area of application of these devices and increases operating safety.

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BETA Protecting SITOR Semiconductor Fuses

SITOR, cylindrical fuse design

Selection and ordering data

Size	I_e	U_e	Breaking I^2t value	Power loss	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
mm x mm	A	V AC/ V DC	A ² s	W							
Cylindrical fuse links											
Operational class aR											
	10 x 38	3	600/400	8	1.2	A	3NC1 003	047	1	10 units	0.009
		6		20	1.5	▶	3NC1 006	047	1	10 units	0.009
		8		30	2	B	3NC1 008	047	1	10 units	0.009
		10		60	2.5	▶	3NC1 010	047	1	10 units	0.009
		12		110	3	B	3NC1 012	047	1	10 units	0.009
		16		150	3.5	▶	3NC1 016	047	1	10 units	0.009
		20		200	4.8	▶	3NC1 020	047	1	10 units	0.009
		25		250	6	▶	3NC1 025	047	1	10 units	0.009
		32		500	7.5	▶	3NC1 032	047	1	10 units	0.009
	14 x 51	1	660/700	1.2	5	B	3NC1 401	047	1	10 units	0.020
		2		10	3	▶	3NC1 402	047	1	10 units	0.020
		3		15	2.5	B	3NC1 403	047	1	10 units	0.020
		4		25	3	▶	3NC1 404	047	1	10 units	0.020
		5	690/700	9	1.5	B	3NC1 405	047	1	10 units	0.020
		6		12	1.5	▶	3NC1 406	047	1	10 units	0.020
		10		20	4	▶	3NC1 410	047	1	10 units	0.020
		15		75	5.5	▶	3NC1 415	047	1	10 units	0.020
		20		120	6	▶	3NC1 420	047	1	10 units	0.020
		25		250	7	▶	3NC1 425	047	1	10 units	0.020
		30		300	9	B	3NC1 430	047	1	10 units	0.020
		32		700	7.6	▶	3NC1 432	047	1	10 units	0.021
		40		900	8	▶	3NC1 440	047	1	10 units	0.021
		50		1800	9	▶	3NC1 450	047	1	10 units	0.021
	22 x 58	20	690/700	220	4.6	B	3NC2 220	047	1	5 units	0.056
		25		300	5.6	B	3NC2 225	047	1	5 units	0.056
		32		450	7	B	3NC2 232	047	1	5 units	0.056
		40		700	8.5	B	3NC2 240	047	1	5 units	0.056
		50		1350	9.5	▶	3NC2 250	047	1	5 units	0.056
		63		2600	11	▶	3NC2 263	047	1	5 units	0.056
		80		5500	13.5	▶	3NC2 280	047	1	5 units	0.057
		100	600/700	8000	16	▶	3NC2 200	047	1	5 units	0.057
Cylindrical fuse links with striking pin											
Operational class aR											
	14 x 51	10	690/700	90	4	B	3NC1 410-5	047	1	10 units	0.020
		15		100	5.5	B	3NC1 415-5	047	1	10 units	0.020
		20		500	6	B	3NC1 420-5	047	1	10 units	0.020
		25		400	7	C	3NC1 425-5	047	1	10 units	0.020
		30		500	9	C	3NC1 430-5	047	1	10 units	0.020
		32		600	7.6	B	3NC1 432-5	047	1	10 units	0.020
		40		900	8	B	3NC1 440-5	047	1	10 units	0.020
		50		2000	9	B	3NC1 450-5	047	1	10 units	0.020
	22 x 58	20	690/700	240	5	C	3NC2 220-5	047	1	10 units	0.056
		25		350	6	C	3NC2 225-5	047	1	5 units	0.056
		32		500	8	B	3NC2 232-5	047	1	5 units	0.056
		40		800	9	B	3NC2 240-5	047	1	5 units	0.056
		50		1500	9.5	B	3NC2 250-5	047	1	5 units	0.056
		63		3000	11	B	3NC2 263-5	047	1	5 units	0.056
		80		6000	13.5	B	3NC2 280-5	047	1	5 units	0.057
	22 x 58	100	600/700	8500	16	B	3NC2 200-5	047	1	5 units	0.057

* You can order this quantity or a multiple thereof.

BETA Protecting SITOR Semiconductor Fuses

SITOR, cylindrical fuse design

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	Size	Version	Rated voltage	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	mm x mm		V AC							
Cylindrical fuse holders										
Can be used as fuse switch disconnectors ¹⁾										
	10 x 38	1P	690	▶	3NC1 091		047	1	12 units	0.065
		2P		▶	3NC1 092		047	1	6 units	0.131
		3P		▶	3NC1 093		047	1	4 units	0.197
	14 x 51	1P		▶	3NC1 491		047	1	6 units	0.125
		2P		▶	3NC1 492		047	1	3 units	0.233
		3P		B	3NC1 493		047	1	2 units	0.350
	22 x 58	1P		▶	3NC2 291		047	1	1 unit	0.193
		2P		▶	3NC2 292		047	1	3 units	0.381
		3P		B	3NC2 293		047	1	2 units	0.584
Cylindrical fuse holders										
Can be used as fuse switch disconnectors, with signaling switches for fuse links with striking pin ¹⁾										
	14 x 51	1P	690	B	3NC1 491-5		047	1	6 units	0.125
	22 x 58	1P		B	3NC2 291-5		047	1	6 units	0.193
Cylindrical fuse bases										
	10 x 38	1P	600	B	3NC1 038-1		047	1	10 units	0.042
		2P		C	3NC1 038-2		047	1	8 units	0.077
		3P		B	3NC1 038-3		047	1	6 units	0.113
	14 x 51	1P	690	B	3NC1 451-1		047	1	3 units	0.120
	22 x 58	1P		B	3NC2 258-1		047	1	3 units	0.238
Cylindrical fuse clips										
For fuses 10 x 38										
				C	3NC1 038		047	1	20 units	0.002
For fuses 14 x 51										
				B	3NC1 451		047	1	20 units	0.005
Fuse tongs										
	10 x 38,			B	3NC1 000		047	1	1 unit	0.069
	14 x 51,									
	22 x 58									

¹⁾ Please observe the utilization category and current / voltage values specified in the "Technical specifications" table in ET B1 2008, chapter "SITOR, cylindrical fuse design".

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BETA Protecting SITOR Semiconductor Fuses

SILIZED, NEOZED and DIAZED design

Overview

SILIZED fuses protect power semiconductors from the effects of short-circuits because the super quick disconnect characteristic is far quicker than that of conventional fuses.

They protect expensive devices and system components such as solid-state contactors, static relays, converters with fuses in the input and in the DC link, UPS systems and soft starters for motors up to 100 A.

The SILIZED fuse links have a higher power loss than standard fuse links. It is therefore important to take into account the maximum permissible power dissipation of the fuse base.

The DIAZED screw adapter DII for 25 A is used for the 30 A fuse link.

Benefits

- SILIZED fuses have an extremely compact design. This means they have a very small footprint - particularly the NEOZED version.
- The rugged and well-known DIAZED design complies with IEC 60269-3. It is globally renowned and can be used in many countries.
- A huge range of fuse bases and accessories are available for the NEOZED and DIAZED versions of the SILIZED fuses. This increases the application options in many devices.

Selection and ordering data

	Size	I_e	U_e	Breaking I^2t value	Power loss	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	A		V AC/ V DC	A ² s	W							
SILIZED fuse links, NEOZED design												
Operational class gR												
	D01	10	400/250	73	6.9	B	5SE1 310		016	1	10 units	0.006
		16		120	6.2	B	5SE1 316		016	1	10 units	0.007
	D02	20		190	8.1	B	5SE1 320		016	1	10 units	0.012
		25		215	8.2	B	5SE1 325		016	1	10 units	0.012
		35		470	16.7	B	5SE1 335		016	1	10 units	0.012
		50		1960	12.0	B	5SE1 350		016	1	10 units	0.013
		63		4230	15.5	B	5SE1 363		016	1	10 units	0.014
SILIZED fuse links, DIAZED design												
Operational class gR												
	DII	16	500/500	60	12.1	A	5SD4 20		016	1	5 units	0.028
		20		139	12.3	A	5SD4 30		016	1	5 units	0.029
		25		205	12.5	A	5SD4 40		016	1	5 units	0.031
		30		310	13.5	A	5SD4 80		016	1	5 units	0.031
	DIII	35		539	14.8	A	5SD4 50		016	1	5 units	0.050
		50		1250	18.5	A	5SD4 60		016	1	5 units	0.051
		63		1890	28	A	5SD4 70		016	1	5 units	0.054
	DIV	80		4200	34.3	B	5SD5 10		016	1	3 units	0.110
		100		8450	41.5	B	5SD5 20		016	1	3 units	0.110

* You can order this quantity or a multiple thereof.

BETA Protecting SR60 Busbar Systems

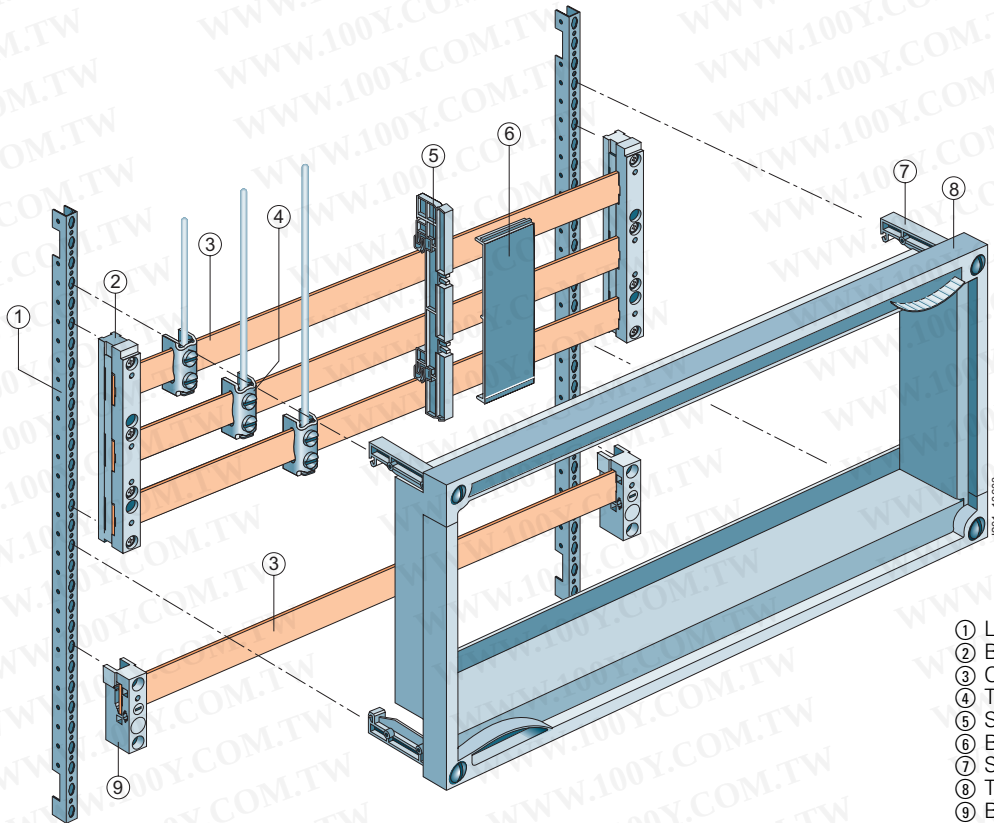
Distribution board components

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Overview

The use of busbar systems with their versatile rail-adaptable connection, switching and installation devices is an ideal and cost-effective electrotechnical enhancement of modern distribution

boards due to their small footprint, compact design and quick assembly contacts. Mounting is implemented on longitudinal stays. The busbar spacing is 60 mm.



- ① Longitudinal stays
- ② Busbar supports, 3-phase
- ③ Cu busbars
- ④ Terminals
- ⑤ Supports for blanking covers
- ⑥ Blanking covers
- ⑦ Supports
- ⑧ Touch protection covers
- ⑨ Busbar supports, 1-phase

Benefits

- Only a few distribution board components are required to ensure the integration of busbars in the distribution board. This saves time and space.
- The touch protection cover is sealable as standard and is quick and easy to attach to the supports thanks to the use of quick-release locking technology.

