SIEMENS

Data sheet

3RT2028-1BB40-0CC0



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0, communication-capable

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	SO
product extension	
 function module for communication 	Yes
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	11.4 W
 at AC in hot operating state per pole 	3.8 W
 without load current share typical 	5.9 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
● at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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 humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	3

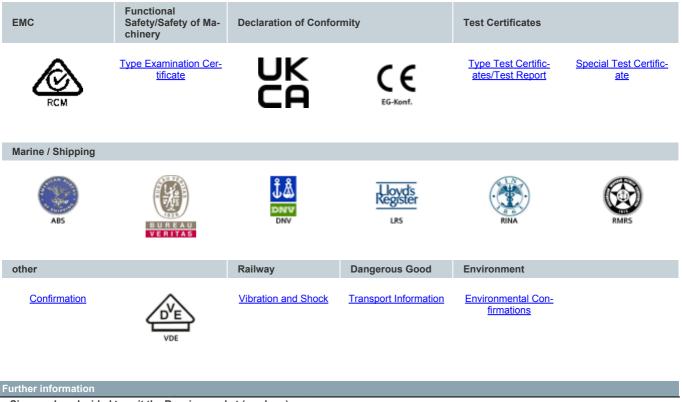
number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated value	50 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-4 at 400 V rated value	22 A
 at AC-5a up to 690 V rated value 	44 A
 at AC-5b up to 400 V rated value 	31.5 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	30.8 A
— up to 400 V for current peak value n=20 rated value	30.8 A
— up to 500 V for current peak value n=20 rated value	30.8 A
— up to 690 V for current peak value n=20 rated value	21 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	20.5 A
— up to 400 V for current peak value n=30 rated value	20.5 A
— up to 500 V for current peak value n=30 rated value	21.4 A
— up to 690 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated	10 mm ²
value	
operational current for approx. 200000 operating cycles at	
operational current for approx. 200000 operating cycles at AC-4	- 12 A
operational current for approx. 200000 operating cycles at	12 A 12 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value	
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current	
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1	12 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value	12 A 35 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value	12 A 35 A 20 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 110 V rated value	12 A 35 A 20 A 4.5 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value	12 A 35 A 20 A 4.5 A 1 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 10 V rated value at 110 V rated value at 220 V rated value at 440 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 10 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value	12 A 35 A 20 A 4.5 A 1 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value with 2 current paths in series at DC-1 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 600 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 60 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 100 V rated value at 100 V rated value at 200 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 20 V rated value at 400 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A 35 A 1 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 20 V rated value at 440 V rated value at 400 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 440 V rated value at 20 V rated value at 20 V rated value at 440 V rated value at 20 V rated value at 40 V rated value at 40 V rated value at 40 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A 35 A 35 A 36 A 36 A 36 A 36 A 36 A 36 A 36 A 37 A 38 A 38 A 38 A 38 A 38 A 39 A 39 A 30
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 10 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 440 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 20 V rated value at 400 V rated value at 20 V rated value at 220 V rated value at 240 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 600 V rated value at 600 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value — at 220 V rated value — at 240 V rated value — at 600 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 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 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 440 V rated value at 600 V rated value at 410 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 220 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 60 V rated value - at 210 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 220 V rated value - at 600 V rated value - at 24 V rated value - at 600 V rated value - at 440 V rated value - at 600 V rated value - at 220 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 2.9 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 0 V rated value - at 20 V rated value - at 20 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value - at 24 V rated value - at 600 V rated value - at 24 V rated value - at 600 V rated value - at 440 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated value - at 24 V rated value - at 440 V rated value - at 600 V rated value - at 24 V rated value - at 20 V rated value - at 20 V rated value - at 20 V rated value - at 40 V rated value - at 40 V rated value - at 40 V rated value - at 440 V rated value - at 440 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 20 V rated value — at 210 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 1 A 0.8 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A 1 A 0.8 A 35
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 0 V rated value - at 20 V rated value - at 20 V rated value - at 440 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value - at 24 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value - at 440 V rated value - at 600 V rated value - at 220 V rated value - at 440 V rated value - at 24 V rated value - at 440 V rated value - at 600 V rated value - at 24 V rated value - at 20 V rated value - at 20 V rated value - at 20 V rated value - at 40 V rated value - at 40 V rated value - at 40 V rated value - at 440 V rated value - at 440 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 20 A
 operational current for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value operational current at 1 current path at DC-1 at 24 V rated value at 60 V rated value at 10 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 220 V rated value at 24 V rated value at 20 V rated value at 20 V rated value at 400 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 210 V rated value at 240 V rated value at 220 V rated value at 240 V rated value at 220 V rated value at 440 V rated value at 600 V rated value 	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35 A 1 A 0.8 A 35 A 35 A 35 A 35 A 35 A 35 A 35 A 1 A 0.8 A 35
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — at 440 V rated value — at 600 V rated value — at 440 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35
operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 60 V rated value — at 60 V rated value — at 20 V rated value — at 60 V rated value — at 60 V rated value — at 20 V rated value — at 20 V rated value — at 440 V rated value — at 600 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — at 220 V rated value — at 600 V rated value	12 A 35 A 20 A 4.5 A 1 A 0.4 A 0.25 A 35

