SIEMENS

Data sheet 3RT2015-1AR61

Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 400 V AC 50 Hz 400-440 V, 60 Hz, 3-pole, Size S00, screw terminal



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	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	1.2 W
• at AC in hot operating state per pole	0.4 W
power loss [W] for rated value of the current without	4.8 W
load current share typical	
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 	400 V
60947-1	

protection class IP	
• on the front	IP20
• of the terminal	IP20
shock resistance at rectangular impulse	
• at AC	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (switching cycles)	
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	
reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
• installation altitude at height above sea level	2 000 m
maximum	
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	18 A
	18 A
— at ambient temperature 40 °C rated value	18 A 18 A
 at ambient temperature 40 °C rated value at AC-1 up to 690 V at ambient temperature 40 °C 	
 at ambient temperature 40 °C rated value at AC-1 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C 	18 A
 at ambient temperature 40 °C rated value at AC-1 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated value 	18 A
 at ambient temperature 40 °C rated value at AC-1 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated value at AC-3 	18 A 16 A
 at ambient temperature 40 °C rated value at AC-1 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated value at AC-3 at 400 V rated value 	18 A 16 A 7 A
 at ambient temperature 40 °C rated value at AC-1 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated value at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value 	18 A 16 A 7 A 6 A
 at ambient temperature 40 °C rated value at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value at AC-4 at 400 V rated value 	18 A 16 A 7 A 6 A 4.9 A 6.5 A
 at ambient temperature 40 °C rated value at AC-1 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated value at AC-3 at 400 V rated value at 500 V rated value at 690 V rated value 	18 A 16 A 7 A 6 A 4.9 A

 up to 230 V for current peak value n=20 rated value 	4 A
 up to 400 V for current peak value n=20 rated value 	4 A
 up to 500 V for current peak value n=20 rated value 	3.8 A
 up to 690 V for current peak value n=20 rated value 	3.6 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	2.7 A
 up to 400 V for current peak value n=30 rated value 	2.7 A
 up to 500 V for current peak value n=30 rated value 	2.5 A
 up to 690 V for current peak value n=30 rated value 	2.4 A
minimum cross-section in main circuit	
 at maximum AC-1 rated value 	2.5 mm²
operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	2.6 A
• at 690 V rated value	1.8 A
operating current	
• at 1 current path at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	1.5 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.42 A
with 2 current paths in series at DC-1	
— at 24 V rated value	15 A
— at 110 V rated value	8.4 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.5 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	15 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.7 A
operating current	

• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	15 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	15 A
— at 110 V rated value	0.25 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	15 A
— at 110 V rated value	15 A
— at 220 V rated value	1.2 A
— at 440 V rated value	0.14 A
— at 600 V rated value	0.14 A
operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	3 kW
— at 690 V rated value	4 kW
operating power for approx. 200000 operating cycles	
at AC-4	
● at 400 V rated value	1.15 kW
at 690 V rated value	1.15 kW
operating apparent output at AC-6a	
 up to 230 V for current peak value n=20 rated value 	1.5 kV·A
 up to 400 V for current peak value n=20 rated value 	2.7 kV·A
 up to 500 V for current peak value n=20 rated value 	3.3 kV·A
 up to 690 V for current peak value n=20 rated value 	4.3 kV·A
operating apparent output at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1 kV·A
 up to 400 V for current peak value n=30 rated value 	1.8 kV·A
 up to 500 V for current peak value n=30 rated value 	2.2 kV·A
 up to 690 V for current peak value n=30 rated value 	2.9 kV·A
short-time withstand current in cold operating state up to 40 °C	

 limited to 1 s switching at zero current maximum 	120 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	67 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	43 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	400 V
• at 60 Hz rated value	440 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	26.4 V·A
● at 60 Hz	31.7 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.81
● at 60 Hz	0.81
apparent holding power of magnet coil at AC	
● at 50 Hz	4.4 V·A
● at 60 Hz	4.8 V·A
inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.24
● at 60 Hz	0.25
closing delay	
● at AC	9 35 ms
opening delay	
• at AC	3.5 14 ms

