Data sheet

Power contactor, AC-3 16 A, 7.5 kW / 400 V 2 NO + 2 NC, 230 V AC 50/60 Hz, 3-pole Size S00, Screw terminal Auxiliary switch block captive



product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S00
Product extension	
 function module for communication 	No
Auxiliary switch	No
Power loss [W] for rated value of the current	
 at AC in hot operating state 	6.6 W
• at AC in hot operating state per pole	2.2 W
Power loss [W] for rated value of the current without load current share typical	5.7 W
Surge voltage resistance	
• of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 60947-1 	400 V

 protection class IP on the front 	IP20
 Protection class IP of the terminal 	IP20
Shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
Shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
at AC-3 rated value maximum	690 V
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	22 A
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	22 A
 up to 690 V at ambient temperature 60 °C rated value 	20 A
• at AC-2 at 400 V rated value	16 A
• at AC-3	
— at 400 V rated value	16 A
— at 500 V rated value	12.4 A
— at 690 V rated value	8.9 A
● at AC-4 at 400 V rated value	44.5.4
	11.5 A
• at AC-5a up to 690 V rated value	11.5 A 19.4 A

 up to 230 V for current peak value n=20 rated value 	9.6 A
 up to 400 V for current peak value n=20 rated value 	9.6 A
 up to 500 V for current peak value n=20 rated value 	9.6 A
 up to 690 V for current peak value n=20 rated value 	8.9 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	6.6 A
 up to 400 V for current peak value n=30 rated value 	6.4 A
 up to 500 V for current peak value n=30 rated value 	6.4 A
 up to 690 V for current peak value n=30 rated value 	6.4 A
Minimum cross-section in main circuit	
 at maximum AC-1 rated value 	4 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	5.5 A
• at 690 V rated value	4.4 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
Operating current	

• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	0.1 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	0.35 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
Operating power	
• at AC-2 at 400 V rated value	7.5 kW
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.5 kW
• at 690 V rated value	3.5 kW
Operating apparent output at AC-6a	
 up to 230 V for current peak value n=20 rated value 	3.8 kV·A
 up to 400 V for current peak value n=20 rated value 	6.6 kV·A
 up to 500 V for current peak value n=20 rated value 	8.3 kV·A
 up to 690 V for current peak value n=20 rated value 	10.6 kV·A
Operating apparent output at AC-6a	
• up to 230 V for current peak value n=30 rated value	2.5 kV·A
• up to 400 V for current peak value n=30 rated value	4.4 kV·A
• up to 500 V for current peak value n=30 rated value	5.5 kV·A
• up to 690 V for current peak value n=30 rated value	7.6 kV·A
Short-time withstand current in cold operating state up to 40 °C	

 limited to 1 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	169 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	92 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	74 A; Use minimum cross-section acc. to AC-1 rated value
No-load switching frequency	
• at AC	10 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	250 1/h

Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
● at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
● at 60 Hz	0.85 1.1
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	37 V·A
● at 60 Hz	33 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.75
Apparent holding power of magnet coil at AC	
● at 50 Hz	5.7 V·A
● at 60 Hz	4.4 V·A
Inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.25
● at 60 Hz	0.25
Closing delay	
• at AC	8 33 ms
Opening delay	
• at AC	4 15 ms