	— at 600 V rated value	0.06 A
	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	35 A
al 220 Y rated value3 A al 400 Y rated value027 A al 600 V rated value03 A al 20 V rated value35 A al 50 V rated value35 A al 50 V rated value35 A al 20 V rated value00 A al 20 V rated value00 A al 20 V rated value05 A	— at 60 V rated value	35 A
	— at 110 V rated value	15 A
	— at 220 V rated value	3 A
• with 3 current paths is acries at DC-3 at DC-3S- at 20 V raide value35 A- at 20 V raide value35 A- at 20 V raide value36 A- at 20 V raide value06 A- at 20 V raide value06 A- at 20 V raide value10 A- at 20 V raide value10 A- at 20 V raide value11 MV- at 400 V raide value11 MV- at 200 V raide value10 S MV- at 200 V raide value12 2 MA- at 200 V raide value12 2 MA- at 200 V raide value m20 raide value12 2 MA- at 200 V for current pack value m20 raide value12 2 MA- at 200 V for current pack value m20 raide value12 2 MA- at 200 V for current pack value m20 raide value12 2 MA- at 200 V for current pack value m20 raide value12 2 MA- at 200 V for current pack value m20 raide value12 2 MA- at 200 V for current pack value m20 raide value12 2 MA- at 200 V for current pack value m20 raide value13 S MA- at 200 V for current pack value m20 raide value13 S MA- at 200 V for current pack value m20 raide value13 S MA- at 200 V for current pack value m20 raide value10 S MA- at 200 V for curren	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	35 A
	— at 60 V rated value	35 A
	— at 110 V rated value	35 A
− at 800 V rated value 0.6 Å operating power - - at 230 V rated value 11 kW - at 800 V rated value 16 S kW - at 800 V rated value 18 S kW - at 800 V rated value 18 S kW - at 800 V rated value 18 S kW - at 800 V rated value 10.3 kW operating power for a proc. 20000 operating cycles at AC 6 kW - at 800 V rated value 10.3 kW operating power to approc. 20000 operating cycles at AC 6 kW - at 800 V frated value 6 kW - at 800 V frated value = 20 rated value 2.2 kVA - up to 500 V for current pack value = 20 rated value 2.3 kVA - up to 500 V for current pack value = 20 rated value 2 kVA - up to 500 V for current pack value = 20 rated value 2 kVA - up to 500 V for current pack value = 20 rated value 2 kVA - up to 500 V for current pack value = 30 rated value 2 kVA - up to 500 V for current pack value = 30 rated value 503 A. Use minimum cross-section acc. to AC-1 rated value - up to 500 V for current pack value = 30 rated value 503 A. Use minimum cross-section acc. to AC-1 rated value - initiate to 1 s switching at zero current maximum 503 A. Use minimum cross-section acc. to AC-1 rated value - initiate to 1 s switching at zero current maximum 100	— at 220 V rated value	10 A
operating power at AC-23 at AC-24 (AC-3) at AC-20 Vinited value at AC-30 Vinited value at AC-00 Vinited value at AC-01 Vinited value in 20 rated value at AC-01 Vinited value in 20 rated value at AC-01 Vinited value in 20 rated value at AC-00 Vinited value in 20 rated value at AC-01 Vincited value in 20 rated value at AC-01 Vincited value in 20 rated value at AC-01 Vincited value in 20 rated value	— at 440 V rated value	0.6 A
• at AC3 11 kW - at 230 V rated value 11 kW - at 250 V rated value 15 kW - at 500 V rated value 15 kW - at 500 V rated value 15 kW - at 600 V rated value 15 kW - at 600 V rated value 10 kW - at 600 V rated value 20 kW - at 600 V fracturent pack value n20 rated value 21 kWA - up to 600 V for current pack value n20 rated value 25 kWA - up to 500 V for current pack value n20 rated value 25 kWA - up to 500 V for current pack value n20 rated value 25 kWA - up to 500 V for current pack value n30 rated value 8.1 kWA - up to 500 V for current pack value n30 rated value 15 kWA - up to 500 V for current pack value n30 rated value 15 kWA - up to 500 V for current pack value n30 rated value 50 kA, Use minimum cross-section acc. to AC-1 rated value - up to 500 V for current pack value n30 rated value 50 kA, Use minimum cross-section acc. to AC-1 rated value - united to 1 s switching at zero current maximum 50 A, Use minimum cross-section acc. to AC-1 rated value - united to 1 s switching at zero current maxim	— at 600 V rated value	0.6 A
	operating power	
	• at AC-3	
	— at 230 V rated value	11 kW
	— at 400 V rated value	18.5 kW
operating power for approx. 200000 operating cycles at AC- 4 6 4 4400 V rated value 6 kW • at 400 V rated value 10.3 kW operating apparent power at AC-6a 12.2 kVA • up to 230 V for current peak value n=20 rated value 21.3 kVA • up to 500 V for current peak value n=20 rated value 21.3 kVA • up to 500 V for current peak value n=20 rated value 25.8 kVA • up to 500 V for current peak value n=20 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 8.1 kVA • up to 500 V for current peak value n=30 rated value 8.1 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • initied to 1 s switching at zero current maximum 593 A: Use minimum cross-section acc. to AC-1 rated value	— at 500 V rated value	18.5 kW
