Selection and ordering data


3RT201.-1A


3RT201. -2A. . .


3RT2028-1N...


3RT2025-2B...


3RT2035-1A...


3RT2045-1A...

Frame Size	Amp Ratings AC3	AC1	Single-phase HP ratings 115V	208V	230V	Three-phase HP ratings 208V	230V	460V	575V	Auxiliary contacts NO	NC	Screw Terminals Order No.	Spring-Loaded Terminals[1] Order No.	Weight approx. kg
3RT 3-pole contactors														
S00	**6**	18	0.25	0.5	0.75	1.5	2	**3**	5	1	0	**3RT2015-1□●●1**	**3RT2015-2□●●1**	0.24/0.29
										0	1	**3RT2015-1□●●2**	**3RT2015-2□●●2**	
	9	22	0.33	1	1	2	3	**5**	7.5	1	0	**3RT2016-1□●●1**	**3RT2016-2□●●1**	
										0	1	**3RT2016-1□●●2**	**3RT2016-2□●●2**	
	12	22	0.5	1.5	2	3	3	**7.5**	10	1	0	**3RT2017-1□●●1**	**3RT2017-2□●●1**	
										0	1	**3RT2017-1□●●2**	**3RT2017-2□●●2**	
	16	22	1	2	2	3	5	**10**	10	1	0	**3RT2018-1□●●1**	**3RT2018-2□●●1**	
										0	1	**3RT2018-1□●●2**	**3RT2018-2□●●2**	
S0	**9**	40	1	1	1	2	3	**5**	7.5	1	1	**3RT2023-1□●●0**	**3RT2023-2□●●0**	0.42/0.60
	12	40	1	2	2	3	3	**7.5**	10	1	1	**3RT2024-1□●●0**	**3RT2024-2□●●0**	
	17	40	1	2	3	5	5	**10**	15	1	1	**3RT2025-1□●●0**	**3RT2025-2□●●0**	
	25	40	2	3	3	7.5	7.5	**15**	20	1	1	**3RT2026-1□●●0**	**3RT2026-2□●●0**	
	32	50	2	5	5	10	10	**20**	25	1	1	**3RT2027-1□●●0**	**3RT2027-2□●●0**	
	38	50	3	5	5	10	10	**25**	25	1	1	**3RT2028-1□●●0**	**3RT2028-2□●●0**	
S2	**40**	60	3	5	7.5	10	15	**30**	40	1	1	**3RT2035-1□●●0**	**3RT2035-3□●●0**	0.99/1.121
	50	70	3	7.5	10	15	15	**40**	50	1	1	**3RT2036-1□●●0**	**3RT2036-3□●●0**	
	65	80	5	10	10	20	20	**50**	50	1	1	**3RT2037-1□●●0**	**3RT2037-3□●●0**	
	80[2]	90	5	10	15	20	25	**50**	60	1	1	**3RT2038-1□●●0**	**3RT2038-3□●●0**	
S3	**80**	125	7.5	10	15	25	30	**60**	60	1	1	**3RT2045-1□●●0**	**3RT2045-3□●●0**	1.8/2.8
	95	130	10	10	20	30	30	**75**	75	1	1	**3RT2046-1□●●0**	**3RT2046-3□●●0**	
	110	130	10	10	20	30	40	**75**	100	1	1	**3RT2047-1□●●0**	**3RT2047-3□●●0**	
												□	**□**	
	Size S2 & S3 only: Replace "B" with "K" for 24VDC coil only **Size S0-S3 only: UC Electronic with integrated varistor**											**AC Coil = A** **DC Coil = B** **UC Coil = N**	**A** **B** **N**	

NEMA Size	Amp Ratings	Single-phase HP ratings 115V	230V	Three-phase HP ratings 208V	230V	460V	575V	Auxiliary contacts NO	NC	Screw Terminals with AC coil Order No.	Screw Terminals with 24 VDC coil Order No.	Weight approx. kg
NEMA Labeled Contactors												
0	**18**	1	2	3	3	**5**	5	1	0	**3RT2018-1A●●1-0UA0**	**3RT2018-1BB41-0UA0**	0.28
1	**27**	2	3	7.5	7.5	**10**	10	1	1	**3RT2027-1A●●0-0UA0**	**3RT2027-1BB40-0UA0**	0.42
2	**45**	3	7.5	10	15	**25**	25	1	1	**3RT2036-1A●●0-0UA0**	**3RT2036-1NB30-0UA0**	0.986/1.121
3	**90**	7.5	15	25	30	**50**	50	1	1	**3RT2046-1A●●0-0UA0**	**3RT2046-1NB30-0UA0**	1.8 / 2.8

Note: Ring lug terminals are also available in size S00 & S0 contactors, except contactors with communication interface or UC coil. Change the 8th digit of the order number to a "4", e. g. 3RT2015-4AK61.