Selection and ordering data

	Dimensions	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	mm							
Longitudinal stays								
One longitudinal stay per busbar support is required for mounting the busbar supports in the unequipped distribution boards 1 set = 2 stays								
	Height							
	600	A	8GK4 851-4KK00			1	1 set	1.000
	750	A	8GK4 851-5KK00			1	1 set	1.300
	900	A	8GK4 851-6KK00			1	1 set	1.500
	1050	A	8GK4 851-7KK00			1	1 set	1.800
	1200	A	8GK4 851-8KK00			1	1 set	2.080
	1350	A	8GK4 852-8KK00			1	1 set	2.340

* You can order this quantity or a multiple thereof.

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BETA Protecting SR60 Busbar Systems

Distribution board components

	Dimensions mm	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	Busbar supports for SR60 busbar systems For busbars with a thickness of 5 or 10 mm and a busbar height of 12, 15, 20, 25 or 30 mm, for mounting on longitudinal stays, with fixing screws 3-phase		B	8GK9 711-0KK03		1	1 unit	1.100
	N/PE busbar supports for flat copper profiles Busbars with a thickness of 5 mm Width 12, 15, 20, 25, 30 mm Busbars with a thickness of 10 mm Width 12, 15, 20, 25, 30 mm 1-phase		A	5SH3 506		1	1 unit	0.060
	Cu busbars							
	Cu cross-section							
	12 x 5 mm, current strength 250 A	Length						
		250	A	8GK9 731-0KK10		1	5 units	0.100
		500	A	8GK9 731-0KK20		1	5 units	0.330
		750	A	8GK9 731-0KK30		1	5 units	0.500
		1000	A	8GK9 731-0KK40		1	5 units	0.660
		1250	A	8GK9 731-0KK50		1	5 units	0.830
	20 x 5 mm, current strength 320 A	250	A	8GK9 733-0KK10		1	5 units	0.290
		500	A	8GK9 733-0KK20		1	5 units	0.570
		750	A	8GK9 733-0KK30		1	5 units	0.850
		1000	C	8GK9 733-0KK40		1	5 units	1.120
		1250	C	8GK9 733-0KK50		1	5 units	1.470
	30 x 5 mm, current strength 450 A	250	A	8GK9 735-0KK10		1	5 units	0.400
		500	A	8GK9 735-0KK20		1	5 units	0.750
		750	A	8GK9 735-0KK30		1	5 units	1.460
		1000	C	8GK9 735-0KK40		1	5 units	2.170
		1250	C	8GK9 735-0KK50		1	5 units	2.880
	30 x 10 mm, current strength 630 A	250	C	8GK9 736-0KK10		1	5 units	0.750
		500	C	8GK9 736-0KK20		1	5 units	1.720
		750	C	8GK9 736-0KK30		1	5 units	2.600
		1000	C	8GK9 736-0KK40		1	5 units	3.400
		1250	C	8GK9 736-0KK50		1	5 units	4.600
	Cover profiles for busbars							
	Busbar thickness 5 mm	Width 12 mm	A	8US19 22-2CA00		1	10 units	0.200
		Width 15, 20, 25, 30 mm	A	8US19 22-2AA00		1	10 units	0.156
	Busbar thickness 10 mm	Width 12, 15, 20, 25, 30 mm	A	8US19 22-2BA00		1	10 units	0.105
	Infeeds Connecting terminal plates with cover							
	3-phase, 200 mm long, 54 mm wide	Conductor cross-section						
		6 ... 50 mm ²	A	8US19 21-1BA00		1	1 unit	0.397
	3-phase, 200 mm long, 81 mm wide	35 ... 120 mm ²	A	8US19 21-1AA00		1	1 unit	0.607
	3-phase (Fig. without cover)	150 ... 300 mm ²	C	5SH3 535		1	1 unit	1.657

* You can order this quantity or a multiple thereof.

BETA Protecting SR60 Busbar Systems

Distribution board components

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	Dimensions	Conductor cross-section mm ²	Tightening torque Nm	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	Terminals for circular conductors									
	Busbar thickness 5 mm									
		1.5 ... 16		▶	8US19 21-2AA00			100	100 units	0.100
		4 ... 35		▶	8US19 21-2AB00			1	50 units	0.046
		16 ... 70		▶	8US19 21-2AD00			1	50 units	0.072
		16 ... 120		▶	8US19 21-2AC00			1	50 units	0.107
	Busbar thickness 10 mm									
		1.5 ... 16		▶	8US19 21-2BA00			1	100 units	0.020
		4 ... 35		▶	8US19 21-2BB00			1	50 units	0.040
		16 ... 70		▶	8US19 21-2BD00			1	50 units	0.070
		16 ... 120		▶	8US19 21-2BC00			1	50 units	0.100
	Terminals for one busbar									
	Busbar thickness 5 mm									
	Width 12 mm	1.5 ... 16	1.4	A	8JH4 102			1	10 units	0.010
		16 ... 35	3.0	A	8JH4 104			1	10 units	0.030
		16 ... 70	6.0	A	8JH4 105			1	10 units	0.030
		16 ... 95 25 ... 120	10.0 10.0	A A	8JH4 106 8JK3 061			1 1	10 units 10 units	0.070 0.090
	Extension terminals									
	For 12 mm × 5 mm busbar (busbar not included in scope of supply) (1 set = 2 units)									
			6.0	A	8JK3 201			1	10 sets	0.100
	Terminals for circular conductors									
	20 × 5 mm to 30 × 10 mm									
		150 ... 240		A	8US19 41-2BB00			1	6 units	0.307

* You can order this quantity or a multiple thereof.

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Distribution board components

	Dimensions (H x W) mm	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	Assembly kits							
	Comprising touch protection cover and 4 supports							
	Cutout width							
	For 3-phase busbar systems							
	216 mm	300 x 250	C	8GK4 801-2KK13		1	1 unit	0.500
	466 mm	300 x 500	C	8GK4 801-2KK23		1	1 unit	0.700
	716 mm	300 x 750	C	8GK4 801-2KK33		1	1 unit	0.900
	216 mm	450 x 250	C	8GK4 801-3KK13		1	1 unit	0.650
	466 mm	450 x 500	C	8GK4 801-3KK23		1	1 unit	0.900
	716 mm	450 x 750	C	8GK4 801-3KK33		1	1 unit	1.150
	Supports for blanking covers							
	For blanking cover mounting on busbar (2 units required for each section of blanking cover)							
			B	5SH3 536		1	4 units	0.040
	Blanking covers							
	Mounting on 5SH3 536 support for blanking covers							
	Length 1000 mm	Height 202 mm	A	5SH3 537		1	2 units	0.075

More information

Material properties

Busbar supports and bus-mounting fuse bases (see the chapter section "Built-in components") are manufactured from glass-fiber reinforced, thermoplastic polyester (color RAL 7035, light gray). The material ensures excellent mechanical, chemical and electrical properties. Furthermore, the material has an extremely low flammability and meets the requirements of UL 94 V0. This satisfies the load requirements of the busbar supports at rated operational voltage 500 V and rated currents at 200 A to 630 A, as well as the rated short-circuit strength 50 kA.

Ambient temperatures

When dimensioning the busbars based on rated currents, the ambient temperature and the Cu busbar temperature must also be taken into account.

The location of the busbar system and its ability to dissipate heat through convection also play a key role in this calculation. Because conditions can vary for each distribution board, the values in the following table serve as a guideline only. However, they must be applied to the entire busbar length.

Continuous currents depending on the Cu power rail dimensions and Cu busbar temperatures at 35 °C ambient temperature

Cu busbar dimensions H x D mm x mm	Uninterrupted current for open busbar run ambient temperature 35 °C A	Uninterrupted current of fuse link g/L/gG operational class A
12 x 5	200	200
12 x 10	360	315
15 x 5	250	250
15 x 10	447	400
20 x 5	320	315
20 x 10	520	500
25 x 5	400	400
25 x 10	580	500
30 x 5	447	400
30 x 10	630	630

As far as other types of upstream protective devices are concerned, please observe the permissible uninterrupted current of the busbar.

BETA Protecting SR60 Busbar Systems

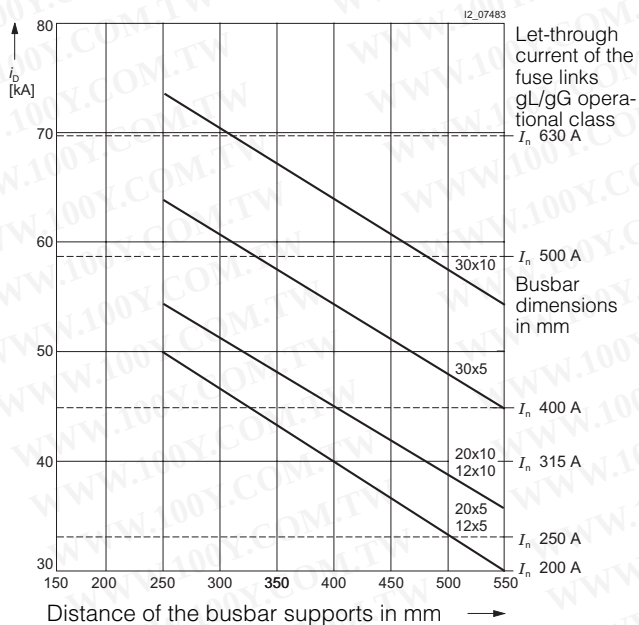
Distribution board components

Dynamic rated short-circuit strength

The electrodynamic load of the busbars depends on the level of short-circuit current, the length of the busbar section through which the current flows, the support spacing of the busbar supports and, of course, on the distance between the busbars themselves. Because, for example, an LV HRC fuse is connected upstream to the busbars in the protective device, the let-through current i_D is the maximum current to flow through this protective device. The value i_D depends on the maximum system short-circuit current and the current-limiting action of the protective device used. The permissible let-through values of the protective equipment are specified by the manufacturers in the form of a current limitation diagram as a function of the so-called prospective short-circuit current (r.m.s. value of the possible rated short-circuit current for the system).

You will find the current limiting characteristics of the fuse links in the catalog ET B1 Add-On • 2008, Characteristic curves.

Diagram of the dynamic short-circuit strength of the busbars



i_D : Let-through values (kA) of the LV HRC fuse links, gL/gG operational class with rated current 200 A to 630 A for a prospective short-circuit current $I_p = 120$ kA.

Number of built-in components that can be mounted

Height	Width	Cutout width	D02/63 A 5SH5 241	D02/63 A 5SH5 242	D02/63 A 5SH5 243	DII/25 A 5SH2 042	DII/25 A 5SH2 043	DIII/63 A 5SH2 242	DIII/63 A 5SH2 243	NH00 (3NP4 076)	5SG7 230 bus- mounting fuse switch disconnectors D02
mm	mm	mm	(27 mm width)	(36 mm width)	(54 mm width)	(42 mm width)	(84 mm width)	(57 mm width)	(114 mm width)	(108 mm width)	(26.8 mm width)
300	250	216	8	6	4	5	2	3	1	1	8
	500	466	17	12	8	11	5	8	4	4	17
	750	716	26	19	13	17	8	12	6	6	26
450	250	216	8	6	4	5	2	3	1	1	8
	500	466	17	12	8	11	5	8	4	4	17
	750	715	26	19	13	17	8	12	6	6	26

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For busbar supports with busbars of 12 x 5 mm to 20 x 5 mm, the distance between the holders of the support spacing should be adapted to suit the bars in the distribution board and, if possible, should not exceed 250 mm. When using busbars of 25 x 5 mm, 30 x 5 mm, 12 x 10 mm to 30 x 10 mm, this distance can be increased up to 500 mm. In the case of larger distances, subcarriers must be fitted as increased support spacing reduces the dynamic stability.

It is essential to ensure that the permissible current carrying capacity of the individual busbars is not exceeded. A center infeed is required in the limit range. However, the infeed can also be carried out from both sides of the busbar ends.