Control version of the switch operating mechanism Auxiliary circuit rumber of NC contacts for auxiliary contacts instantaneous contact operating current at AC-12 maximum operating current at AC-15 in at 230 V rated value in at 400 V rated value in at 690 V rated value in the switch of a value in the switch of a value in the switch operating current at AC-15 in at 290 V rated value in the switch of a value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-12 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-15 in at 290 V rated value in the switch operating current at AC-12 in at 290 V rated value in the switch operating current at 290 V rated value in the switch operating current at 290 V rated value in the switch operating current at 290 V rated value in the switch operating current at 290 V rated value in the switch operating current at 290 V rated value in the switch operating current at 290 V rated value in the switch operating current at 290 V rated value in the switch operating current at 290 V	arcing time	10 15 ms
number of NO contacts for auxiliary contacts instantaneous contact	control version of the switch operating mechanism	Standard A1 - A2
• instantaneous contact operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 48 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 24 V rated value • at 125 V rated value • at 20 V rated value • at 125 V rated value • at 125 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 110 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 600 V rated value • at 125 V rated value • at 120 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 38 V rated value • at 600 V rated value • at 200 V rated	Auxiliary circuit	
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 690 V rated value • at 48 V rated value • at 48 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 20 V rated value • at 60 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 22 V rated value • at 22 V rated value • at 30 V rated value • at 600 V rated value • at 480 V rated value • at 30 V rated value • at 480 V rated value • at 30 V rated value • at 110 V rated value • at 230 V rated value • for three-phase AC motor	number of NO contacts for auxiliary contacts	
operating current at AC-15	• instantaneous contact	1
at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 40 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 220 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 25 V rated value at 26 V rated value at 27 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 120 V rated value at 220 V rated value at 280 V rated value at 380 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 600 V rated value at 20 V rated	operating current at AC-12 maximum	10 A
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 126 V rated value at 220 V rated value at 220 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 25 V rated value at 25 V rated value at 26 V rated value at 27 V rated value at 28 V rated value at 29 V rated value at 30 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 20 V rated value at 60 V rated value	operating current at AC-15	
• at 500 V rated value • at 690 V rated value operating current at DC-12 • 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 110 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 100 V rated value • at 100 V rated value • at 100 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 • 6.1 A	• at 230 V rated value	10 A
• at 690 V rated value operating current at DC-12 • 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 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 10 A • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 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 • 6.1 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for three-phase AC motor	• at 400 V rated value	3 A
operating current at DC-12 • at 24 V rated value	• at 500 V rated value	2 A
• at 24 V rated value • at 48 V rated value • at 80 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 600 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 220 V rated value • at 38 V rated value • at 480 V rated value • at 110/120 V rated value • at 110/120 V rated value • at 230 V rated value • at 230 V rated value • for three-phase AC motor • at 230 V rated value • for three-phase AC motor	• 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 220 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at	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 60 V rated value • at 60 V rated value • at 10 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 120 V rated value • at 20 V rated value • at 30 V rated value • 4.8 A • at 600 V rated value • 4.8 A • at 600 V rated value • at 200 V rated value • 500 V rated value • 6.1 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • 600 V rated value	• 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 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 110 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 200 V rated value at 600 V rated value at 700 V rated value at 800 V rated value at 800 V rated value at 110 V rated value at 110 V rated value at 200 V rated value at 110 V rated value at 200 V rated value at 200 V rated value at 110 V rated value at 110 V rated value at 200 V rated value at 110 V rated v	● 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 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 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value 50 T A 	• 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 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 700 V rated value at 800 V rated value at 800 V rated value at 100 V rated value at 100 V rated value at 230 V rated value at 75 hp for three-phase AC motor	• at 110 V rated value	3 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 2 A • at 600 V rated value 1 A • at 110 V rated value 1 A • at 125 V rated value 1 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 • at 480 V rated value 4.8 A • at 600 V rated value 5.1 A ylelded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 0.25 hp — at 230 V rated value 0.75 hp • for three-phase AC motor	• 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 220 V rated value • at 600 V rated value • at 700 V rated value • at 80 V rated value • at 600 V rated value • at 600 V rated value • at 230 V rated value • for single-phase AC motor — at 110/120 V rated value • for three-phase AC motor	• 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 125 V rated value at 220 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 110/120 V rated value ot 75 hp for three-phase AC motor for three-phase AC motor 	• 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 125 V rated value at 220 V rated value at 600 V rated value 1 A 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 600 V rated value at 10/120 V rated value at 110/120 V rated value at 230 V rated value of or three-phase AC motor • for three-phase AC motor of three-phase AC motor • for three-phase AC motor of three-phase AC motor 	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 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 at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value at 230 V rated value of three-phase AC motor for three-phase AC motor at 230 V rated value	• 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 at 600 V rated value at 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 for single-phase AC motor at 10/120 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for three-phase AC motor 	• at 48 V rated value	2 A
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 4.8 A at 600 V rated value 5.1 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 • for three-phase AC motor • for three-phase AC motor	• 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 4.8 A at 600 V rated value for single-phase AC motor — at 110/120 V rated value — at 230 V rated value other index of the contact	• 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 for single-phase AC motor at 110/120 V rated value at 230 V rated value for three-phase AC motor o 125 hp o 175 hp o 175 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 • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for three-phase AC motor • for three-phase AC motor • for three-phase AC motor	• 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 4.8 A • at 600 V rated value 6.1 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 0.25 hp — at 230 V rated value 0.75 hp • for three-phase AC motor	• 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 6.1 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	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 for single-phase AC motor at 110/120 V rated value at 230 V rated value for three-phase AC motor 		
 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 	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 480 V rated value	
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for three-phase AC motor 0.25 hp 0.75 hp	• at 600 V rated value	6.1 A
 — at 110/120 V rated value — at 230 V rated value ● for three-phase AC motor 0.25 hp 0.75 hp 		
— at 230 V rated value 0.75 hp • for three-phase AC motor	for single-phase AC motor	
• for three-phase AC motor	— at 110/120 V rated value	0.25 hp
	— at 230 V rated value	0.75 hp
— at 200/208 V rated value 1.5 hp	• for three-phase AC motor	
	— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value 2 hp	— at 220/230 V rated value	2 hp
— at 460/480 V rated value 3 hp	— at 460/480 V rated value	3 hp
— at 575/600 V rated value 5 hp	— at 575/600 V rated value	5 hp

contact rating of auxiliary contacts according
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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: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A