Auxiliary circuit Number of NC contacts for auxiliary contacts instantaneous contact 2 Number of NO contacts for auxiliary contacts instantaneous contact 2 Operating current at AC-12 maximum 0 poparating current at AC-15 in at 230 V rated value in at 400 V rated value in at 500 V rated value in at 400 V rated value in at 500 V rated v	Arcing time	10 15 ms
Number of NC contacts for auxillary contacts 2	Control version of the switch operating mechanism	Standard A1 - A2
	Auxiliary circuit	
Number of NO contacts for auxiliary contacts • instantaneous contact 2 Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 120 V rated value • at 120 V rated value • at 200 V rated value • at 48 V rated value • at 100 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 80 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated value • at 120 V rated value • at 1600 V rated value • at 600 V rated value • at 100 V rated value • at 200 V rated value •	Number of NC contacts for auxiliary contacts	
• instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value 6 A • at 400 V rated value 2A • at 500 V rated value 1A • at 600 V rated value 1A Operating current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 80 V rated value 9 A • at 110 V rated value 9 A • at 125 V rated value 9 A • at 125 V rated value 9 A • at 220 V rated value 9 A • at 80 V rated value 9 A • at 110 V rated value 9 A • at 80 V rated value 9 A • at 110 V rated value 9 A • at 230 V rated value 9 A • at 230 V rated value 9 A • at 230 V rated value 9 A • for three-phase AC motor 9 A • at 230 V rated value 9 A • for three-phase AC motor 9 A • at 200/208 V rated value 9 A • for three-phase AC motor 9 A • for three-phase AC	• instantaneous contact	2
Operating current at AC-12 maximum	Number of NO contacts for auxiliary contacts	
Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 800 V rated value • at 800 V rated value • at 800 V rated value • at 824 V rated value • at 80 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 800 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 600 V rated value • at 800 V rated value • at 110 V rated value • at 200 V rated value • for three-phase AC motor • at 110/120 V rated value • for three-phase AC motor • at 200/208 V rated value • for three-phase AC motor • at 200/208 V rated value • for three-phase AC motor • at 200/208 V rated value	• instantaneous contact	2
• at 230 V rated value	Operating current at AC-12 maximum	10 A
• at 400 V rated value 2 A • at 500 V rated value 1 A Operating current at DC-12 • at 24 V rated value 6 A • at 690 V rated value 10 A at 48 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 11 A • at 125 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 64 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 2 A • at 125 V rated value 2 A • at 60 V rated value 1 A • at 125 V rated value 1 A • at 120 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 480 V rated value 1 A • at 600 V rated value 1 A •	Operating current at AC-15	
• at 500 V rated value 2 A • at 690 V rated value 1 A Operating current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 7 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 600 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 480 V rated value 1 A • at 600 V rated value 1	• at 230 V rated value	6 A
• at 690 V rated value 10 A Operating current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A Operating current at DC-13 • at 24 V rated value 6 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 600 V rated value 2 A • at 110 V rated value 2 A • at 600 V rated value 2 A • at 110 V rated value 1 A • at 600 V rated value 1 A • at 125 V rated value 2 A • at 110 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 1 A Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 11 A Yielded mechanical performance [ip.] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 2 hp • for three-phase AC motor — at 200/208 V rated value 2 hp	● at 400 V rated value	3 A
Operating current at DC-12	● at 500 V rated value	2 A
• at 24 V rated value 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6 A 6	● at 690 V rated value	1 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 60 V rated value • at 600	Operating current at DC-12	
 at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value 1 A at 600 V rated value 0.15 A Operating current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 20 V rated value at 600 V rated value at 20 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 74 A at 600 V rated value at 74 A at 10/120 V rated value at 1 hp at 230 V rated value at 200/208 V rated value at 200/208 V rated value 3 hp 	• at 24 V rated value	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A Operating current at DC-13 at 24 V rated value 6 A at 48 V rated value at 60 V rated value 2 A at 110 V rated value at 125 V rated value at 220 V rated value at 200 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 11 A Yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value for single-phase AC motor at 230 V rated value for three-phase AC motor at 200/208 V rated value 3 hp 	● at 48 V rated value	6 A
 at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A Operating current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 10/120 V rated value for single-phase AC motor at 200 V rated value for single-phase AC motor at 200 V rated value for three-phase AC motor at 200/208 V rated value 3 hp 	● at 60 V rated value	6 A
• at 220 V rated value • at 600 V rated value Operating current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 700 V rated value • at 11 A Yielded mechanical performance [hp] • for single-phase AC motor • at 110/120 V rated value • for three-phase AC motor • at 200/208 V rated value • for three-phase AC motor • at 200/208 V rated value • 3 hp	• at 110 V rated value	3 A
• at 600 V rated value Operating current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 110 / 120 V rated value 11 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110 / 120 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 3 hp	• at 125 V rated value	2 A
Operating current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 200 V rated value • at 600 V rated value Contact reliability of auxiliary contacts Tull-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value 14 A • at 600 V rated value 11 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value 3 hp	• at 220 V rated value	1 A
at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 1125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V r	• at 600 V rated value	0.15 A
at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 11 A Yielded mechanical performance [hp] at 600 V rated value at 110/120 V rated value at 230 V rated value	Operating current at DC-13	
at 160 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 11 A Yielded mechanical performance [hp] at 110/120 V rated value at 230 V rated value 3 hp	● at 24 V rated value	6 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value 11 A Yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp at 230 V rated value at 200/208 V rated value 3 hp 	● at 48 V rated value	2 A
 at 125 V rated value at 220 V rated value 3 A at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value 11 A Yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 1 hp at 230 V rated value 2 hp for three-phase AC motor at 200/208 V rated value 3 hp 	● at 60 V rated value	2 A
 at 220 V rated value at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value 11 A Yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp at 230 V rated value for three-phase AC motor at 200/208 V rated value 3 hp 	• at 110 V rated value	1 A
 at 600 V rated value contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp at 230 V rated value for three-phase AC motor at 200/208 V rated value 3 hp 	• at 125 V rated value	0.9 A
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 14 A • at 600 V rated value 11 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 3 hp	• at 220 V rated value	0.3 A
UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 14 A • at 600 V rated value 11 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 2 hp • for three-phase AC motor — at 200/208 V rated value 3 hp	• at 600 V rated value	0.1 A
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value 11 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 3 hp	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for three-phase AC motor — at 200/208 V rated value 3 hp 	UL/CSA ratings	
 at 600 V rated value Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 9 for three-phase AC motor — at 200/208 V rated value 3 hp 	Full-load current (FLA) for three-phase AC motor	
Yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value — at 230 V rated value ● for three-phase AC motor — at 200/208 V rated value 3 hp	• at 480 V rated value	14 A
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 2 hp for three-phase AC motor — at 200/208 V rated value 3 hp 	• at 600 V rated value	11 A
 — at 110/120 V rated value — at 230 V rated value ● for three-phase AC motor — at 200/208 V rated value 3 hp 	Yielded mechanical performance [hp]	
 — at 230 V rated value ● for three-phase AC motor — at 200/208 V rated value 3 hp 	• for single-phase AC motor	
 for three-phase AC motor — at 200/208 V rated value 3 hp 	— at 110/120 V rated value	1 hp
— at 200/208 V rated value 3 hp	— at 230 V rated value	2 hp
	• for three-phase AC motor	
at 220/220 V rated value 5 hp	— at 200/208 V rated value	3 hp
— at 220/250 v Tateu value	— at 220/230 V rated value	5 hp