Planning dimensions

	Width mm	MW
NEOZED bus-mounting bases D02		
Cover	27	1.5
Cover, extra wide	36	2.0
Cover, double width	54	3.0
DIAZED bus-mounting bases DII		
Cover	42	2.3
Cover, double width	84	4.7
DIAZED bus-mounting bases DIII		
Cover	57	3.2
Cover, double width	114	6.3
NEOZED bus-mounting switch disconnectors	27	1.5
Fuse switch disconnectors LV HRC, size 00	108	6

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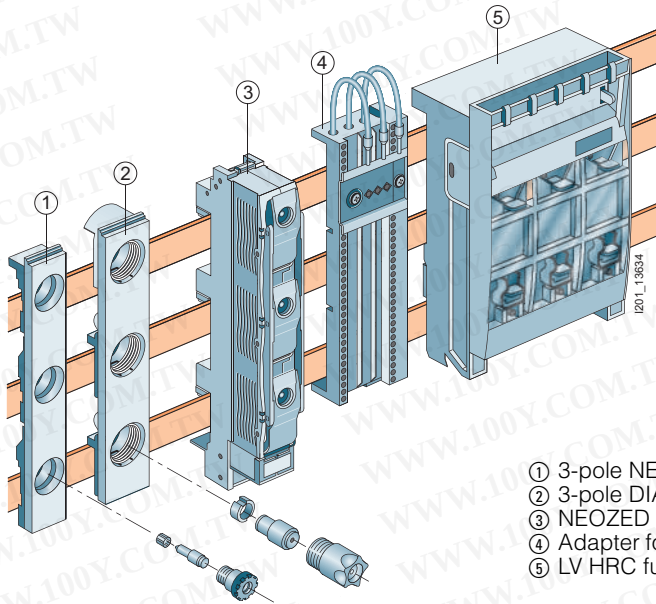
BETA Protecting SR60 Busbar Systems

Built-in components

Overview

Rail-adaptable built-in components, such as NEOZED and DIAZED bus-mounting bases, adapters for modular installation devices, LV HRC fuse switch disconnectors and NEOZED bus-mounting

fuse switch disconnectors are made of glass-fiber reinforced, thermoplastic polyester. The material ensures required mechanical, chemical and electrical properties.



- ① 3-pole NEOZED bus-mounting base
- ② 3-pole DIAZED bus-mounting base
- ③ NEOZED bus-mounting switch disconnectors
- ④ Adapter for modular installation devices according to DIN 43880
- ⑤ LV HRC fuse switch disconnectors

Benefits

- The direct contact of the rail-adaptable switching and installation devices on the Cu busbars reduces distribution panels and assembly times.
- The transfer resistance of the connections are drastically reduced, when compared to conventional installation. This prevents unnecessary waste heat.

Selection and ordering data

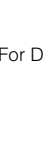
Size	Rated current	Rated voltage	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
A	V									
NEOZED SR60 bus-mounting bases, 3P										
For busbar thickness 5 mm										
For NEOZED adapter sleeves										
D02	63	400		A	5SG6 202		016	1	4 units	0.141
Extra wide, with clearance for wiring										
D02	63	400		B	5SG6 204		016	1	4 units	0.154
For bar thickness 10 mm										
NEOZED adapter sleeves										
D02	63	400		B	5SG6 203		016	1	4 units	0.138
Extra wide, with clearance for wiring										
D02	63	400		B	5SG6 205		016	1	4 units	0.149

For NEOZED screw caps, adapter sleeves and fuse links, see section "Low-voltage fuse systems, NEOZED fuse systems".

BETA Protecting SR60 Busbar Systems

Built-in components

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	Size	Rated current	Rated voltage	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	A		V								
	NEOZED SR60 covers										
	D02			1.5	A	5SH5 241		016	1	4 units	0.026
	Extra wide, with clearance for wiring										
	D02			2	B	5SH5 242		016	1	4 units	0.031
	With double width for more clearance for wiring										
	D02			3	C	5SH5 243		016	1	4 units	0.040
DIAZED SR60 bus-mounting bases, 3P											
	For bar thickness 5 mm For use of DIAZED SR60 adapter rings										
	DII 25	500		B		5SF6 014		016	1	2 units	0.230
	DIII 63	690		B		5SF6 214		016	1	2 units	0.318
	For use of DIAZED screw adapters										
	DII 25	500		B		5SF6 015		016	1	2 units	0.222
	DIII 63	690		B		5SF6 215		016	1	2 units	0.310
	For bar thickness 10 mm For use of DIAZED SR60 adapter rings										
	DII 25	500		B		5SF6 016		016	1	2 units	0.233
	DIII 63	690		B		5SF6 216		016	1	2 units	0.316
	For use of DIAZED screw adapters										
	DII 25	500		B		5SF6 017		016	1	2 units	0.220
	DIII 63	690		B		5SF6 217		016	1	2 units	0.328
DIAZED SR60 covers											
	DII			2.3	B	5SH2 042		016	1	2 units	0.050
	DIII			4.7	B	5SH2 242		016	1	2 units	0.061
	With double width for more clearance for wiring										
	DII			4.7	C	5SH2 043		016	1	2 units	0.084
	DIII			6.3	C	5SH2 243		016	1	2 units	0.106
DIAZED SR60 adapter rings											
	Only for DIAZED SR60 bus-mounting bases										
	DII 2			C		5SH3 071		016	1	10 units	0.005
	4			C		5SH3 072		016	1	10 units	0.005
	6			C		5SH3 073		016	1	10 units	0.005
	10			C		5SH3 074		016	1	10 units	0.005
	16			C		5SH3 075		016	1	10 units	0.005
	20			C		5SH3 076		016	1	10 units	0.004
	DIII 2			C		5SH3 078		016	1	10 units	0.008
	4			C		5SH3 080		016	1	10 units	0.008
	6			C		5SH3 081		016	1	10 units	0.008
	10			C		5SH3 082		016	1	10 units	0.008
	16			C		5SH3 083		016	1	10 units	0.008
	20			C		5SH3 084		016	1	10 units	0.006
	25			C		5SH3 085		016	1	10 units	0.007
	35			C		5SH3 086		016	1	10 units	0.006
	50			C		5SH3 087		016	1	10 units	0.005

For DIAZED screw caps, screw adapters and fuse links, see section "Low-voltage fuse systems, DIAZED fuse systems".

* You can order this quantity or a multiple thereof.

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BETA Protecting SR60 Busbar Systems

Built-in components

	Rated current		Rated voltage		MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	A	V										
	NEOZED SR60 bus-mounting switch disconnectors, 3P For bar thickness 5 and 10 mm For 3-phase busbar system											
	D02	63	400	1.5	A	5SG7 230		016	1	1 unit	0.700	
	SR60 bus-mounting disconnectors, 3P For 10 x 38 mm cylindrical fuses For bar thickness 5 and 10 mm For 3-phase busbar system											
	--	32	690		A	3NW7 430		018	1	1 unit	0.700	
	Auxiliary switches 1 CO											
					C	5SH5 525		016	1	1 unit	0.007	
	Side modules For NEOZED SR60 bus-mounting switch disconnectors For better heat dissipation											
				0.5	C	5SH5 526		016	1	5 units	0.060	
	Reducers For NEOZED fuse links D01 In the SR60 bus-mounting switch disconnectors											
					C	5SH5 527		016	1	10 units	0.003	
	SR60 LV HRC bus-mounting fuse bases, 3P Size 000 and 00 For bar thickness 5 and 10 mm For 3-phase busbar system With cover, connections at top Connection terminals up to 70 mm ² With saddle-type terminals											
			690		A	3NH4 052		014	1	4 units	0.641	
	Rated current	Conductor cross-section, max.	For LV HRC fuse links	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg		
	A	mm ²	Size									
	Fuse switch disconnectors for SR60 busbars Climate-proof, rated operational voltage 690 V AC Delivered without LV HRC fuse links											
	100	35	000 and 00	A	3NP40 16-1CK01		103	1	1 unit	0.916		
				▶	3NP40 16-1CJ01		103	1	1 unit	0.950		
	160	70	000 and 00	A	3NP40 76-1CE01		103	1	1 unit	1.203		
				▶	3NP40 76-1CF01		103	1	1 unit	1.201		
	160	70 (SIGUT terminal)	000 and 00	B	3NP40 76-1CK01		103	1	1 unit	1.295		
				▶	3NP40 76-1CJ01		103	1	1 unit	1.249		
	250	50	0 and 1	▶	3NP42 76-1CG01		103	1	1 unit	3.713		
	400	240	2	▶	3NP43 76-1CG01		103	1	1 unit	5.440		
	630	240	3	▶	3NP44 76-1CG01		103	1	1 unit	7.688		
Touch protection covers				B	3NY7 600		103	1	1 unit	0.095		
For additional busbar adapters, see chapter "SIVACON Power Distribution Boards, Busway and Cubicle Systems". For additional fuse switch disconnectors, see section "Low-Voltage Fuse Systems".												

BETA Protecting SR60 Busbar Systems

Built-in components

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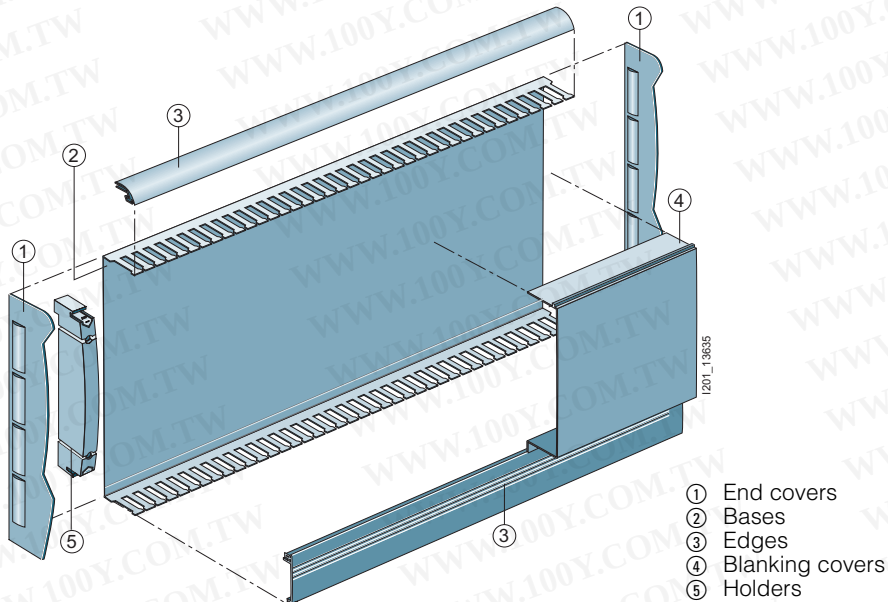
	Number of mounting rails (35 mm)	Rated current A	Conductor cross-section mm ²	Adapter L x W	U _n V	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	Device adapters with top terminals											
	1	25	4	182 x 45	690	A	8US12 50-5RM07		143	1	1 unit	0.174
	Device adapters with top connecting cables											
	1	25	4	182 x 45	690	▶	8US12 51-5DM07		143	1	1 unit	0.183
	1	56	10	182 x 55	690	▶	8US12 61-5FM08		143	1	1 unit	0.263
	Device adapters with Cage Clamp terminals											
	1	12.5	2.5	182 x 45	690	▶	8US12 51-5CM47		143	1	1 unit	0.190
	Device holders for lateral mounting on device adapters of the same length											
	1	--	--	182 x 45	--	▶	8US12 50-5AM00		143	1	1 unit	0.158
	Connecting plates (2 units needed for mounting)											
	--	--	--	--	--	▶	8US19 98-1AA00		143	100	100 units	0.100
	Side modules for extending busbar adapters and device holders of the same length											
	--	--	--	182 x 13.5	--	A	8US19 98-2BM00		143	1	4 units	0.036

* You can order this quantity or a multiple thereof.

Overview

The mounting components enable an enclosed design on a mounting plate.

The base, the holders for the edges, the edges, the supports for blanking covers with blanking cover and the end covers form a complete enclosure with degree of protection IP20.



- ① End covers
- ② Bases
- ③ Edges
- ④ Blanking covers
- ⑤ Holders

Benefits

- The mounting components enable a closed design for the SR 60 busbar system in any switchgear assembly.
- The touch protection rating to IP20 means that operation is safe, even for non-specialists.

