SIEMENS

Data sheet 3RT2023-2AV00

power contactor, AC-3 9 A, 4 kW / 400 V 1 NO + 1 NC, 400 V AC, 50 Hz 3-pole, Size S0 Spring-type terminal



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

General technical data	
Size of contactor	S0
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	7.6 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	7,5g / 5 ms, 4,7g / 10 ms
Shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 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	000.14
at AC-3 rated value maximum	690 V
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	40 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	40 A
 up to 690 V at ambient temperature 60 °C rated value 	35 A
• at AC-2 at 400 V rated value	9 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
● at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	35.2 A
at AC-5b up to 400 V rated value	7.4 A
• at AC-6a	

— up to 230 V for current peak value n=20 rated value	11.4 A
 up to 400 V for current peak value n=20 rated value 	11.4 A
— up to 500 V for current peak value n=20 rated value	9.1 A
— up to 690 V for current peak value n=20 rated value	9 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	7.6 A
up to 400 V for current peak value n=30 rated value	7.6 A
 up to 500 V for current peak value n=30 rated value 	6.1 A
— up to 690 V for current peak value n=30 rated value	6.1 A
Minimum cross-section in main circuit	
• at maximum AC-1 rated value	10 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	4.1 A
• at 690 V rated value	3.3 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
Operating current	

