SIEMENS

Data sheet 3RT2018-1AF02

CONTACTOR, AC-3, 7.5KW/400V, 1NC, AC110V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL



product brandname	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	Yes
Insulation voltage	
• rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	400 V
60947-1	
Protection class IP	
• on the front	IP20
• 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)	11, 1970 1110, 1,097 10 1110		
of contactor typical	30 000 000		
of the contactor with added electronics-	5 000 000		
compatible auxiliary switch block typical			
 of the contactor with added auxiliary switch 	10 000 000		
block typical			
Ambient conditions			
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	22 A		
rated value	20.4		
 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		
Connectable conductor cross-section in main circuit at AC-1			
• at 60 °C minimum permissible	2.5 mm²		
• at 40 °C minimum permissible	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-1	
— at 230 V rated value	7.5 kW
— at 230 V at 60 °C rated value	7.5 kW
— at 400 V rated value	13 kW
— at 400 V at 60 °C rated value	13 kW
— at 690 V rated value	22 kW
— at 690 V at 60 °C rated value	22 kW
• 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 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
Thermal short-time current limited to 10 s	128 A
Power loss [W] at AC-3 at 400 V for rated value of	2.2 W
the operating current per conductor	
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	110 V
● at 60 Hz rated value	110 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	43 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.8
● at 60 Hz	0.8
Apparent holding power of magnet coil at AC	
● at 50 Hz	5.7 V·A
● at 60 Hz	6.5 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
Arcing time	10 15 ms

signal <0>

Residual current of the electronics for control with

• at AC at 230 V maximum permissible	4 mA
• at DC at 24 V maximum permissible	10 mA