(415V,80kA)

— with type of assignment 2 required

gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A

(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
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
mounting type	screw and snap-on mounting onto 35 mm standard mounting rai
	according to DIN EN 60715
side-by-side mounting	Yes
height	58 mm
width	45 mm
depth	73 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

• for auxiliary and control current circuit

screw-type terminals

• at contactor for auxiliary contacts

Screw-type terminals

• 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 mm ²
 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)
• type of connectable conductor cross-sections at	2x (20 16), 2x (18 14), 2x 12
AWG conductors for auxiliary contacts	
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; with 3RH29
T1 value for proof test interval or service life acc. to	20 y
IEC 61508	
protection against electrical shock	finger-safe
suitability for use safety-related switching OFF	Yes

General Product Approval







KC





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





LRS









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=3RT2015-1AR61

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-1AR61

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AR61

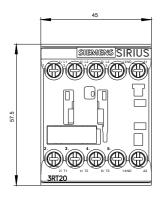
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-1AR61&lang=en

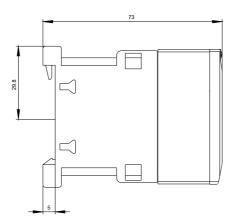
Characteristic: Tripping characteristics, I2t, Let-through current

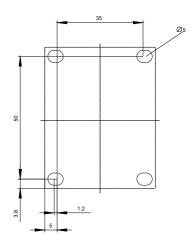
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-1AR61/char

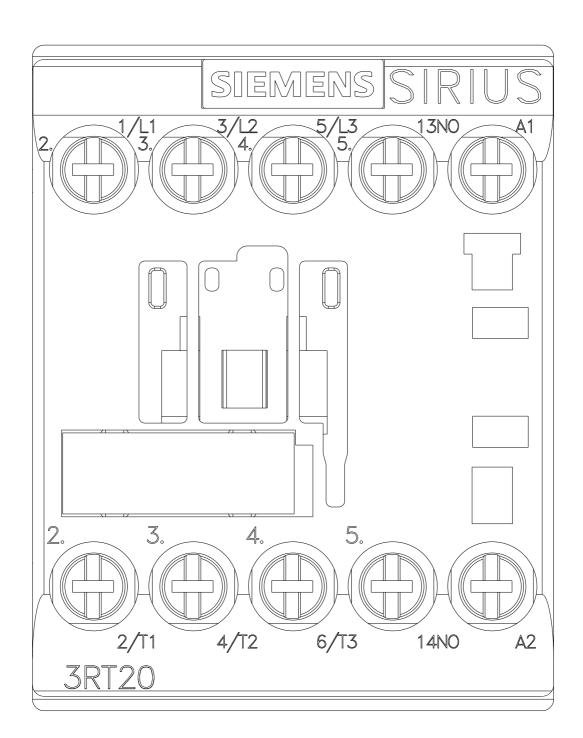
Further characteristics (e.g. electrical endurance, switching frequency)

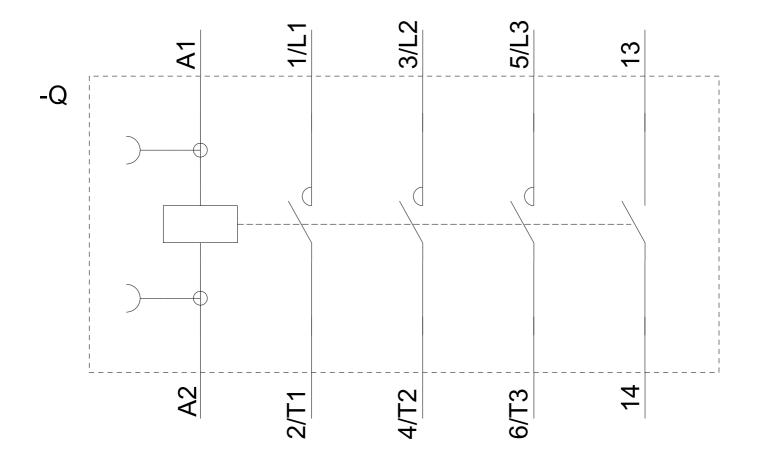
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-1AR61&objecttype=14&gridview=view1











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