BETA Protecting SR60 Busbar Systems

Mounting components

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Selection and ordering data

	Length	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx
	mm							kg
Bases								
	Height							
	230 mm, for 3 busbars 290 mm, for 4 busbars	1100	B C	5SH3 526 5SH3 527	016 016	1 1	1 unit 2 units	1.100 1.300
Blanking covers								
	Mounting on 5SH3 536 support for blanking covers, height 202 mm	1000	A	5SH3 537	016	1	2 units	0.075
Edges								
	17 x 36 mm, for 3 busbars 77 x 36 mm, for 4 busbars	1100	B C	5SH3 528 5SH3 530	016 016	1 1	2 units 2 units	0.311 0.583
Partitions								
	For additional touch protection on systems without bases, slotted 17 x 86 mm	1100	C	5SH3 531	016	1	2 units	0.365
End covers								
	For covering free busbar ends L1-L3, for 8US19 23-2AA01 or 8US19 23-3AA01		A	8US19 22-1AC00	143	1	10 units	0.020
	L1-L3 + PE/N, 4P, for 8US19 23-4AA00 (1 pack = 2 units, (1x right, 1x left))		A	8US19 22-1AB00	143	1	1 unit	0.055
	For 5SH3 532 holders Height 230 mm (3P)		B	5SH3 533	016	1	4 units	0.038
	Height 290 mm (4P or 3P + wiring duct), (1 pack = 2 units (1x right, 1x left))		C	5SH3 534	016	1	4 units	0.048
	8US19 22-1AC00 5SH3 534							
Holders								
	For 5SH3 528, 5SH3 530 and 5SH3 531 edges and partitions		B	5SH3 532	016	1	2 units	0.106
Supports for blanking covers								
	For blanking cover mounting on busbar (2 units required for each section of blanking cover)		B	5SH3 536	016	1	4 units	0.040
Busbar supports								
	for SR60 busbar systems For busbars with a bar thickness of 5 or 10 mm and a busbar height of 12, 15, 20, 25 or 30 mm							
	L1-L3, 3P, with outer mounting		A	8US19 23-2AA01	143	1	10 units	0.200
	L1-L3, 3P, with inner mounting		A	8US19 23-3AA01	143	1	10 units	0.200
	L1-L3 + PE/N, 4P, with inner mounting		A	8US19 23-4AA00	143	1	10 units	0.269

* You can order this quantity or a multiple thereof.

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BETA Protecting Overvoltage Protection Devices

Lightning arresters, type 1

Overview

Lightning arresters, type 1 include the power lines in the lightning protection equipotential bonding, thus protecting low-voltage load systems against overvoltages and high surge currents caused by direct or indirect lightning strikes.

The protection level is lowered to 1.5 kV by the lightning arrester, which reduces the load on the plant if a lightning strike is discharged.

The lightning arresters are enclosed and suitable for mounting in the precounter sector.

The lightning arresters are tested using wave-shaped lightning impulses, 25/100 kA with waveform 10/350 µs.

Benefits

- Lightning arresters, type 1 require no decoupling reactors in the system. As the result, system design is simplified and less space needed. No time is wasted on planning the installation of decoupling reactors. This considerably cuts costs.
- The rated arrester voltage is a uniform 350 V AC. This increases safety in systems with extended voltage overshoots.
- All the lightning arresters have a mechanical fault indication that needs no additional energy. This means they can be installed in the precounter area, where electrical plants can be protected particularly effectively.
- The protective blocks are plug-in versions. Replacing the protective blocks involves no installation work. When taking insulation measurements, the protective modules are simply removed, no need to disconnect the power supply.
- All lightning arresters, type 1 have a remote signaling contact that is inserted into the device and takes up no space. Remote signaling in case of failure is always possible.

Selection and ordering data

	Discharge capacity kA	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Lightning arresters 2P For TN-S and TT systems With remote signaling	100	4	B	5SD7 412-1		008	1	1 unit	0.732
3P For TN-C systems With remote signaling	75	6	A	5SD7 413-1		008	1	1 unit	0.909
4P For TN-S and TT systems With remote signaling	100	8	A	5SD7 414-1		008	1	1 unit	1.310



* You can order this quantity or a multiple thereof.

BETA Protecting Overvoltage Protection Devices

Combination surge arresters, type 1 and type 2

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Overview

Type 1 and 2 combination surge arresters include the system cables in the equipotential bonding, which protects the low-voltage systems against the overvoltages and high currents that can be triggered by direct lightning strikes. They are tested by wave-shaped lightning impulse currents 25 ... 100 kA with waveform 10/350 s.

The protection level is lowered to 1.5 kV by the combination surge arrester, which reduces the load on the plant if a lightning strike is discharged.

A thermal isolating arrester disconnecter offers a high degree of protection against overload during runtime.

Benefits

- Combination surge arresters, type 1 and 2 require no decoupling reactors in the system. As the result, system design is simplified and less space needed. No time is wasted on planning the installation of decoupling reactors. This considerably cuts costs.
- The rated arrester voltage is a uniform 350 V AC. This increases safety in systems with extended voltage overshoots.
- All combination surge arresters are fitted with a mechanical fault indication, which does not require an extra power supply.
- The protective modules are plug-in versions. Replacing the protective blocks involves no installation work. When taking insulation measurements, the protective modules are simply removed, no need to disconnect the combination surge arresters from the power supply.
- The same type 2, class II overvoltage protective modules are used as for the slim version of the surge arresters (5SD7 42.). This simplifies stock keeping
- All combination surge arresters have a remote signaling contact that is inserted into the device and takes up no space. Remote signaling in case of failure is always possible.

Selection and ordering data

		Discharge capacity kA	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Combination surge arresters										
  	2P For TN-S and TT systems With remote signaling	100	4	B	5SD7 442-1		008	1	1 unit	0.770
	3P For TN-C systems With remote signaling	75	6	A	5SD7 443-1		008	1	1 unit	1.040
	4P For TN-S and TT systems With remote signaling	100	8	A	5SD7 444-1		008	1	1 unit	1.430

* You can order this quantity or a multiple thereof.

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

BETA Protecting Overvoltage Protection Devices

Surge arresters, type 2

Overview

Surge arresters, type 2 are used after lightning arresters, type 1 in main distribution boards or sub-distribution boards. They protect low-voltage systems against transient overvoltages.

The surge arrester, type 2 lowers the protection level from 1.4 to 1.5 kV. A remote signaling contact shows whether a protective module has been disconnected from the network by the thermal arrester disconnecter or whether it is just not plugged in.

Benefits

- Surge arresters, type 2 require no decoupling reactors in the system. As the result, system design is simplified and less space needed. No time is wasted on planning the installation of decoupling reactors. This considerably cuts costs.
- The rated arrester voltage is a uniform 350 V AC. This increases safety in systems with extended voltage overshoots.
- All surge arresters, type 2 are fitted with a mechanical fault indication, which does not require an extra power supply
- A thermal isolating arrester installed in each device offers a high degree of protection during runtime. In the event of overload, the surge arrester is disconnected from the mains - the plant continues running.
- The protective modules are plug-in versions. Replacing the protective blocks involves no installation work. When taking insulation measurements, the protective modules are simply removed, no need to disconnect the surge arrester from the power supply.
- Surge arresters, type 2 are available with a remote signaling contact, which is integrated in the device and does not require any further space in the distribution board.

Selection and ordering data

	Rated arrester voltage U_C	Discharge surge current I_n/I_{max} kA	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	Surge arresters, wide design									
	1P, compact (non plug-in)									
	Without remote signaling	350	20/40	1	A	5SD7 466-0	008	1	1 unit	0.114
	With remote signaling	350	20/40	1	A	5SD7 466-1	008	1	1 unit	0.120
	1P, plug-in									
	Without remote signaling	350	20/40	1	A	5SD7 461-0	008	1	1 unit	0.130
	With remote signaling	350	20/40	1	A	5SD7 461-1	008	1	1 unit	0.134
	N/PE, 1P, plug-in									
	Without remote signaling	350	20/40	1	A	5SD7 481-0	008	1	1 unit	0.131

* You can order this quantity or a multiple thereof.

BETA Protecting Overvoltage Protection Devices

Surge arresters, type 2

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	Rated arrester voltage U_C	Discharge surge current I_n/I_{max} kA	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	350	20/40	3	A	5SD7 463-0		008	1	1 unit	0.393
	350	20/40	3	B	5SD7 463-1		008	1	1 unit	0.403
	350	20/40	4	A	5SD7 464-0		008	1	1 unit	0.433
	350	20/40	4	A	5SD7 464-1		008	1	1 unit	0.443

	Discharge surge current I_n/I_{max} kA	Width mm (MW)	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
Surge arresters, narrow design 2P For TN-S and TT systems 	20/40	24 (1 1/3)	A	5SD7 422-0		008	1	1 unit	0.220
	20/40	24 (1 1/3)	B	5SD7 422-1		008	1	1 unit	0.227
3P For TN-C systems 	20/40	36 (2)	A	5SD7 423-0		008	1	1 unit	0.320
	20/40	36 (2)	B	5SD7 423-1		008	1	1 unit	0.330
4P For TN-S and TT systems 	20/40	48 (2 2/3)	A	5SD7 424-0		008	1	1 unit	0.408
	20/40	48 (2 2/3)	A	5SD7 424-1		008	1	1 unit	0.416

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BETA Protecting Overvoltage Protection Devices

Surge arresters, type 3

Overview

Surge arresters, type 3 are installed after the surge arresters, type 2 in sub-distribution boards close to the loads in single or multiphase systems and further limit the overvoltage in order to protect the connected loads.

Surge arresters, type 3 in voltage versions 24, 60, 120 and 240 V can be used in both AC and DC systems.

Benefits

- The protective modules are plug-in versions. No mounting work required when replacing the protective modules
- All surge arresters, type 3 are fitted with a mechanical fault indication, which does not require an extra power supply
- Remote signaling is performed by an optocoupler with an open collector output in case of failure. The enables fast detection of faults.

Selection and ordering data

	Rated voltage U_N	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V AC/V DC								
Surge arresters, plug-in									
	2P								
	With remote signaling	24	1	A	5SD7 432-4	008	1	1 unit	0.027
		60	1	B	5SD7 432-3	008	1	1 unit	0.026
		120	1	B	5SD7 432-2	008	1	1 unit	0.081
		230	1	A	5SD7 432-1	008	1	1 unit	0.071
	4P								
	With remote signaling	230/400	2	A	5SD7 434-1	008	1	1 unit	0.056

* You can order this quantity or a multiple thereof.

BETA Protecting Overvoltage Protection Devices

Accessories for surge arresters

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	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
		Through-type terminals For simple wiring in various wiring versions					
	B	5SD7 490-1		008	1	1 unit	0.191
		Male connectors For lightning arresters, type 1, 5SD7 41.					
	B	• Lightning arresters L/N I_{fi} 50 kA _{rms} for 5SD7 41. lightning arresters	5SD7 418-1	008	1	1 unit	0.240
	B	• Lightning arresters N/PE For 5SD7 41. lightning arresters and 5SD7 44. combination surge arresters	5SD7 418-0	008	1	1 unit	0.240
		For combination surge arresters, type 1, 5SD7 44.					
	B	• Lightning arresters L/N I_{fi} 25 kA _{rms}	5SD7 448-1	008	1	1 unit	0.129
	B	• Lightning arresters N/PE For 5SD7 41. lightning arresters and 5SD7 44. combination surge arresters	5SD7 418-0	008	1	1 unit	0.240
		For 5SD7 42. surge arresters, type 2, and 5SD7 44. combination surge arresters					
	B	• Surge arresters L/N For 5SD7 42. surge arresters and 5SD7 44. combination surge arresters	5SD7 428-1	008	1	1 unit	0.052
	B	• Surge arresters N/PE	5SD7 428-0	008	1	1 unit	0.049
		For 5SD7 46. combination surge arresters, type 2					
	B	• Surge arresters L/N	5SD7 468-1	008	1	1 unit	0.051
	B	• Surge arresters N/PE	5SD7 488-0	008	1	1 unit	0.040
		Male connectors for surge arresters, type 3, wide design, 2P, 5SD7 432-.					
	B	• Rated voltage $U_N = 230$ V	5SD7 437-1	008	1	1 unit	0.028
	B	• Rated voltage $U_N = 120$ V	5SD7 437-2	008	1	1 unit	0.027
	B	• Rated voltage $U_N = 60$ V	5SD7 437-3	008	1	1 unit	0.026
	B	• Rated voltage $U_N = 24$ V	5SD7 437-4	008	1	1 unit	0.027
5SD7 437-1		Male connectors for 5SD7 434-1 surge arresters, type 3, wide design, 4P	5SD7 438-1	008	1	1 unit	0.162

* You can order this quantity or a multiple thereof.

