SIEMENS

Data sheet



Power contactor, AC-3 7 A, 3 kW / 400 V 1 NO, 220 V AC, 50 / 60 Hz 3-pole, Size S00 Spring-type terminal upright mounting position

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
• per pole	0.4 W
power loss [W] for rated value of the current without load current share typical	4.2 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
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
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 electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009
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
relative burnidity minimum	-55 +60 C
relative humidity minimum	10 %

maximum	
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
at AC-3e rated value maximum	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	18 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	18 A
— up to 690 V at ambient temperature 60 °C rated value	16 A
• at AC-3	7.4
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
• at AC-3e	
— at 400 V rated value	7 A
— at 500 V rated value	6 A
— at 690 V rated value	4.9 A
 at AC-4 at 400 V rated value 	6.5 A
 at AC-5a up to 690 V rated value 	15.8 A
at AC-5b up to 400 V rated valueat AC-6a	5.8 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 up to 690 V for current peak value n=20 rated 	3.8 A 3.6 A
value • at AC-6a	0.0 A
 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 up to 690 V for current peak value n=30 rated 	2.5 A 2.4 A
value minimum cross-section in main circuit at maximum AC-1	2.5 mm ²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	2.6 A
at 400 V rated value at 690 V rated value	2.0 A 1.8 A
	1.0 Λ
operational current	
at 1 current path at DC-1 at 24 V rated value	15 A
— at 24 V rated value — at 110 V rated value	1.5 A
— at 110 V rated value — at 220 V rated value	0.6 A
— at 220 V rated value — at 440 V rated value	0.6 A 0.42 A
— at 600 V rated value	0.42 A
with 2 current paths in series at DC-1 at 24 V seted value.	45.0
— 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