	• at 1 current path at DC-3 at DC-5	
	— at 24 V rated value	20 A
- at 440 V rated value	— at 110 V rated value	2.5 A
■ at 600 V rated value ● with 2 current paths in series at DC-3 at DC-5 ■ at 24 V rated value ■ at 110 V rated value ■ at 120 V rated value ■ at 220 V rated value ■ at 440 V rated value ■ at 600 V rated value ■ at 110 V rated value ■ at 220 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 1220 V rated value ■ at 1220 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at AC-2 at 400 V rated value ■ at AC-2 at 400 V rated value ■ at AC-3 ■ at 230 V rated value ■ at 600 V rated value ■ at 690 V rated value ② by to 230 V for current peak value n=20 rated value ● up to 400 V for current peak value n=20 rated value ● up to 500 V for current peak value n=20 rated value ● up to 500 V for current peak value n=20 rated value ● up to 500 V for current peak value n=20 rated value ● up to 230 V for current peak value n=20 rated value ● up to 230 V for current peak value n=20 rated value ● up to 230 V for current peak value n=20 rated value ● up to 230 V for current peak value n=20 rated value ● up to 230 V for current peak value n=20 rated value ● up to 230 V for current peak value n=30 rated value ● up to 230 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 ra	— at 220 V rated value	1 A
with 2 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.09 A
- at 24 V rated value	— at 600 V rated value	0.06 A
- at 110 V rated value	• with 2 current paths in series at DC-3 at DC-5	
- at 220 V rated value	— at 24 V rated value	35 A
	— at 110 V rated value	15 A
— at 600 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value ② EW — at 400 V rated value ② EW ④ at 400 V rated value ④ at 400 V rated value ② at 690 V rated value ④ at 90 V rated value ④ at 690 V rated value ③ Tated value ④ at 690 V rated value ④ up to 500 V for current peak value n=20 rated value ④ up to 500 V for current peak value n=20 rated value ④ up to 500 V for current peak value n=20 rated value ④ up to 500 V for current peak value n=20 rated value ④ up to 500 V for current peak value n=20 rated value ④ up to 230 V for current peak value n=20 rated value ④ up to 230 V for current peak value n=30 rated value ④ up to 400 V for current peak value n=30 rated value ④ up to 400 V for current peak value n=30 rated value ④ up to 400 V for current peak value n=30 rated value ④ up to 400 V for current peak value n=30 rated value ④ up to 400 V for current peak value n=30 rated value ④ up to 400 V for current peak value n=30 rated value ④ up to 400 V for current peak value n=30 rated value	— at 220 V rated value	3 A
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 35 A — at 110 V rated value 10 A — at 440 V rated value 0.6 A — at 600 V rated value 0.6 A Operating power • at AC-2 at 400 V rated value 4 kW • at AC-3 — at 230 V rated value 2.2 kW — at 400 V rated value 4 kW — at 500 V rated value 4 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 kW — at 690 V rated value 2.5 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2.5 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 440 V rated value	0.27 A
- at 24 V rated value 35 A - at 110 V rated value 35 A - at 220 V rated value 10 A - at 440 V rated value 0.6 A - at 600 V rated value 0.6 A Coperating power • at AC-2 at 400 V rated value 4 kW • at AC-3 - at 230 V rated value 2.2 kW - at 400 V rated value 4 kW - at 500 V rated value 4 kW - at 690 V rated value 7.5 kW Coperating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW - at 690 V rated value 2.5 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2.5 kW Coperating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 600 V rated value	0.16 A
- at 110 V rated value	• with 3 current paths in series at DC-3 at DC-5	
- at 220 V rated value	— at 24 V rated value	35 A
- at 440 V rated value	— at 110 V rated value	35 A
— at 600 V rated value Operating power • at AC-2 at 400 V rated value • at AC-3 — 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 400 V rated value — at 690 V rated value • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 220 V rated value	10 A
Operating power • at AC-2 at 400 V rated value • at AC-3 — 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 Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 2 kW • at 690 V rated value 2 kW • at 690 V rated value 2 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 440 V rated value	0.6 A
at AC-2 at 400 V rated value at AC-3 — 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 7.5 kW Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 2 kW at 690 V rated value 2.5 kW Operating apparent output at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 5 200 V·A	— at 600 V rated value	0.6 A
at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 2 kW at 690 V rated value 2 kW Operating apparent output at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value	Operating power	
- at 230 V rated value - at 400 V rated value 4 kW - at 500 V rated value 7.5 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW • at 690 V rated value 2 2 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	• at AC-2 at 400 V rated value	4 kW
- at 400 V rated value 4 kW - at 500 V rated value 7.5 kW Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW • at 690 V rated value 2.5 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	• at AC-3	
- at 500 V rated value - at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 2 kW • at 690 V rated value 2.5 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 230 V rated value	2.2 kW
— at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value 2 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated	— at 400 V rated value	4 kW
Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 2 kW • at 690 V rated value 2.5 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value	— at 500 V rated value	4 kW
at AC-4 • at 400 V rated value • at 690 V rated value 2 kW 2.5 kW Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value Operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated	— at 690 V rated value	7.5 kW
at 690 V rated value Operating apparent output at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value Operating apparent output at AC-6a up to 230 V for current peak value n=30 rated value Operating apparent output at AC-6a up to 400 V for current peak value n=30 rated value Output Operating apparent output at AC-6a Operating a		
Operating apparent output at AC-6a • up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 5 200 V·A	● at 400 V rated value	2 kW
• up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value Operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 5 200 V·A	● at 690 V rated value	2.5 kW
value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value Operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 5 200 V·A	Operating apparent output at AC-6a	
value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value Operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 5 200 V·A	·	4 500 V·A
value • up to 690 V for current peak value n=20 rated value Operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 5 200 V·A		7 800 V·A
value Operating apparent output at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated 5 200 V·A		7 800 V·A
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated 5 200 V·A 		10 700 V·A
value ■ up to 400 V for current peak value n=30 rated 5 200 V·A	Operating apparent output at AC-6a	
	·	3 000 V·A
		5 200 V·A

• up to 500 V for current peak value n=30 rated value	5 200 V·A
 up to 690 V for current peak value n=30 rated value 	7 200 V·A
Short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	122 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	78 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	68 A; Use minimum cross-section acc. to AC-1 rated value
No-load switching frequency	
• at AC	5 000 1/h
Operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	1 000 1/h
• at AC-3 maximum	1 000 1/h
• at AC-4 maximum	300 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
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC	
• at E0 U=	65 V: A

Control circuit/ Control	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
● at 50 Hz rated value	400 V
Operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	65 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.82
Apparent holding power of magnet coil at AC	
● at 50 Hz	7.6 V·A
Inductive power factor with the holding power of the	
coil	
● at 50 Hz	0.25
Closing delay	
• at AC	9 38 ms
Opening delay	
• at AC	4 16 ms