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BETA Protecting Overvoltage Protection Devices

Overvoltage protection adapters

Overview

Overvoltage protection adapters, type 3 for insertion in a (SCHUKO) socket outlet protect electronic loads against overvoltages from main power supplies.

Such devices are exposed to overvoltages not only from the power line. Telecommunication devices for TAE, ISDN/RDS and RJ12 connection, televisions or radios with aerial connection or satellite radio connection are all connected to a further power supply system which can also pass overvoltages on to devices.

Benefits

- All overvoltage protection adapters, type 3 are fitted with an LED as a visual status and fault indication
- There is permanent thermal monitoring of the protection circuit. Hence the user is always assured of safe operation.

Selection and ordering data

	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
 Overvoltage protection adapters for power line protection	B	5SD7 435-0		008	1	1 unit	0.115
 For telecommunication devices/TAE	B	5SD7 435-2		008	1	1 unit	0.156
 For ISDN/RDSI	B	5SD7 435-3		008	1	1 unit	0.156
 For TV/radio	B	5SD7 435-5		008	1	1 unit	0.156
 For telecommunication devices/RJ12	B	5SD7 435-6		008	1	1 unit	0.144
 For TV/SAT installations	B	5SD7 435-7		008	1	1 unit	0.156

* You can order this quantity or a multiple thereof.

BETA Switching

Socket Outlets

Socket outlets

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Overview

The socket outlets for mounting in distribution boards to DIN 43880 and on standard mounting rails to DIN 60715 have since become standard in modern switchgear assemblies/distribution boards. They are used for tasks such as the connection of plug-in communication devices in communication distribution boards, in switchgear assemblies for maintenance purposes or in private plants for the occasional use of devices with heavy starting and separate fusing. The socket outlet range complies with a number of different standards and is available according to the standards of the following countries: VDE for Germany, CEE7 for Belgium/France, CEI for Italy and UL for USA.

In distribution boards with 55 mm mounting depth the socket outlet can only be used without the hinged lid. The lids can be retrofitted on all devices.

To make installation easier, the terminals L, N and PE with touch protection are located on the side of the socket outlet.

In plant sections where equipment is still live, even after the main control switch has been disconnected, this must be indicated according to DIN VDE 0105-1 and IEC/EN 60204-1/ DIN VDE 0113-1. Yellow socket outlets are used for these applications.

Benefits

- Complete program according to VDE, UL, CEI and CEE for worldwide application.
- By pulling on the hinges, the hinged lid stays open at more than 180°. This facilitates manual insertion of plugs.

Selection and ordering data

	U_e	I_e	Conductor cross-sections mm ²	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V AC	A									
	(SCHUKO) socket outlets according to DIN VDE 0620-1										
	• Without hinged lid										
	230	16	6	2.5	▶	5TE6 800		027	1	1 unit	0.089
	(SCHUKO) socket outlets according to DIN VDE 0620-1										
	• With hinged lid										
	230	16	6	2.5	▶	5TE6 801		027	1	1 unit	0.094

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BETA Switching Socket Outlets

Socket outlets

	U_e V AC	I_e A	Conductor cross- section mm ²	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	230	16	6	2.5	▶	5TE6 810		027	1	1 unit	0.089
(SCHUKO) socket outlets according to DIN VDE 0620-1 • Without hinged lid, yellow RAL 1018											
	230	16	6	2.5	▶	5TE6 802		027	1	1 unit	0.094
Socket outlets according to CEI 23-50 • With hinged lid											
	230	16	6	2.5	▶	5TE6 803		027	1	1 unit	0.090
Socket outlets according to CEE 7 Standard sheet V • Without hinged lid, with grounding pin											
	125	15	6	2.5	▶	5TE6 804		027	1	1 unit	0.088
Socket outlets according to UL 498 • Without hinged lid											
				2.5	B	5TE9 120		027	1	1 unit	0.020
Hinged lids for 5TE6 socket outlets											

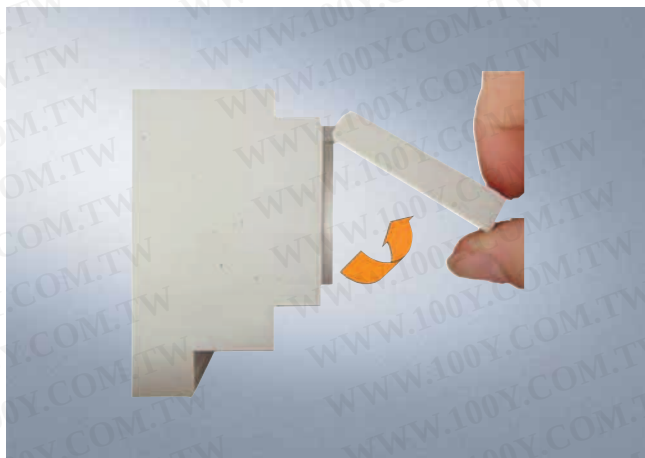
BETA Switching

Socket Outlets

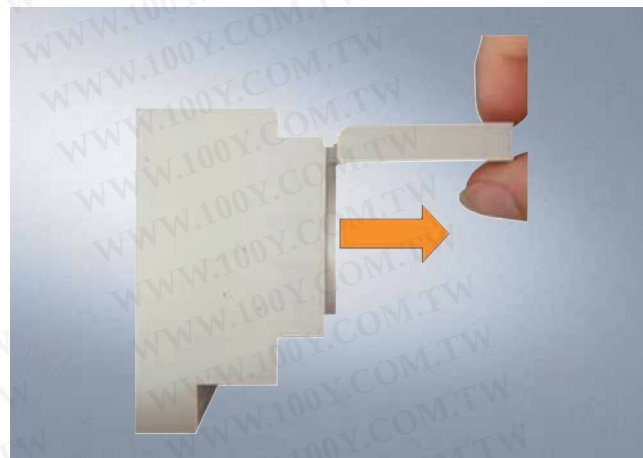
Socket outlets

More information

Hinged lid for simple application



The hinged lid can be opened at an angle greater than 180 °.



By pulling on the hinges, the covers stay open, which facilitates plugging in. The hinged lids can be retrofitted on all versions.



In order to make sure that it is possible to work on the distribution board in the event of a voltage failure, we recommend that the infeed socket outlet is fed using a short-circuit current proof cable installation and a separate fuse. The yellow socket outlet must be used for this purpose.

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BETA Measuring Three-Phase Measuring Devices

Multimeters

Overview

Multimeters are mainly used by switchgear engineers in power distribution boards for infeeds into buildings and plants. They replace the more common analog voltmeters and ammeters with measuring point changeover, as well as measuring devices for power outputs and power factor p.f.

The standard measured quantity to be indicated in the 5 display fields of the multimeter can be tailored to customer requirements. Versions for direct connection (63 A) or for transformers (/5 A) with adjustable transformer primary current from 5 to 5000 A, enable a wide range of application.

The green 7-segment displays for the measured values and the orange indicators of the units of measurement directly alongside the measured values make for easy reading.

Benefits

- Clear display of all necessary measured values
- All measured values can be read from a distance
- Customized setting of the measured quantities for the standard display
- Wide range of application thanks to flexible adaptation to measuring current transformers
- Detection of connection errors during start-up saves considerable time when trying to locate faults.
- Large, 11 mm high, green 7-segment displays for measured values makes for easy reading
- Indication of units of measurement directly alongside the related measured values provide a clear overview.

Selection and ordering data

	U_e	I_e	U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V AC	A AC	V DC								
Multimeters For the display of 23 electrical values, of which 5 values can be continuously displayed. For direct connection 3 x 230/400 63 230 6 B 7KT1 300 For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A 3 x 230/400 trans-former /5 230 6 B 7KT1 301 For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A, for front mounting 96 mm x 96 mm 3 x 230/400 trans-former /5 230 -- B 7KT1 302											
								027	1	1 unit	0.400
								027	1	1 unit	0.380
								027	1	1 unit	0.378

BETA Measuring Three-Phase Measuring Devices

Multimeters

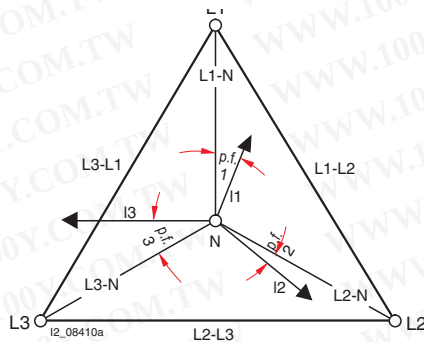
More information

Voltage measurement

The multimeter measures the delta voltages L1 against L2; L2 against L3 and L3 against L1 or the star voltages L1, L2, L3 against N.

ΣL symbol for the 3-phase system

This indicates that all physical units shown under this symbol are always 3 phase.



Readout data

You can continuously display 5 measured quantities from the following 23 options.

No.	Measured value	Display	Unit	Assignment
1	Active power	D1	W	L1
2	Voltage	D1	V	L1
3	Current	D1	A	L1
4	Apparent power	D1	VA	L1
5	p.f.	D1	p.f.	L1
6	Voltage	D1	V	L1 – L2
7	Active power	D2	W	L2
8	Voltage	D2	V	L2
9	Current	D2	A	L2
10	Apparent power	D2	VA	L2
11	p.f.	D2	p.f.	L2
12	Voltage	D2	V	L2 – L3
13	Active power	D3	W	L3
14	Voltage	D3	V	L3
15	Current	D3	A	L3
16	Apparent power	D3	VA	L3
17	p.f.	D3	p.f.	L3
18	Voltage	D3	V	L3 – L1
19	Active power	D1, D2, D3, D5	W	ΣL
20	Apparent power	D1, D2, D3, D5	VA	ΣL
21	Reactive power	D5	var	ΣL
22	Frequency	D4	Hz	ΣL
23	p.f.	D1, D2, D3, D4	p.f.	ΣL

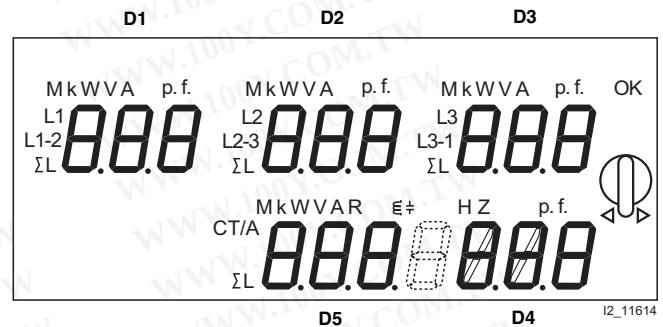
2 set values are also indicated:

24	Transformer setting	D5	CT/A	/5
25	Transformer setting		CT/A	5 ... 5000

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Display

The multimeters have a covered, brightly lit LED display. The measured values are indicated on an 11 mm high, green, 7-segment LED, the physical units are indicated by orange text abbreviations. Both colors are easier to recognize than the red LEDs used for conventional displays. Capacitive loads are automatically indicated by a capacitor symbol, inductive loads by a coil symbol – also in orange.



Matrix selection

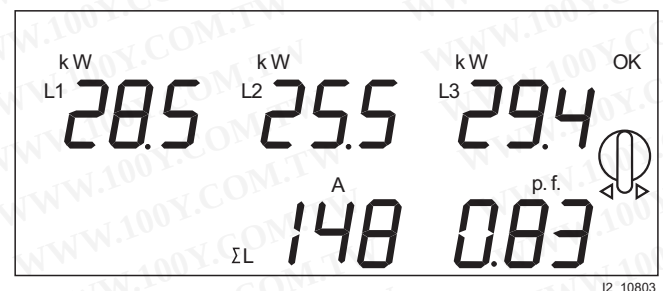
Conventional measuring instruments display voltages, currents, powers, etc. in a rigid sequence on several "screens". These multimeters allow users to define their own standard for measured quantities per display field, so that they can be implemented far more universally and flexibly.