### Control And Co	 with 3 current paths in series at DC-1 	
	•	15 Δ
at 600 V rated value		
- at 1 current path at DC-3 at DC-5		
		0.7 A
		45.4
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value • with 3 current paths in series at DC-3 at DC-5 — at 24 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 220 V rated value — at 220 V rated value — at 600 V rated value — at 600 V rated value — 3 kW • at AC-3 — at 230 V rated value — at 500 V rated value — at 600 V rated value		
		0.1 A
■ 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 120 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-2 at 400 V rated value ■ at AC-3 ■ at 230 V rated value ■ at 900 V rated value ■ up to 500 V for current peak value n=20 rated value ● up to 900 V for current peak value n=20 rated value ● up to 900 V for current peak value n=20 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=30 rated value ■ up to 500 V for current peak value n=50 rated value ■ up to 500 V for current peak value n=50 rated value ■ up to 500 V for current peak value n=50 rated value ■ up	•	45.4
with 3 current paths in series at DC-3 at DC-5		
		0.25 A
	•	45.4
O.14 A Operating power at AC-2 at 400 V rated value 3 kW at AC-3 at 200 V rated value 1.5 kW 3 kW at 400 V rated value 3 kW at 400 V rated value 3 kW at 400 V rated value 4 kW at 400 V rated value 4 kW at 400 V rated value 3 kW at 500 V rated value 4 kW at 600 V rated value 3 kW at 500 V rated value 4 kW at 600 V rated value 4 kW at 600 V rated value 2 kW at 600 V rated value 2 kW at 600 V roccurrent peak value n=20 rated value 2.7 kVA		
Operating power at AC-2 at 400 V rated value 3 kW at AC-3		
• 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 AC-3e — at 230 V rated value • at AC-3e — at 230 V rated value • at AC-3e — at 200 V rated value — at 690 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 • 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 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=50 rated value • up to 500 V for current peak value n=50 rated value • up to 600 V for current peak value n=50 rated value • up to 600 V for current peak value		0.14 A
- at AC-3 - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 690 V rated value - at 230 V rated value - at 500 V rated value - at 690 V rot 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=20 rated value - up to 690 V for current peak value n=20 rated value - up to 690 V for current peak value n=30 rated value - up to 400 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=30 rated value - up to 690 V for current peak value n=50 rated value - up to 690 V for current peak value n=50 rated value - up to 690 V for current peak value n=60 rated value - up to 690 V for current peak value n=60 rated value - up to 690 V for current peak value n=60 rated value - up to 690 V for current peak value n=60 rated value - up to 690 V for current peak value n=60 rated value - up to 690 V for current peak value n=60 rated value - up to 690 V for current peak value n=60 rated valu		2111
- at 230 V rated value - at 400 V rated value 3 kW - at 690 V rated value 4 kW - at 690 V rated value 4 kW - at 690 V rated value 5 kW - at 230 V rated value 1.5 kW - at 250 V rated value 2 kW - at 250 V rated value 3 kW - at 590 V rated value 3 kW - at 590 V rated value 4 kW - at 590 V rated value 3 kW - at 590 V rated value 4 kW - at 590 V rated value 5 kW - at 690 V rated value 6 kW - at 690 V rated value 7 kW - at 690 V rated value 8 kW - at 690 V rated value 9 kW - at 690 V rated value 1.15 kW - at 690 V for current peak value 1.20 rated value 1.15 kW - at 690 V for current peak value 1.20 rated value 1.15 kW - at 690 V for current peak value 1.20 rated value 1.30 kW - at 690 V for current peak value 1.20 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 690 V for current peak value 1.30 rated value 1.30 kW - at 600 V for current peak value 1.30 rated value 1.30 kW - at 600 V for current peak value 1.30 rated value 1.30 kW - at 600 V for current peak value 1.30 rated value 1.30 kW - at 600 V for current peak value 1.30 rated value 1.30 kW - at 600 V for current peak value 1.30 rated value 1.30 kW - at 600 V for current peak value 1.30 rated value 1.30 kW - at 600 V for current peak value 1.30 rated value 1.30 kW -		3 KW
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- at 500 V rated value		
at AC-3e — at 230 V rated value — at 400 V rated value — at 500 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 1.15 kW operating apparent power 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 operating apparent power 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=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value il mitted to 10 s switching at zero current maximum il mitted to 10 s switching at zero current maximum il mitted to 10 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switching at zero current maximum il mitted to 60 s switchin		
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- at 230 V rated value - at 400 V rated value - at 590 V rated value - at 690 V rated value - at 690 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 690 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=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 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 690 V for current peak value n=20		4 kW
- 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 • 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 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=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=50 rated value • up to 600 V for current peak value n=50 rated value • up to 600 V for		
- at 590 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 • 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 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=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60	— at 230 V rated value	1.5 kW
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 • 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 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current	— at 400 V rated value	3 kW
operating power for approx. 200000 operating cycles at AC-4 • 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 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 690 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated v	— at 500 V rated value	3 kW
at AC-4 • 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=30 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at	— at 690 V rated value	4 kW
• at 400 V rated value • at 690 V rated value • at 690 V 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 690 V for current peak value n=20 rated value • up to 230 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 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited for 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 750 1/h • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3e maximum • at AC-3e maximum • at AC-4 maximum		
operating apparent power at AC-6a out to 230 V for current peak value n=20 rated value out to 400 V for current peak value n=20 rated value out to 550 V for current peak value n=20 rated value out to 690 V for current peak value n=20 rated value out to 690 V for current peak value n=20 rated value out to 690 V for current peak value n=30 rated value out to 230 V for current peak value n=30 rated value out to 500 V for current peak value n=30 rated value out to 690 V for current peak value n=30 rated value out to 690 V for current peak value n=30 rated value out to 690 V for current peak value n=30 rated value out to 690 V for current peak value n=30 rated value out to 690 V for current peak value n=30 rated value out to 690 V for current peak value n=30 rated value out to 690 V for current in cold operating state up to 40 °C out limited to 1 s switching at zero current maximum out limited to 10 s switching at zero current maximum out limited to 10 s switching at zero current maximum out limited to 60 s switching at zero current maximum out limited to 60 s switching at zero current maximum out limited to 60 s switching at zero current maximum out limited to 60 s switching at zero current maximum out limited to 60 s switching at zero current maximum out to 67 A; Use minimum cross-section acc. to AC-1 rated value out to AC-1 rated value		1.15 kW
operating apparent power 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 230 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum	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 400 V for current peak value n=20 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 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value value nup to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value value nup to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 2.2 kVA 2.2 kVA 2.9 kVA 120 A; Use minimum cross-section acc. to AC-1 rated value 66 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 43 A; Use minimum cross-section acc. to AC-1 rated value 10 000 1/h orerating frequency at AC-1 maximum 1000 1/h 1000		
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=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 40 °C imited to 1 s switching at zero current maximum imited to 5 s switching at zero current maximum imited to 30 s switching at zero current maximum imited to 60 s switching at zero current maximum imited to 60 s switching at zero current maximum imited to 60 s switching at zero current maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum 2.7 kVA 3.3 kVA 4.3		1.5 kVA
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 power 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 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value value n=30 rated value 2.2 kVA 2.9 kVA Short-time withstand current in cold operating state up to 40 °C value limited to 1 s switching at zero current maximum value limited to 10 s switching at zero current maximum value limited to 30 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limited to 60 s switching at zero current maximum value limi	·	
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 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum 120 A; Use minimum cross-section acc. to AC-1 rated value 67 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 52 A; Use minimum cross-section acc. to AC-1 rated value 53 A; Use minimum cross-section acc. to AC-1 rated value 54 A; Use minimum cross-section acc. to AC-1 rated value 55 A; Use minimum cross-section acc. to AC-1 rated value 55 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section acc. to AC-1 rated value 56 A; Use minimum cross-section	short-time withstand current in cold operating state	
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 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC-1 rated value A; Use minimum cross-section acc. to AC	_	
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum 	 limited to 5 s switching at zero current maximum 	
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no-load switching frequency 10 000 1/h operating frequency 1 000 1/h • 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 750 1/h • at AC-4 maximum 250 1/h	 limited to 30 s switching at zero current maximum 	52 A; Use minimum cross-section acc. to AC-1 rated value
 ◆ at AC 10 000 1/h operating frequency ◆ at AC-1 maximum ◆ at AC-2 maximum ◆ at AC-3 maximum ◆ at AC-3 e maximum ◆ at AC-4 maximum ★ AC-4 maximum ★ AC-4 maximum 		43 A; Use minimum cross-section acc. to AC-1 rated value
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-3e maximum 750 1/h • at AC-4 maximum 250 1/h		
 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-3e maximum at AC-4 maximum 250 1/h 		10 000 1/h
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum at AC-4 maximum 250 1/h 		
 at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h 	• at AC-1 maximum	1 000 1/h
 at AC-3e maximum at AC-4 maximum 250 1/h 	• at AC-2 maximum	750 1/h
• at AC-4 maximum 250 1/h	• at AC-3 maximum	750 1/h
	• at AC-3e maximum	750 1/h
Control circuit/ Control	at AC-4 maximum	250 1/h
	Control circuit/ Control	