For further coil voltages, see page 2/51.
For auxiliaries and accessories, see page 2/68-2/85.
For spare parts, see page 2/96-2/101.
For technical data, see page 2/123-2/144.
For description, see page 2/106-2/107.
For int. circuit diagrams, see page 2/192-2/199.
For dimension drawings, see page 2/211-2/214.

[1] All terminals are spring loaded on frame sizes S00 & S0. Only the coil terminals are spring loaded on frame sizes S2 & S3.
[2] Max UL FLA = 65A at 460V

AC Coil Selection for 3RT201 through 3RT204

●●Coil Code	C2[3]	H2[4]	K6	P6	U6	V6	T6
60 Hz	24 V	48 V	120 V	240 V	277 V	480 V	600 V
50 Hz	24 V	48 V	110 V	220 V	—	—	—

DC Coil Selection for 3RT201 & 3RT202 (for 3RT203 & 3RT204 see UC)

●●Coil Code	A4[5]	B4	W4	E4	F4	G4	M4
DC	12 V	24 V	48 V	60 V	110 V	125 V	220 V

UC Coil Selection for 3RT202

●●Coil Code	B3	F3	P3[5]
UC	21-28V	95-130V	200-280V

UC Coil Selection for 3RT203 & 3RT204

●●	B3	F3	P3[6]
	20-33V	83-155V	175-280V

[3] Use Code **B0** for 3RT201, S00
[4] Use Code **H0** for 3RT201, S00
[5] 3RT201 and 3RT202 only
[6] at upper limit = 1.1 x U_S

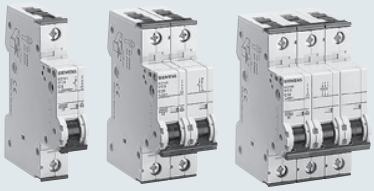
contents

5SJ4 Branch Circuit Protectors

5SJ4 Page

Selection and ordering data

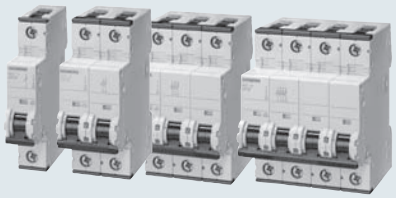
5SY4 Supplementary Protectors



5SY4 Page

Selection and ordering data

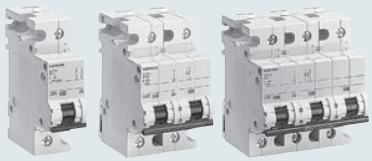
5SY6 Supplementary Protectors



5SY6 Page

Selection and ordering data

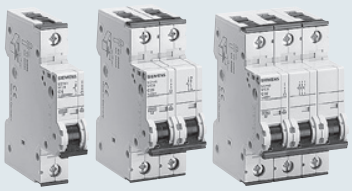
5SP Supplementary Protectors



5SP4 Page

Selection and ordering data

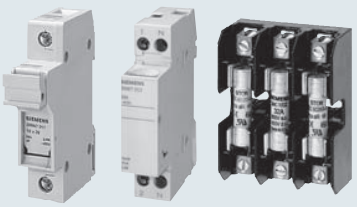
AC/DC Product Range 5SY5 Supplementary Protectors



5SY5 Page

Selection and ordering data

3NW7 Cylindrical Fuse Holders



3NW7 and 3NC10 Page

Selection and ordering data

General Data

5SY and 5SP supplementary protection

Application

Siemens' UL 1077 Supplementary Protectors are designed to provide additional protection along with a branch circuit protection device. Since our Supplementary protectors are made to trip faster than a standard UL 489 Circuit Breaker they are able to provide additional protection for more sensitive devices inside the panel. Supplementary protectors can be used in a number of industrial applications such as to provide selectivity for multiple motor control circuits on the secondary side of a control transformer or power supply by allowing the user to quickly find the problem circuit should a fault occur without having to shut down all of the other control circuits. Supplementary protectors may also be used as a local disconnecting means inside the panel when a branch circuit protection device is already present.

Always remember to follow the National Electric code when wiring your panel for applications within the United States.

Design

Supplementary protectors are equipped with a delayed overload/time-dependent thermal release (thermal bimetal) for low overcurrents and with an instantaneous electromagnetic release for high overload and short-circuit currents.

The special contact materials used virtually guarantee a long service life and offer a high degree of protection against contact welding.

Mode of operation

Thanks to the extremely fast contact separation in cases of failures and the rapid quenching of the arc consequently generated in the arcing chamber, supplementary protectors assure a safe and current-limiting off-switching.