— at 460/480 V rated value	10 hp
— at 575/600 V rated value	10 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 25A (690V,100kA), BS88: 50A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)

• for short-circuit protection of the auxiliary switch required

gG: 10 A (500 V, 1 kA)

mounting position	+/-180° rotation possible on vertical mounting surface; can be
- mounting position	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
Side-by-side mounting	Yes
Height	58 mm
Width	45 mm
Depth	117 mm
Required spacing	
with side-by-side mounting	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
• for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm

Connections/ Terminals

• Type of electrical connection for main current circuit

screw-type terminals

 Type of electrical connection for auxiliary and control current circuit 	screw-type terminals
 Type of electrical connection at contactor for auxiliary contacts 	Screw-type terminals
Type of electrical connection of magnet coil	Screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
 single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for main contacts 	2x (20 16), 2x (18 14), 2x 12
Connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
• stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
Connectable conductor cross-section for auxiliary	
contacts	
• single or multi-stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
 single or multi-stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 2x 12
AWG number as coded connectable conductor cross	
section	
• for main contacts	20 12
for auxiliary contacts	20 12
Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
Failure rate [FIT]	
• with low demand rate acc. to SN 31920	100 FIT
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
positively driven operation acc. to IEC 60947-5-	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y

Protection against electrical shock

finger-safe

Suitability for use safety-related switching OFF

Yes

Certificates/ approvals

General Product Approval

EMC











Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	Marine / Ship- ping
Type Examination Certificate	Miscellaneous EG-Konf.	Type Test Certificates/Test Report Special Test Certificate	ABS

Marine / Shipping













other

Confirmation



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-1AP04-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1AP04-3MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AP04-3MA0

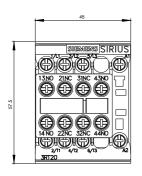
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1AP04-3MA0&lang=en

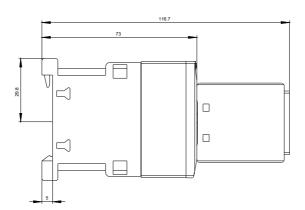
Characteristic: Tripping characteristics, I2t, Let-through current

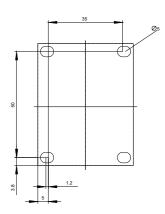
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AP04-3MA0/char

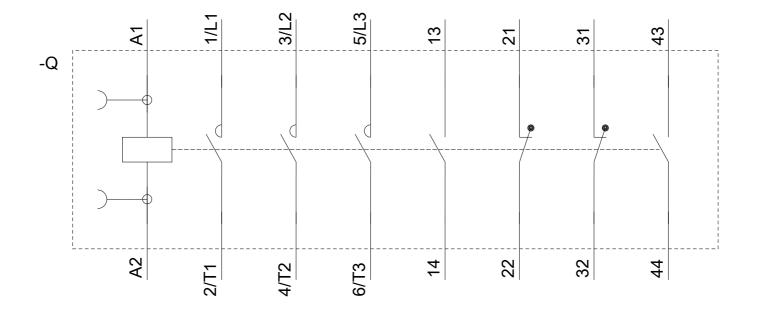
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2018-1AP04-3MA0&objecttype=14&gridview=view1









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