Number of NC contacts • for auxiliary contacts - instantaneous contact 1	Auxiliary circuit	
— instantaneous contact 10 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value 3 A • at 500 V rated value 1 A • at 500 V rated value 1 A • at 690 V rated value 1 A • at 690 V rated value 10 A • at 48 V rated value 10 A • at 48 V rated value 6 A • at 110 V rated value 6 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 2 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 26 V rated value 2 A • at 27 V rated value 1 A • at 28 V rated value 1 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 10 A • at 24 V rated value 2 A • at 22 V rated value 2 A • at 28 V rated value 2 A • at 125 V rated value 3 A • at 28 V rated value 1 A • at 48 V rated value 2 A • at 200 V rated value 3 A • at 220 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 60 V		
— instantaneous contact 10 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value 3 A • at 500 V rated value 1 A • at 500 V rated value 1 A • at 690 V rated value 1 A • at 690 V rated value 10 A • at 48 V rated value 10 A • at 48 V rated value 6 A • at 110 V rated value 6 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 2 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 26 V rated value 2 A • at 27 V rated value 1 A • at 28 V rated value 1 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 10 A • at 24 V rated value 2 A • at 22 V rated value 2 A • at 28 V rated value 2 A • at 125 V rated value 3 A • at 28 V rated value 1 A • at 48 V rated value 2 A • at 200 V rated value 3 A • at 220 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 25 V rated value 1 A • at 60 V	for auxiliary contacts	
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 24 V rated value • at 24 V rated value • at 60 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 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 60 V rated value • at 80 V rated value • at 60 V rated value • at 125 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rat	•	1
• 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 2 A • at 690 V rated value 1 A Operating current at DC-12 • at 24 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 2 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 48 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 2 A • at 600 V rated value 10 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 1 A • at 60 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 126 V rated value 1 A • at 127 V rated value 1 A • at 128 V rated value 1 A • at 129 V rated value 1 A • at 600 V rated Value 1 A • at	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 10 A • at 48 V rated value 6 A • at 80 V rated value 6 A • at 80 V rated value 3 A • at 125 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 10 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 2 A • at 600 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated Val	• at 230 V rated value	10 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 60 V rated value 6 A • at 110 V rated value 7 A • at 220 V rated value 7 A • at 220 V rated value 8 A • at 125 V rated value 9 A • at 220 V rated value 9 A • at 220 V rated value 9 A • at 24 V rated value 9 A • at 60 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 125 V rated value 9 A • at 220 V rated value 9 A • at 220 V rated value 9 A • at 220 V rated value 9 A • at 600 V rated value 9 A • at 230 V rated value 11 A Violded mechanical performance [tp] • for single-phase AC motor 9 A • at 230 V rated value 1 A • for three-phase AC motor 9 A • at 230 V rated value 1 A • for three-phase AC motor 9 A • for three-phase AC moto	• at 400 V rated value	3 A
Operating current at DC-12 at 24 V rated value 10 A • at 24 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 3 A • at 125 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 10 A • at 24 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 2 A • at 125 V rated value 0.9 A • at 220 V rated value 0.3 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 14 A • at 600 V rated value 14 A • at 600 V rated value 11 A • for single-phase AC motor 14 A • at 230 V rated value 1 hp • for three-phase AC motor 1 hp • for three-phase AC motor 2 hp	• at 500 V rated value	2 A
 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 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 48 V rated value at 48 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 at 480 V rated value at 480 V rated value at 480 V rated value at 14 A at 600 V rated value at 14 A at 600 V rated value at 14 A at 600 V rated value at 14 A at 101/120 V rated value at 230 V rated value at 14 A at 230 V rated value 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 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 for three-phase AC motor at 200/208 V rated value for three-phase AC motor for three-phase AC motor for three-phase AC motor for three-phase AC motor for three-phase AC motor<td>• at 690 V rated value</td><td>1 A</td>	• at 690 V rated value	1 A
• at 48 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 3 A • at 125 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 2 A • at 48 V rated value 2 A • at 60 V rated value 10 A • at 48 V rated value 2 A • at 10 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 600 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 230 V rated value 2 A • at 230 V rated value 3 A • at 220/230 V rated value 5 A • bp	Operating current at DC-12	
• 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 24 V rated value • 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 125 V rated value • at 600 V rated value • 11 A 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 • 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 220/230 V rated value • for three-phase AC motor — at 220/230 V rated value • for three-phase AC motor — at 220/230 V rated value • for three-phase AC motor	• at 24 V rated value	10 A
• at 110 V rated value 3 A	• at 48 V rated value	6 A
 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 10 A 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 200 V rated value at 600 V rated value at 600 V rated value at 600 V rated value Tontact 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 at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 200 V rated value by 	• at 60 V rated value	6 A
• at 220 V rated value	• 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 110 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 480 V rated value • at 480 V rated value • at 600 V rated value • at 200 V rated value • by 600 V rated value • at 200 V rated value • at 200 V rated value • by 700 V rated value • by	• at 125 V rated value	2 A
Operating current at DC-13 • at 24 ∨ rated value 10 A • at 48 ∨ rated value 2 A • at 60 ∨ rated value 1 A • at 110 ∨ rated value 0.9 A • at 220 ∨ rated value 0.3 A • at 600 ∨ rated value 0.1 A Contact reliability of auxiliary contacts I faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 ∨ rated value 14 A • at 600 ∨ rated value 11 A Yielded mechanical performance [hp] • for single-phase AC motor 1 hp — at 230 ∨ rated value 2 hp • for three-phase AC motor 2 hp • for three-phase AC motor 3 hp — at 220/208 ∨ rated value 3 hp — at 220/230 ∨ rated value 5 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 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 600 V rated value at 600 V rated value at 14 A at 600 V rated value at 10/120 V rated value at 11 A 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 220/230 V rated value 5 hp 	• 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 600 V rated value 1 faulty switching per 100 million (17 V, 1 mA) 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 220/230 V rated value 	Operating current at DC-13	
 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 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 2 hp for three-phase AC motor at 200/208 V rated value 3 hp at 220/230 V rated value 5 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 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 5 hp 	• at 48 V rated value	2 A
 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 1 hp at 230 V rated value for three-phase AC motor at 200/208 V rated value 3 hp at 220/230 V rated value 5 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 1 hp at 230 V rated value bfor three-phase AC motor at 200/208 V rated value 3 hp at 200/230 V rated value 5 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 11 A 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 at 200/230 V rated value 5 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 220/230 V rated value 5 hp	• at 220 V rated value	0.3 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 — at 220/230 V rated value 5 hp	• at 600 V rated value	0.1 A
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 220/230 V rated value 5 hp	Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
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 220/230 V rated value 5 hp	UL/CSA ratings	
 at 600 V rated value 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 220/230 V rated value 5 hp 		
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 — at 220/230 V rated value 5 hp	● at 480 V rated value	14 A
 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 220/230 V rated value 5 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 — at 220/230 V rated value 5 hp 	Yielded mechanical performance [hp]	
 — at 230 V rated value ● for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 5 hp 	• for single-phase AC motor	
 for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 5 hp 	— at 110/120 V rated value	1 hp
— at 200/208 V rated value 3 hp — at 220/230 V rated value 5 hp	— at 230 V rated value	2 hp
— at 220/230 V rated value 5 hp	• for three-phase AC motor	
	— at 200/208 V rated value	3 hp
— at 460/480 V rated value 10 hp	— 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
 - with type of assignment 2 required
- for short-circuit protection of the auxiliary switch required