The permissible limit-I^2t-values of the energy limitation class 3 specified in EN 60 898 are generally undercut. This guarantees an excellent selectivity towards upstream overcurrent protection devices.

Features

- High rated breaking capacity of up to 10,000 A acc. to EN 60 898 / up to 15 kA acc. to EN 60 947-2
- Excellent current limiting and selectivity characteristics
- Tripping characteristic A, B, C and D
- Terminals offer protection against contact with fingers or the back of the hand acc. to the German accident prevention regulations VBG 4/ BGV A2
- Combined terminals enable a simultaneous connection of busbars and feeder cables
- Uniform components that can be quickly mounted individually, thanks to their snap-on technique
- The handle locking device virtually prevents any unauthorized operation of the handle

Features of 5SY

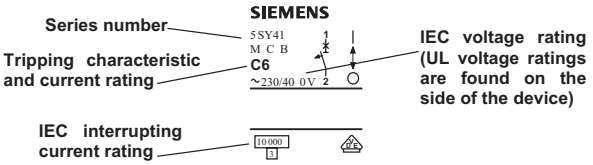
- Rapid connection of the feeder cable in front of the busbar
- Identical terminals at both sides for an optional infeed from the top or the bottom
- No tool required for mounting or dismounting
- Supports a fast and comfortable removal from the assembly
- Trip indication

Features of 5SP4

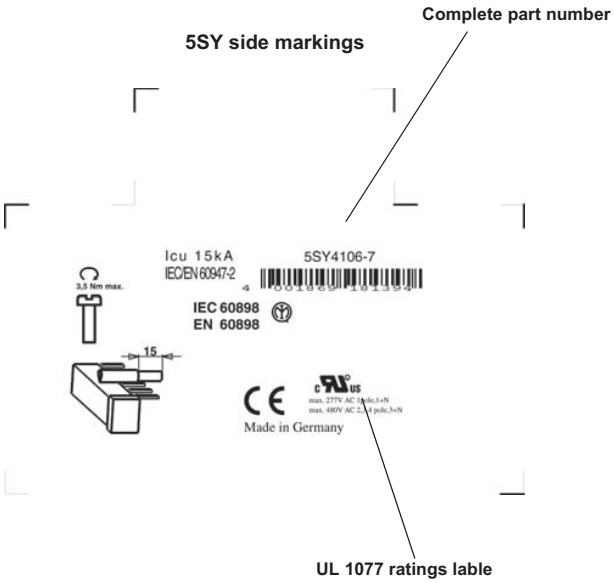
- Disconnection characteristics acc. to EN 60947-3 (DIN VDE 0660 Part 107)
- Main switch characteristics acc. to EN 60 204-1
- Can be screwed onto bases
- Separate switch position indication.