A special feature is the analysis of the different loads on the phases. Phase displacement and unsymmetrical or unbalanced loads can cause partial overloads. These multimeters offer a range of different options for combining and assessing measured values.

The display fields are selected using rotary switches and the desired indications confirmed with OK. By making the horizontal selection e.g. W V A or p.f., and the vertical selection, e.g. L1, L1-L2 or ΣL, users can then define the desired measured quantities for this display field.

The vertical data on the display can be assigned to any measured value in the horizontal data. The letters M(ega) and k(ilo) are automatically assigned according to measuring range, i.e. measured value, e.g. kW or MW. Capacitive loads are automatically indicated by a capacitor, inductive loads by a coil.

The following diagram shows an example of what your matrix selection might look like.



I2_10803

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BETA Measuring Three-Phase Measuring Devices

Multicounters

Overview

Multicounters are mainly used by switchgear engineers in power distribution boards for infeeds into buildings and plants. They replace the more common analog voltmeters and ammeters with measuring point changeover, as well as measuring devices for power outputs and power factor p.f.

The standard measured quantity to be indicated in the 6 display fields of the multicounter can be tailored to customer requirements. The measured values of all measured quantities can also be displayed quickly and easily over the operator buttons. Versions for direct connection (63 A) or for transformers (/5 A) with adjustable transformer primary current from 5 to 5000 A, enable a wide range of application.

The green, eye-friendly 7-segment displays for the measured values and the orange indicators of the units of measurement directly alongside the measured values make for easy reading.

Benefits

- Clear display of all necessary measured values
- All measured values can be read from a distance
- Customized setting of the measured quantities for the standard display Fast display of all measured quantities over operator buttons
- Wide range of application thanks to flexible adaptation to measuring current transformers
- Detection of incorrect connections during installation
- Communication with LAN, Modbus or PROFIBUS DP enables integration in an energy management system
- Software package for data transmission over LAN and visualization of measurement data with Microsoft EXCEL enables implementation of customized solutions.

Selection and ordering data

	U_e	I_e	U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V AC	A AC	V DC								
Multicounters											
For the display of 35 electrical values, of which 5 or 6 values can be continuously displayed. For three-phase, 3/4-conductor connection, with S0 interface											
Without communication interface											
For direct connection											
	3 x	63	230	6	B	7KT1 310		027	1	1 unit	0.420
	230/400										
For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A											
	3 x	trans-	230	6	B	7KT1 311		027	1	1 unit	0.410
	230/400	former /5									
For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A, for front-panel mounting 96 mm x 96 mm											
	3 x	trans-	230	--	B	7KT1 312		027	1	1 unit	0.410
	230/400	former /5									
With RS 485 interface and RTU Modbus protocol or for connection to LAN networks over 7KT1 390 LAN coupler											
For direct connection											
	3 x	63	230	6	B	7KT1 340		027	1	1 unit	0.470
	230/400										
For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A											
	3 x	trans-	230	6	B	7KT1 341		027	1	1 unit	0.423
	230/400	former /5									
For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A, for front mounting 96 mm x 96 mm											
	3 x	trans-	230	--	B	7KT1 342		027	1	1 unit	0.397
	230/400	former /5									
With PROFIBUS DP V0 interface											
For direct connection											
	3 x	63	230	6	B	7KT1 350		027	1	1 unit	0.415
	230/400										
For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A											
	3 x	trans-	230	6	B	7KT1 351		027	1	1 unit	0.415
	230/400	former /5									
For transformer connection of 5 ... 5000 A, adjustable in 5 A increments, secondary current 5 A, for front mounting 96 mm x 96 mm											
	3 x	trans-	230	--	B	7KT1 352		027	1	1 unit	0.460
	230/400	former /5									

BETA Measuring Three-Phase Measuring Devices

Multicounters

More information

Communication interfaces

Multicounters with PROFIBUS interface

Multicounters are also available with PROFIBUS interface. In a PROFIBUS network, the multicounters act as PROFIBUS DP slave according to the usual standard V0 (cyclic communication only).

In a PROFIBUS network, several PROFIBUS slaves are always assigned to a single master. A PC with a PROFIBUS communication module or PLC, such as the PLCs of the SIMATIC range from Siemens, can be used as the master. The master communicates with the connected slaves cyclically at extremely brief intervals. The master sends the slaves a request message to which the slave replies with a response message. The communication frame of the message (e.g. number of send and receive bytes) is slave-specific and is defined in a standardized text file; the device data base file (DDBF). This DDBF file is read in by the software configuring tools of the various PROFIBUS masters, whereby the master knows which communication frame the respective slave requires.

In normal cyclic mode, the multicounter sends a response message in the specified communication frame in reply to the request message from the master. This communication frame contains all 35 measured quantities in encoded form as user data. The master receives the message, decodes it and then uses the measurement data for a range of tasks.

As well as the DDBF file, a detailed description of the communication and the configuration of the user data are also required for the configuration and implementation of a PROFIBUS network with multicounters. For more information please visit us on the Internet at: <http://www.siemens.com/beta>

Multicounters with Modbus interface

The Modbus RTU is a very common communications solution. It is a serial, asynchronous form of communication, which requires RS 485 networks as the hardware platform. RS 485 networks can be set up with 2-wire copper or optical fiber cables and, compared to the RS 232 serial interface, offer fast transmission rates.

In a Modbus network, each bus station has a bus address within the range from 1 to 255. All stations within a network must be set to the same transmission speed. We recommend transmission rates of 9600 or 19200 bit/s. The address and transmission rate can be set in the user menu of the multicounters.

In order to customize a Modbus installation, it is necessary to implement the appropriate software application for the master. This requires specific information about communication with multicounters. You will find further information on the Internet at <http://www.siemens.com/beta>

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Multicounters with LAN coupler on LAN

The 7KT1 390 LAN couplers support connection of up to ten 7KT1 34 multicounters to a LAN network. The LAN couplers and multicounters are interlinked over an RS 485 network. Setting the bus address in the 7KT1 34 multicounters to "0" specifies that it is operating in "LAN" mode. It is not necessary to set the transmission speed, as a fixed transmission rate is always used in this mode. It is also not necessary to set the address of the bus stations, as the LAN coupler automatically detects and identifies the multicounter connected.

The server components run on the PC in the background and handle the data transmission and storage of the most recent measured values from all the multicounters connected over one or more LAN couplers.

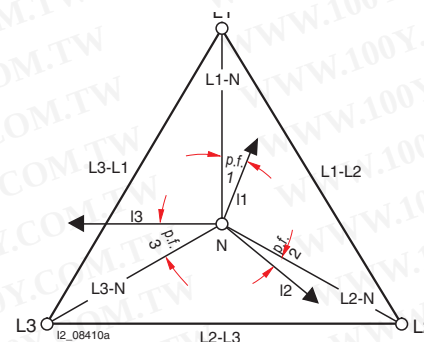
For more information on LAN operation and the MS Excel user interface, see 7KT1 390 LAN couplers on page 19/150 ff.

Voltage measurement

Depending on the selected connection type, the multicounter measures the delta voltages L1 against L2; L2 against L3 and L3 against L1 or the star voltages L1, L2, L3 against N.

ΔL symbol for the 3-phase system

This indicates that all physical units shown under this symbol are always 3 phase.



Temperature

The temperature information of the multicounter is not suitable for an exact measurement of the ambient temperature. The device does not have a temperature sensor. It is also not possible to connect an external temperature sensor.

The temperature information merely enables a rough estimate of the temperature conditions in the device interior and immediate vicinity.

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BETA Measuring Three-Phase Measuring Devices

Multicounters

Readout data

You can continuously display 6 measured quantities from the following 35 options.

No.	Measured value	Display	Unit	Assignment
1	Active power	D1	W	L1
2	Voltage	D1	V	L1
3	Current	D1	A	L1
4	Apparent power	D1	VA	L1
5	p.f.	D1	p.f.	L1
6	Voltage	D1	V	L1 – L2
7	Active power	D2	W	L2
8	Voltage	D2	V	L2
9	Current	D2	A	L2
10	Apparent power	D2	VA	L2
11	p.f.	D2	p.f.	L2
12	Voltage	D2	V	L2 – L3
13	Active power	D3	W	L3
14	Voltage	D3	V	L3
15	Current	D3	A	L3
16	Apparent power	D3	VA	L3
17	p.f.	D3	p.f.	L3
18	Voltage	D3	V	L3 – L1
19	Temperature	D6	°C	–
20	Current, N-conductor	D6	A	ΣL
21	Active power	D4	W	ΣL →
22	Reactive power	D5	var	ΣL →
23	Apparent power	D5	var	ΣL ←
24	Frequency	D6	Hz	ΣL
25	p.f.	D1, D2, D3, D6	p.f.	ΣL
26	Active energy rate 1	D4	Wh	ΣL →
27	Active energy rate 2	D4	Wh	ΣL →
28	Active energy rate 1	D4	Wh	ΣL ←
29	Active energy rate 2	D4	Wh	ΣL ←
30	Reactive energy rate 1	D5	varh	ΣL, ind.
31	Reactive energy rate 2	D5	varh	ΣL, ind.
32	Reactive energy rate 1	D5	varh	ΣL, cap.
33	Reactive energy rate 2	D5	varh	ΣL, cap.
34	Apparent energy rate 1	D5	VAh	ΣL
35	Apparent energy rate 2	D5	VAh	ΣL

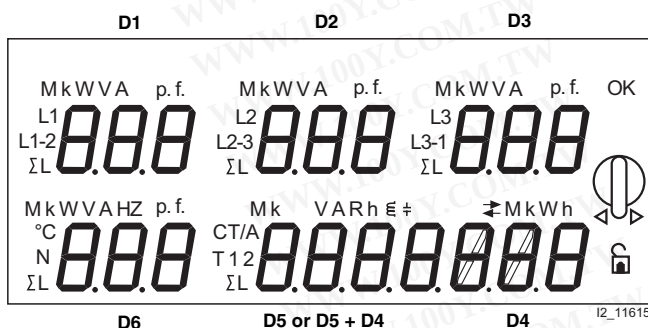
2 set values are also indicated:

36	Transformer setting	D4	CT/A	/5
37	Transformer setting	D5	CT/A	5 ... 5000

All the measured values are transmitted via LAN.

Display

The multicounters have a covered, brightly lit LED display. The measured values are indicated on an 11-mm high, green, 7-segment LED, the physical units are indicated by orange text abbreviations. Both colors are easier to recognize than the red LEDs used for conventional displays. Capacitive loads are automatically indicated by a capacitor symbol, inductive loads by a coil symbol – also in orange.



Matrix selection

Conventional measuring instruments display voltages, currents, powers, etc. in a rigid sequence on several "screens". These multicounters allow users to define their own standard for measured quantities per display field, thus allowing more universal and flexible application.

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

The display fields are selected using rotary switches and the desired indications confirmed with OK. By making the horizontal selection e.g. W V A or p.f. and the vertical selection, e.g. L1, L1–L2 or ΣL, users can then define the desired measured quantities for this display field.

The vertical data on the display can be assigned to any measured value in the horizontal data. The letters M(ega) and k(ilo) are automatically assigned according to measuring range, i.e. measured value, e.g. kW or MW. Capacitive loads are automatically indicated by a capacitor, inductive loads by a coil.

The following diagram is an example of what your matrix selection might look like:



I2_10799

BETA Measuring Three-Phase Measuring Devices

LAN couplers

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Overview

A LAN coupler supports the worldwide data recall of up to 10 multimeters and E-counters over a LAN link to the Internet.

The LAN coupler is used in conjunction with multimeters and E-counters. Up to 10 devices can be linked with a LAN coupler. In turn, the LAN coupler is connected to a LAN.

Data communication between the LAN coupler and the PC takes place using the TCP/IP protocol.

Using the software supplied with the LAN coupler, the measured data from several measuring devices can be called up over several LAN couplers for saving on a PC. The measured data are displayed by a macro based on MS Excel.