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 25 A

fuse gG: 10 A

Installation/ mounting/ dimensions	
Mounting position	+/-180° rotation possible on vertical mounting surface; can be 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	73 mm
Required spacing	
 for grounded parts 	
— at the side	6 mm
• for live parts	
— at the side	6 mm

Connections/Terminals	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	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
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

Sare	ty r	ela	ate	a (Qä	ા	2

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
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	
Protection against electrical shock	finger-safe

General Product Approval

Functional Safety/Safety of Machinery









Baumusterbescheini gung

Declaration of	
Conformity	



Shipping Approval

spezielle Prüfbescheinigunge n

Typprüfbescheinigu ng/Werkszeugnis







GL

Shipping Approval



EG-Konf.

LRS







other Bestätigungen

Umweltbestätigung

other



Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2018-1AF02

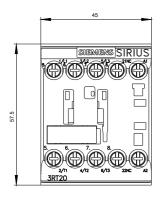
Cax online generator

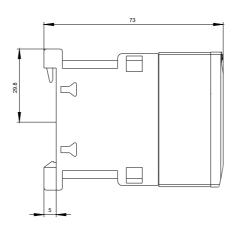
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2018-1AF02

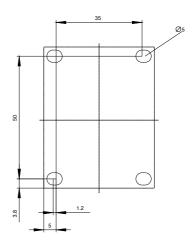
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

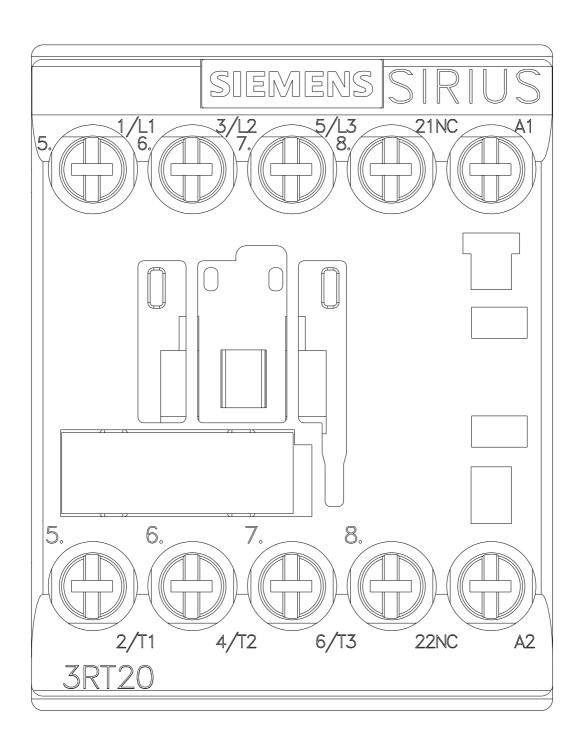
https://support.industry.siemens.com/cs/ww/en/ps/3RT2018-1AF02

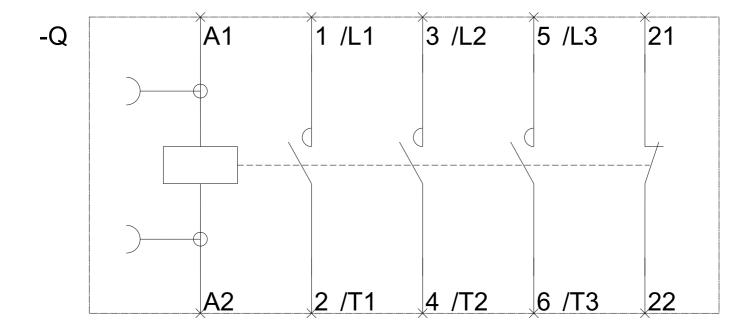
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2018-1AF02&lang=en











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