Device markings

5SY Front Markings



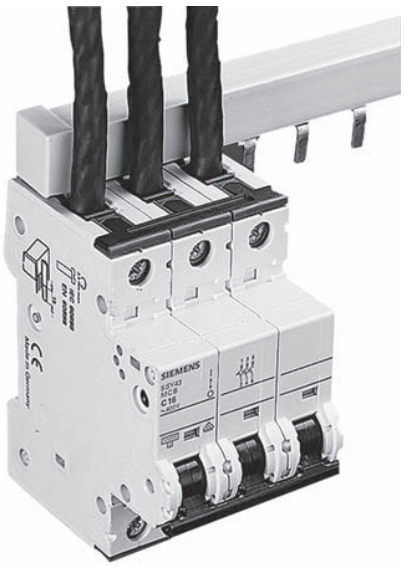
5SY side markings

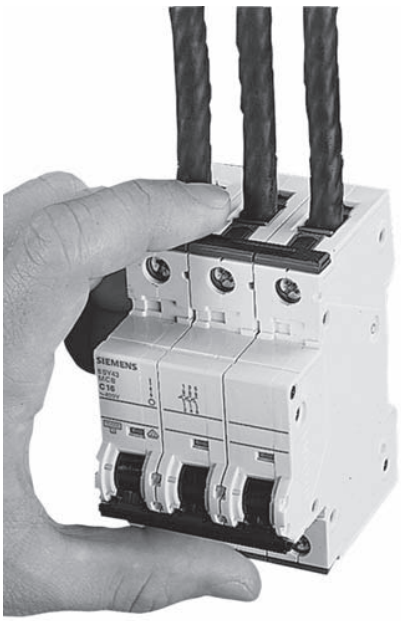


5SY4 Supplementary Protection

Overview

Features of 5SY supplementary protectors



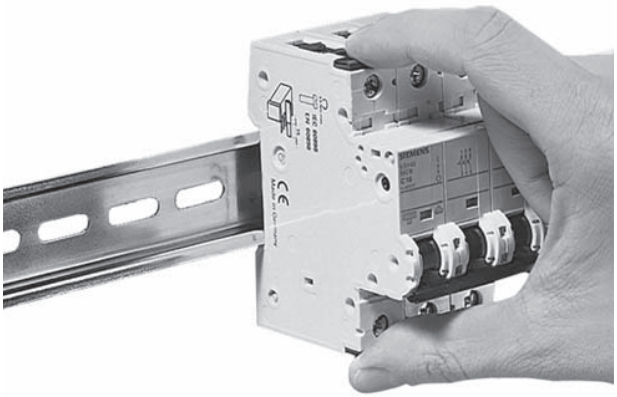


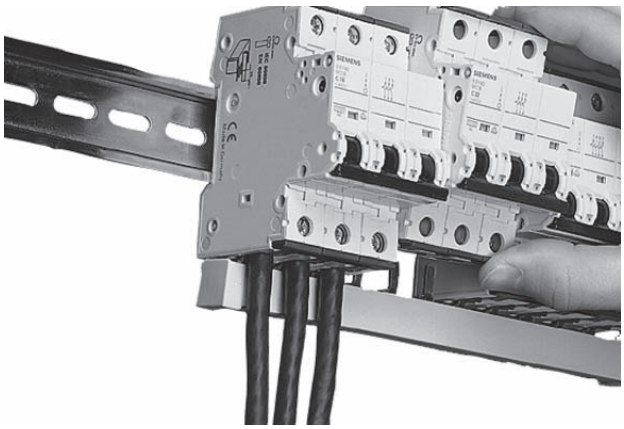
Easier, faster, enlarged wiring space

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

Protection against contact with clear advantages

- Integrated movable terminal covers located at the feeder cable input
- The terminals are completely closed when screws are fully tightened
- Effective protection against contact, also when the device is fully grabbed





Flexible and no use of tools required

- Manually operable quick-assembly and disassembly systems requiring no use of tools
- Fast assembly and disassembly of 5SY supplementary protectors to and from the standard mounting rail.
- All devices can be easily and comfortably replaced at any time.

Removal from the assembly

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

Supplementary Protection, AC/DC Product Range

5SY5 70 mm mounting depth

Features

All 5SY5 designs have been certified to **UL 1077** and can therefore be used as “supplementary protectors” for applications up to 277 VAC or 250 VDC (1-pole) and 480 VAC or 500 VDC (2-pole).

Selection and ordering data

		I_n	MW[1]	Characteristic B Order No.	List Price $ 1 item	Characteristic C Order No.	List Price $ 1 item	Weight 1 item
		A						kg
	**1-pole**							
		0.3	1	-		5SY5 114-7		0.147
		0.5		-		5SY5 105-7		
		1		-		5SY5 101-7		
		1.6		-		5SY5 115-7		
		2		5SY5 102-6		5SY5 102-7		
		3		-		5SY5 103-7		
		4		-		5SY5 104-7		
		6		5SY5 106-6		5SY5 106-7		
		8		-		5SY5 108-7		
		10		5SY5 110-6		5SY5 110-7		
		13		5SY5 113-6		5SY5 113-7		
		16		5SY5 116-6		5SY5 116-7		
		20		5SY5 120-6		5SY5 120-7		
		25		5SY5 125-6		5SY5 125-7		
		32[1]		5SY5 132-6		5SY5 132-7		
		40		5SY5 140-6		5SY5 140-7		
		50		5SY5 150-6		5SY5 150-7		
		63		5SY5 163-6		5SY5 163-7		
	**2-pole**							
		0.3	2	-		5SY5 214-7		0.304
		0.5		-		5SY5 205-7		
		1		-		5SY5 201-7		
		1.6		-		5SY5 215-7		
		2		-		5SY5 202-7		
		3		-		5SY5 203-7		
		4		-		5SY5 204-7		
		6		5SY5 206-6		5SY5 206-7		
		8		-		5SY5 208-7		
		10		5SY5 210-6		5SY5 210-7		
		13		5SY5 213-6		5SY5 213-7		
		16		5SY5 216-6		5SY5 216-7		
		20		5SY5 220-6		5SY5 220-7		
		25		5SY5 225-6		5SY5 225-7		
		32		5SY5 232-6		5SY5 232-7		
		40		5SY5 240-6		5SY5 240-7		
		50		5SY5 250-6		5SY5 250-7		
		63		5SY5 263-6		5SY5 263-7		

1) MW = modular width of 18 mm.
Depth = 70 mm.