Benefits

- Integration of measuring devices in industrial or office communication
- Display of measured data using the standard software MS Excel
- Use of existing local networks (LAN) for transmitting the measured data
- TCP/IP data protocol enables a wide range of applications
- Limit value signals with time information for all measured values increases your plant's safety
- Open software structure enables the implementation of customized solutions for measured data indication and analysis
- Worldwide communication of the measured values via LAN
- One LAN coupler for 10 devices

Selection and ordering data

U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
V AC								
LAN couplers For connection of up to 10 devices over RS485 Software tools included for: • Installation and start-up • Data transmission and storage • MS Excel macro for visualization of measurement data								
230	4	B	7KT1 390		027	1	1 unit	0.232



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BETA Measuring Three-Phase Measuring Devices

LAN couplers

More information

Connection of the LAN coupler to a LAN

Each station in a LAN must be assigned its own IP address. On delivery, or after a reset, the LAN coupler has a standard IP address. The new IP address must be set in the LAN coupler during start-up. To do this, the LAN coupler must be directly connected to a PC using a so-called "cross-over" cable. This is a network cable in which the transmit and receive wires are cross-connected. This creates a small LAN with 2 stations, PC and LAN coupler can communicate with each other directly. The supplied LAN coupler configuration tool must be installed on the PC. This direct connection can then be used to set a new IP address in the LAN coupler, as well as other network parameters, such as subnet mask and default gateway. The LAN coupler must then be connected to the target network as communication is subsequently only possible with the new settings.

Connection of measuring devices to the LAN coupler

E-counters and multimeters are connected to the LAN couplers over their communication interface. The network is an RS 485 network in which devices are connected over a shielded 2-wire cable. When using Modbus, the device address and transmission rate must be set in the multimeters. This is not necessary if using the multimeters and E-counters over the LAN coupler, as the LAN coupler automatically detects and identifies any connected E-counters and multimeters. You can now use the LAN coupler configuration tool (over the LAN network) to tell the LAN coupler from which device you want to retrieve the measurement data.

The LAN coupler carries out a so-called "polling" during runtime. This cyclically retrieves the most recently gathered measurement data from the measuring devices and buffers them in the LAN coupler. This can then be called up at any time over the LAN.

Data transmission from LAN coupler to PC

This data transmission is PC-controlled. A software tool runs in the background on the PC and uses the network to cyclically retrieve any measurement data from all available LAN couplers and save it to the hard disk.

Software tool

The supplied software tool has the following functions:

- Background transmission of measurement data from multimeters and E-counters and a number of LAN couplers
- Full display of device measurement data through a macro based on MS Excel
- Adjustable limit value signals for measured quantities
- Limit violations are signaled with time stamp.

You will find further information on Modbus operation on the Internet at: <http://www.siemens.com/beta>

Display of measurement data on the PC

A Visual Basic macro for MS Excel is supplied with the LAN coupler for the display of measurement data on a PC. Among other things, this software tool lets you display all 35 measurement data of a 7KT1 34 multimeter on a single panel. You can then select the various measuring devices you want to display from a small list box. The software also lets you set alarm limits for up to 10 measured values of a multimeter.

If a measured value exceeds or falls below the specified limits, the relevant indication is output, complete with time stamp from the PC clock.

The screenshot shows a software interface for configuring and monitoring a Siemens multimeter (MUTIMETER_02) via a LAN coupler. The interface includes a table of measurement data with columns for measurement type, unit, address, value, and alarm status.

Measurement	Unit	Address	Value	Alarm
Wirkleistung	W	L1	156430	
Spannung	V	L1	225	
Strom	A	L1	685	
Scheinleistung	VA	L1	167844	
cos φ	cos φ	L1	0.86	
Spannung	V	L1-L2	405	
Wirkleistung	W	L2	154423	
Spannung	V	L2	226	
Strom	A	L2	799	
Scheinleistung	VA	L2	189924	
cos φ	cos φ	L2	11.90	
Spannung	V	L2-L3	12487	
Wirkleistung	W	L3	45	
Spannung	V	L3	1907	
Strom	A	L3	16	
Scheinleistung	VA	L3	219	
cos φ	cos φ	L3	47.00	
Spannung	V	L3-L1	405	
Wirkleistung	W	L1	2221	
Scheinleistung	VA	L1	11	
Blindleistung	VAR	L1	2714	
Frequenz	Hz	L1	50	
cos φ	cos φ	L1	1791.90	

Display of measurement data of a multimeter

Simultaneous display of measurement data on more than one PC

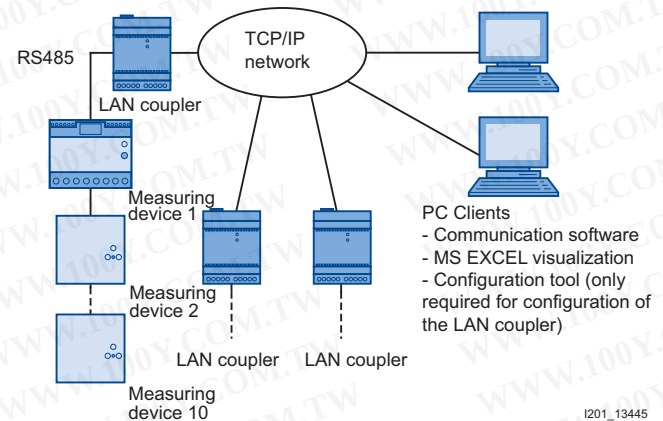
The software supplied with the LAN coupler supports display of measurement data on any number of PCs connected to the network over a client-server architecture.

A PC acts as the server, similar to an Intranet or Internet server. This PC runs the software components that retrieve the measurement data from the LAN coupler and save it to hard disk. The MS Excel macro can be used to visualize the measurement data on both the server PC and the clients.

Other client PCs can access the data pool of the server PC to visualize the measurement data.

Open software architecture

The architecture of the software tool is open and can be customized to suit user requirements. The MS Excel macros are freely accessible and can also be customized by the user.



Block diagram of a system

1201_13445

BETA Measuring Three-Phase Measuring Devices

E-counters

Overview

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

Cost pressures are growing, particularly in industry. Product operating times are reduced and manufacturing facilities must be retrofitted more frequently. The load levels of the distribution boards during operation are therefore constantly under observation in order to avoid peak loads in a timely manner or to perform retrofitting.

The versions with LAN interface are used for consumption analysis and minimization of operating costs in industrial plants and office buildings. This allows a readout to be performed easily using an existing LAN network.

The devices indicate 6 measured values on an LCD display: active energy rate 1 and rate 2, reactive energy rate 1 and rate 2, active power and reactive power. This means that the current load of a distribution board can be read out.

Benefits

- Easy read out and visualization of measured data using standard MS Excel software means solutions can be tailored to user requirements
- The devices indicate the instantaneous power in addition to the consumption, providing an overview of plant capacity utilization at all times and saving additional measuring devices into the bargain
- For practically unlimited use: E-counters for direct connection, 63 A for small plants and up to 5000 A with transformer for large plants.

Function

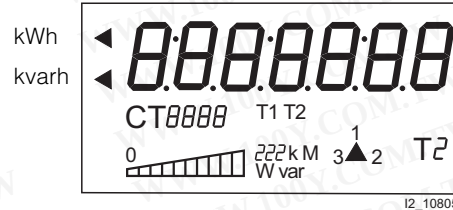
E-counters with LAN coupler on LAN

The 7KT1 390 LAN couplers support connection of up to ten 7KT1 52 E-counters to a LAN network.

For more information on LAN operation and the MS Excel user interface, see 7KT1 390 LAN couplers on page 19/150 ff.

Display

The display of the E-counters comprises a 7-digit 7-segment display for measured quantities and additional function indications:



		Unit	ID
Active energy	Rate 1	kWh	Arrow and T1
	Rate 2	kWh	Arrow and T2
Reactive energy	Rate 1	kvarh	Arrow and T1
	Rate 2	kvarh	Arrow and T2
Active power		kW	Utilization and instantaneous value
Reactive power		kvar	Utilization and instantaneous value
Phase-sequence indication	1-2-3		Flashing triangle next to left-hand phase sequence
Transformer primary current	5 ... 5000 A		CT (current transformer)

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BETA Measuring Three-Phase Measuring Devices

E-counters

Selection and ordering data

	U_e	I_e	U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V AC	A AC	V DC								
	E-counters for active energy										
	With S0 interface, for 3-phase, 4-wire connection										
	For direct connection, single rate										
	3 × 230/400	63	230	6	B	7KT1 500		027	1	1 unit	0.396
	For transformer connection, single rate										
	3 × 230/400	trans-former /5	230	6	B	7KT1 501		027	1	1 unit	0.396
	For direct connection, double rate, can be reset										
	3 × 230/400	63	230	6	B	7KT1 510		027	1	1 unit	0.396
	For transformer connection, double rate, can be reset										
	3 × 230/400	trans-former /5	230	6	B	7KT1 511		027	1	1 unit	0.396
E-counters for active and reactive energy											
With S0 interface, for 3-phase, 4-wire connection											
For direct connection, single rate, can be reset											
3 × 230/400	63	230	6	B	7KT1 502		027	1	1 unit	0.396	
For transformer connection, single rate, can be reset											
3 × 230/400	trans-former /5	230	6	B	7KT1 503		027	1	1 unit	0.396	
For direct connection, double rate, can be reset											
3 × 230/400	63	230	6	B	7KT1 512		027	1	1 unit	0.396	
For transformer connection, double rate, can be reset											
3 × 230/400	trans-former /5	230	6	B	7KT1 513		027	1	1 unit	0.396	
E-counters for active and reactive energy											
For connection to LAN networks with 7KT1 390 LAN server, for 3 phases, 4-conductor connection											
For direct connection, double rate, can be reset											
3 × 230/400	63	230	6	B	7KT1 520		027	1	1 unit	0.450	
For transformer connection, double rate, can be reset											
3 × 230/400	trans-former /5	230	6	B	7KT1 521		027	1	1 unit	0.388	

BETA Measuring Three-Phase Measuring Devices

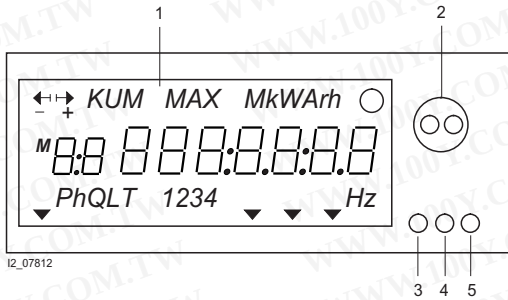
E-counters instabus KNX EIB

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Overview

E-counters are used for the measurement of kWh in single- and three-phase systems, e.g. in industrial plants, offices and apartments in apartment houses. They help minimize operating costs and facilitate cost assignment.

E-counter with LCD display



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

Readout data for consumption analysis

Manual readout

The above data can be called up and manually displayed directly on the E-counter by pressing buttons 5) Set/Reset button and 3) Display button. The E-counter calculates the consumption costs when the price per kWh has been entered. The ability to input the device number facilitates assignment to a number system and cost assignment to one of the various cost centers.

Readout software for the IR measuring head

The data of the above table are read into a PC using the magnetic IR measuring head and stored in an ASCII file according to IEC 61107.

This ASCII file can be further processed in an Excel or Access file.

The product range can be run under Windows 95, 98 and Windows NT.

Readout data on the LCD or over IR interface

				7KT1 162 7KT1 165
Active energy	rate 1/2	kWh	x/x	
Price per kWh, adjustable	rate 1/2	Cost/kWh	x/x	
Total costs	rate 1/2	Total cost	x/x	
Reactive energy	rate 1/2	kvarh	x/x	
Apparent energy	rate 1/2	kVAh	--	
Maximum active power	rate 1/2	kW	--	
Integration periods, adjustable	rate 1/2	min	--	
Instantaneous active power	sum total phase L1/L2/L3	kW kW	x x	
Instantaneous voltage	phase L1/L2/L3	V	--	
Instantaneous imported kWh	sum total phase L1/L2/L3	A A	-- --	
Instantaneous current factor (only with transformer counters)		FA I	x	
Instantaneous reactive power	sum total phase L1/L2/L3	kvar kvar	-- --	
Instantaneous apparent power	sum total phase L1/L2/L3	kVA kVA	-- --	
Instantaneous p.f.	phase L1/L2/L3	p.f.	--	
Instantaneous frequency		Hz	--	
Device number, adjustable		No.	x	

x = data are displayed

Data transmission instabus KNX EIB

The 7KT1 162 and 7KT1 165 counters are intended for the following data transmission:

Active energy (kWh) rate 1
 Active energy (kWh) rate 2
 Device number
 Active power (kW) phase L1
 Active power (kW) phase L2
 Active power (kW) phase L3

Visualization software "Recording of consumption data and maximum time analysis" (available soon)

The software can read out and assign counter readings, and prepare the data for accounting.