	10
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	27 VA
● at 60 Hz	24.3 VA
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	4.2 VA
● at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
at 50 Hz	0.25
at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational 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
operational 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
operational 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 3-phase AC motor	40.4
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	0.25 ha
— at 110/120 V rated value	0.25 hp 0.75 hp
— at 230 V rated value	

 ◆ for 3-phase AC motor 	
— at 200/208 V rated value	1.5 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	3 hp
— at 575/600 V rated value	5 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: 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	gG: 10 A (500 V, 1 kA)
required	go. 10 A (500 V, 110A)
Installation/ mounting/ dimensions	
mounting position	standing, on horizontal mounting surface
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	10 mm
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
for grounded partsforwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	10 111111
— 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 circuit 	spring-loaded terminals
at contactor for auxiliary contacts	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
 for main contacts 	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 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 mm ²
finely stranded without core end processing	0.5 2.5 mm ²
connectable conductor cross-section for auxiliary	
contacts	
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²

finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section	
 for main contacts 	20 12
 for auxiliary contacts 	20 12
Safety related data	
product function	
mirror contact acc. to IEC 60947-4-1	Yes; with 3RH29
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
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Certificates/ approvals	

Sertificates/ approvais

General Product Approval



Confirmation





<u>KC</u>



Machinery



Type Examination Certificate



UK Declaration of Conformity Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other



Confirmation



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=3RT2015-2AP01-1AA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-2AP01-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AP01-1AA0

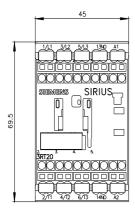
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-2AP01-1AA0&lang=en

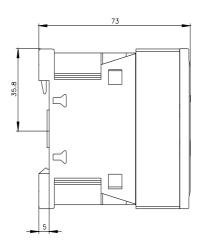
Characteristic: Tripping characteristics, I2t, Let-through current

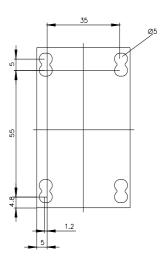
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-2AP01-1AA0/char

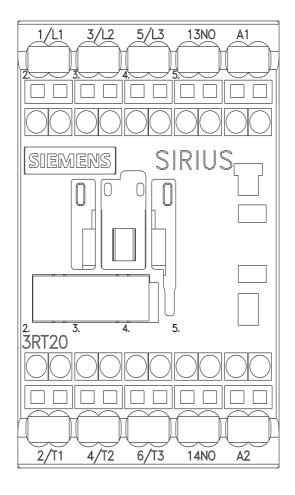
Further characteristics (e.g. electrical endurance, switching frequency)

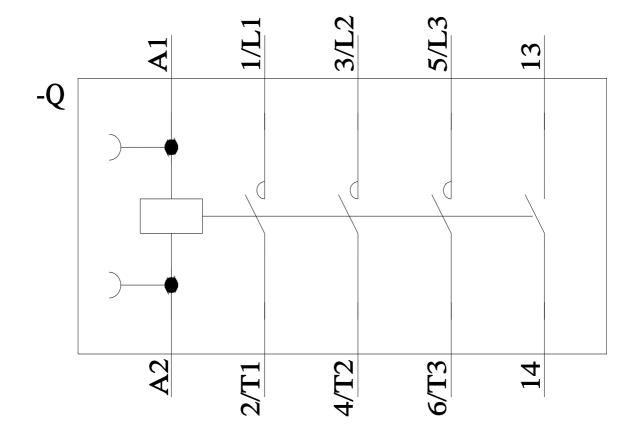
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-2AP01-1AA0&objecttype=14&gridview=view1











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