Arcing time	10 10 ms
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
 instantaneous contact 	1
Number of NO contacts for auxiliary contacts	
• instantaneous contact	1
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	10 A
● at 400 V rated value	3 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	10 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	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 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	7.6 A
• at 600 V rated value	9 A
Yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	1 hp
• for three-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
at 225,250 V rated value	

— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Contact rating of auxiliary contacts according to UL	A600 / P600

Short-circuit protection	
Design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (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	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 rail
	according to DIN EN 60715
Side-by-side mounting	Yes
Height	102 mm
Width	45 mm
Depth	97 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 	spring-loaded terminals
 for auxiliary and control current circuit 	spring-loaded terminals

required

Spring-type terminals
Spring-type terminals
2x (1 10 mm²)
2x (1 10 mm²)
2x (1 6 mm²)
2x (1 6 mm²)
2x (18 8)
1 10 mm²
1 10 mm²
1 6 mm²
1 6 mm²
0.5 2.5 mm ²
0.5 1.5 mm ²
0.5 2.5 mm²
2x (0,5 2,5 mm²)
2x (0.5 1.5 mm²)
2x (0.5 2.5 mm²)
2x (20 14)
40 0
18 8 20 14
20 14
1 000 000
40.04
40 %
73 %
400 FIT
100 FIT
Yes

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 Certificates Special Test Certificates	ARS

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=3RT2023-2AV00

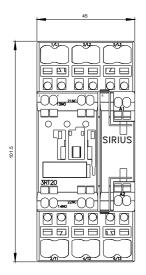
Cax online generator

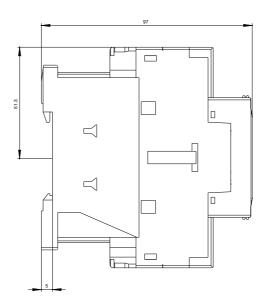
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-2AV00

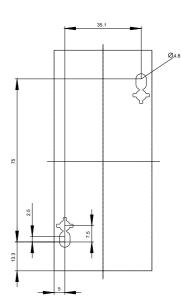
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-2AV00

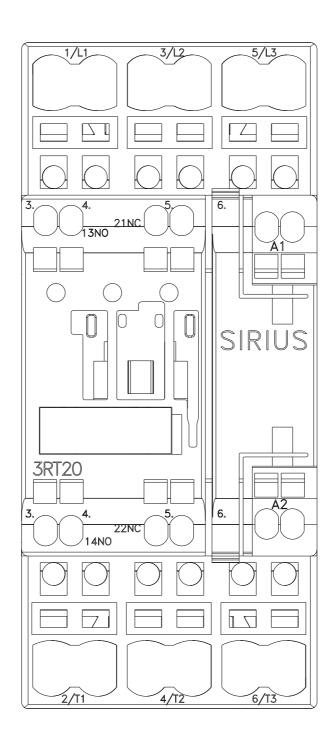
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-2AV00&lang=en

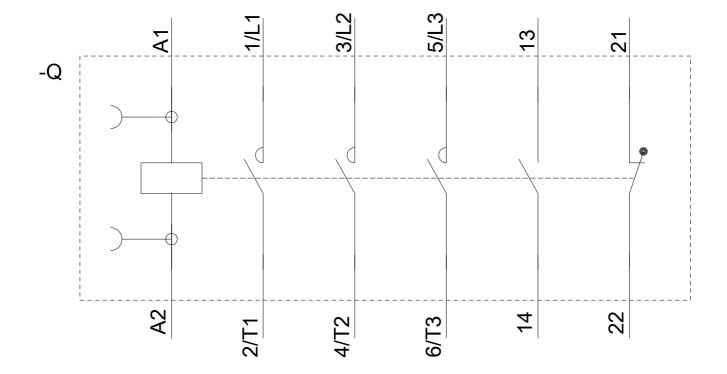
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-2AV00/char











last modified: 06/12/2020