The system does not differentiate between counters that are read out manually or in online operation.

A maximum time analysis can be carried out over several days on the PC in online operation. Graphical analyses are also available.

Energy flow direction

Counting is only carried out in the specified energy flow direction. For counters with transformer connection, the energy flow direction of the transformer (primary and secondary) as well as the correct assignment of the voltage and current paths must be taken into account.

Benefits

- The devices have accuracy class 2. This enables extremely precise energy measurements.
- The large LCD for the reading out of all data locally makes for easy reading.

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BETA Measuring Three-Phase Measuring Devices

E-counters instabus KNX EIB
Current transformers

Selection and ordering data

	I_e	U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	A AC	V DC								
 7KT1 162	E-counters for 3/4-wire connection, with LCD, with IR interface for double rate Direct connection, with 2 S0 pulse outputs and <i>instabus</i> KNX EIB interface Active and reactive energy									
	10 (63)	3 × 230/400	6	B	7KT1 162		027	1	1 unit	0.450
	Transformer connection, with 2 S0 pulse outputs and <i>instabus</i> KNX EIB interface Active and reactive energy									
	Transformers/5(6)	3 × 230/400	6	B	7KT1 165		027	1	1 unit	0.390
 IR measuring heads for 7KT1 16	IR measuring heads for 7KT1 16 For reading out data according to IEC 61107 with 9-pin COM connector and readout software									
				C	7KT9 030		027	1	1 unit	0.170

Overview

This 3-phase current transformer can be used in distribution boards according to DIN 43880. The measuring leads are routed vertically through the standard mounting rail. With this type of construction, the current transformer is suitable for supply systems or outgoing cables in connection with the installation of a 5TE8 switch or a 5TE1 disconnector as the primary connecting leads do not have to be interrupted. The current transformer is designed for cables of up to 13 mm in diameter, e.g. H07V-R with 50 mm² conductor cross-section.

Benefits

- The current transformer has an accuracy class 1 according to EN 60044-1. This value is better than most measuring devices in this area of application.
- The versions designed for a transformer ratio of 60/5 A, 100/5 A and 150/5 A enable an even broader range of applications.

Selection and ordering data

	U_e	I_{sec}	I_e	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V AC	A AC	A AC								
 Current transformers											
	720	5	3 × 60	6	B	7KT1 200		027	1	1 unit	0.460
			3 × 100		B	7KT1 201		027	1	1 unit	0.460
			3 × 150		B	7KT1 202		027	1	1 unit	0.465

BETA Measuring Three-Phase Measuring Devices

Measuring selector switches

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Overview

Measuring selector switches are used as CO contacts of the phases for voltages and currents in 3-phase systems for voltmeters and ammeters.

The design of these switches is adapted to match the modular installation devices. They support use according to EN 60947-3.

Benefits

- The devices have a rated insulation voltage of 660 V. This permits use in many systems.

Selection and ordering data

	U_e	I_e	U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V AC	A AC	V DC								
Voltmeter selector switches											
	400	12	6	3	A	7KT9 010		027	1	1 unit	0.110
Ammeter selector switches for transformer operation											
	400	12	6	3	A	7KT9 011		027	1	1 unit	0.110

7KT9 010

7KT9 011

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BETA Measuring

Single-Phase Measuring Devices

E-counters
 Digital measuring devices

Overview

E-counters serve the measurement of kWh in single-phase systems, e.g. in industrial plants, offices and apartments in apartment houses.

Benefits

- The accuracy class 2 according to IEC 62053-11 ensures that you always have the correct measured value
- The drum-type register in size 4 x 1.2 mm enables easy reading
- The short-circuit resistant pulse output protects the device if it is assembled incorrectly.

Selection and ordering data

U_c	I_e	U_e	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M) Unit(s)	PS* Unit(s)	Weight per P. unit approx kg
V AC	A AC	V AC								
E-counters for active energy With 7-digit drum-type register 4 × 20 mm, with S0 interface, for single-phase operation Direct connection, single rate										
230	63	230	2	B	7KT1 140		027	1	1 unit	0.400



7KT1 140

Overview

These devices for measuring voltages and currents can be used for monitoring input and output currents or device currents in electric plants. They are suitable for direct connection in a single-phase system or for three-phase systems when used in conjunction with a measuring selector switch.

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

Benefits

- The ammeters have 14 measuring ranges from 0 ... 20 A to 0 ... 999 A, which can be set using a coding switch. This ensures universal application.

Selection and ordering data

U_e	I_e	U_c	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M) Unit(s)	PS* Unit(s)	Weight per P. unit approx kg
V AC	A AC	V AC								
Digital voltmeters										
230	600		2	B	7KT1 110		027	1	1 unit	0.190
Digital ammeters for direct and transformer connection										
230	0 ... 20 Trans- former/5		2	B	7KT1 120		027	1	1 unit	0.200



BETA Measuring

Single-Phase Measuring Devices

Digital measuring devices
Analog measuring devices

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More information

Range selector switch for 7KT1 120 digital ammeter

				1 2 3 4			
Direct measurement							
0 0 0 0				20 A AC			
Transformer measurement							
1 0 0 0				25/5A AC			
0 1 0 0				40/5A AC			
1 1 0 0				50/5A AC			
0 0 1 0				60/5A AC			
1 0 1 0				80/5A AC			
0 1 1 0				100/5A AC			
1 1 1 0				150/5A AC			
0 0 0 1				200/5A AC			
1 0 0 1				250/5A AC			
0 1 0 1				400/5A AC			
1 1 0 1				500/5A AC			
0 0 1 1				600/5A AC			
1 0 1 1				800/5A AC			
0 1 1 1				999/5A AC			

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Overview

These devices for measuring voltages and currents can be used for monitoring input and output currents or device currents in electric plants. They are suitable for direct connection in a single-phase system or for three-phase systems when used in conjunction with a measuring selector switch.

Benefits

- The 7KT1 020 ammeters can be equipped with changeable scales for primary currents of 60, 150 or 400 A AC, depending on the transformer ratio of the installed current transformer. The changeable scales are included in delivery. This ensures universal application.
- Permanent overload up to 20 % does not damage the device. Protection for your plant.

Selection and ordering data

U_{meas}	I_{meas}	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS* Unit(s)	Weight per P. unit approx kg
V AC	A AC								
Analog voltmeters									
500		4	B	7KT1 000		027	1	1 unit	0.105
Analog ammeters for direct connection									
	25	4	B	7KT1 010		027	1	1 unit	0.110
	40		B	7KT1 011		027	1	1 unit	0.125
	60		B	7KT1 012		027	1	1 unit	0.135
Analog ammeters for transformer connection with 3 different interchangeable scales									
0 ... 60 A, 0 ... 150 A and 0 ... 400 A	0 ... 60/5 0 ... 150/5 0 ... 400/5	4	B	7KT1 020		027	1	1 unit	0.105



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BETA Measuring Single-Phase Measuring Devices

Time and pulse counters

Overview

Time and pulse counters are used for the reliable monitoring of production and service times, which enables the exact planning and monitoring of production sequences, maintenance cycles and warranty times.

As well as the proven electromechanical time and pulse counters for mounting in distribution boards, we also supply digital time and pulse counters.

The fields of application for both counter types are very diverse, such as the recording of operating hours of machines, systems or building management systems, as well as pulse counting for general volume flow counting, registration of starting frequencies, starting cycles or production quantities in systems and machines.

Benefits

- Time and pulse counters help to plan maintenance intervals and ensure high plant availability.
- Versions without zero position and with electric or manual zero position for all applications
- Flexible application of the digital counters for supply voltages of 12-150 V DC and 24-240 V AC in a single device.

Selection and ordering data

	U_c	Frequency	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V	Hz								
	Time counters									
	Mechanical counting mechanism, display 00000.00 h without resetting									
	12 ... 24	–	2	A	7KT5 801		027	1	1 unit	0.095
	24 AC	50		A	7KT5 802		027	1	1 unit	0.095
	115 AC			B	7KT5 803		027	1	1 unit	0.095
	230 AC			A	7KT5 804		027	1	1 unit	0.095
	115 AC	60		B	7KT5 806		027	1	1 unit	0.095
	230 AC			B	7KT5 807		027	1	1 unit	0.095
	Pulse counters									
	Mechanical counting mechanism, display 0000000 _□_ without resetting									
	10 ... 24	–	2	B	7KT5 811		027	1	1 unit	0.095
	24 AC	50/60		B	7KT5 812		027	1	1 unit	0.095
	230 AC			B	7KT5 814		027	1	1 unit	0.095
	Electronic time counters									
	LCD 000000.0 h without resetting									
	12 ... 150 DC,	50/60	2	B	7KT5 821		027	1	1 unit	0.080
	24 ... 240 AC									
	With electrical resetting									
	12 ... 150 DC,	50/60		B	7KT5 822		027	1	1 unit	0.080
	24 ... 240									
	With electrical and mechanical resetting									
	12 ... 150 DC,	50/60		B	7KT5 823		027	1	1 unit	0.080
	24 ... 240									
	Electronic pulse counters									
	LCD display 0000000 _□_									
	With electrical and mechanical resetting									
	10 ... 150 DC,	50/60	2	B	7KT5 833		027	1	1 unit	0.080
	24 ... 240									

More information

Time counters count the time in hours with an accuracy of two decimal places (hundredths of hours). The pulse counter adds the number of pulses, e.g. the making operations of devices.

A power supply is required at terminals 1 and 3 of the electronic counters so that the device can constantly display the measured values. Once terminal 3 is supplied with voltage (for DC "+"), the counting procedure starts. If terminal 4 is supplied short-time with voltage (for DC "+"), the counter is reset.

In the case of electronic counters, the counting result is saved indefinitely in the event of a voltage failure (EEPROM). On recovery of the power, the counting is continued from the saved value. As well as a modern design, the electronic counter has a 7-digit LCD, which can be reset electrically or manually.

BETA Measuring

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Time counters for front-panel mounting

Overview

Time and pulse counters for control cabinets, control and mechanical engineering are used, e.g. in boilers, machine tools or compressors. The pulse counters count the starting frequencies. This supports planning for preventative maintenance.

In-time and regular maintenance is the best protection against unexpected shutdowns. Time counters count the time in hours with an accuracy of two decimal places (hundredths of hours).

Benefits

- Time and pulse counters help to plan maintenance intervals and ensures high plant availability.

Selection and ordering data

	U_c	Frequency	MW	DT	Order No.	Price per PU	PG	PU (UNIT, SET, M)	PS*	Weight per P. unit approx kg
	V	Hz								
	Time counters									
	Mechanical counting mechanism, display 00000.00 h, for front-panel mounting, front frame 48 mm x 48 mm									
	10 ... 80	—		A	7KT5 500		027	1	1 unit	0.045
	24 AC	50		A	7KT5 505		027	1	1 unit	0.045
	115 AC			A	7KT5 501		027	1	1 unit	0.045
	230 AC			A	7KT5 502		027	1	1 unit	0.045
	115 AC	60		A	7KT5 503		027	1	1 unit	0.045
	230 AC			A	7KT5 504		027	1	1 unit	0.045
	For front-panel mounting, front frame 72 mm x 72 mm. With narrow frame according to DIN 43700									
	10 ... 50	—	2	B	7KT5 600		027	1	1 unit	0.120
	115 AC	50		B	7KT5 601		027	1	1 unit	0.120
	230 AC			A	7KT5 602		027	1	1 unit	0.120
Covers for 7KT5 5 time counters										
55 mm x 55 mm				B	7KT9 020		027	1	5 units	0.015
Sealing rings for 7KT9 020 covers										
IP 43-installation in switchboards with smooth surfaces (1 set = 5 units)				C	7KT9 000		027	1	1 set	0.020
Terminal covers for 7KT5 6 time counters										
Degree of protection IP20, with connected conductors				B	7KT9 021		027	1	5 units	0.010