	— at 690 V rated value	18.5 kW
• at 400 V rated value 6 kW • at 690 V rated value 10.3 kW operating apparent power at AC-6a 2.2 kVA • up to 200 V for current peak value n=20 rated value 2.1 3 kVA • up to 500 V for current peak value n=20 rated value 2.5 kVA • up to 500 V for current peak value n=20 rated value 2.5 kVA • up to 500 V for current peak value n=20 rated value 2.5 kVA • up to 500 V for current peak value n=30 rated value 8.1 kVA • up to 500 V for current peak value n=30 rated value 8.1 kVA • up to 500 V for current peak value n=30 rated value 2.5 kVA • up to 500 V for current peak value n=30 rated value 2.5 kVA • up to 500 V for current peak value n=30 rated value 2.5 kVA • up to 500 V for current peak value n=30 rated value 2.5 kVA • up to 500 V for current peak value n=30 rated value 2.5 kVA • up to 500 V for current pask value n=30 rated value 2.5 kVA • up to 500 V for current pask value n=30 rated value 2.5 kVA • up to 500 V for current pask value n=30 rated value 2.5 kVA • up to 500 V for current pask value n=30 rated value 2.5 kVA • up to 500 V for current pask value n=30 rated value 2.5 kVA • limited to 1 s switching at zero current maximum 1.94 kVB • at DC 1.000 1/h		
• at 690 V rated value 10.3 kW operating apparent power at AC-6a 12.2 kVA • up to 500 V for current peak value n=20 rated value 25.8 kVA • up to 500 V for current peak value n=20 rated value 25.8 kVA • up to 500 V for current peak value n=20 rated value 25.8 kVA operating apparent power at AC-6a IVA • up to 500 V for current peak value n=20 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 14.2 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • up to 500 V for current peak value n=30 rated value 25.8 kVA • at 60 th current peak value n=30 rated value 26.8 kVA • ilmited to 1 s switching at zero current maximum 34.1 k. Use minim		6 1/11
operating apparent power at AC-6a 12.2 kVA u p to 230 V for current peak value m=20 rated value 21.3 kVA u p to 500 V for current peak value m=20 rated value 21.8 kVA u p to 500 V for current peak value m=20 rated value 25.6 kVA operating apparent power at AC-6a 8.1 kVA u p to 230 V for current peak value m=30 rated value 8.1 kVA u p to 230 V for current peak value m=30 rated value 8.1 kVA u p to 230 V for current peak value m=30 rated value 8.1 kVA u p to 230 V for current peak value m=30 rated value 8.1 kVA u p to 500 V for current peak value m=30 rated value 8.1 kVA u p to 500 V for current peak value m=30 rated value 8.1 kVA u p to 500 V for current peak value m=30 rated value 8.1 kVA u p to 500 V for current peak value m=30 rated value 25 kVA short-time withstand current in cold operating state up to 40 °C 593 A; Use minimum cross-section acc. to AC-1 rated value e initied to 1 s switching at zero current maximum 593 A; Use minimum cross-section acc. to AC-1 rated value e initied to 60 s switching at zero current maximum 162 A; Use minimum cross-section acc. to AC-1 rated value e at DC 1 500 1/h 1000 1/h e at AC-1 maximum 1000 1/		
• up to 230 V for current peak value n=20 rated value 12.2 kVA • up to 600 V for current peak value n=20 rated value 21.3 kVA • up to 650 V for current peak value n=20 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 630 V for current peak value n=30 rated value 8.1 kVA • up to 630 V for current peak value n=30 rated value 8.1 kVA • up to 630 V for current peak value n=30 rated value 8.1 kVA • up to 630 V for current peak value n=30 rated value 25 kVA • up to 630 V for current peak value n=30 rated value 8.1 kVA • up to 630 V for current peak value n=30 rated value 25 kVA • up to 630 V for current peak value n=30 rated value 25 kVA • up to 630 V for current peak value n=30 rated value 14.2 kVA • up to 630 V for current peak value n=30 rated value 15 kVA • up to 630 V for current peak value n=30 rated value 15 kVA • up to 630 V for current peak value n=30 rated value 15 kVA • up to 630 V for current peak value n=30 rated value 15 kVA • limited to 10 s witching at zero current maximum 160 k. Use minimum cross-section acc. to AC-1 rated value • limited to 10 s witching at zero current maximum 160 k. Use minimum cross-section acc. to		10.3 KVV
• up to 400 V for current peak value n=20 rated value 21.3 kVA • up to 500 V for current peak value n=20 rated value 26.6 kVA • up to 500 V for current peak value n=20 rated value 25 kVA • up to 230 V for current peak value n=30 rated value 8.1 kVA • up to 500 V for current peak value n=30 rated value 8.1 kVA • up to 500 V for current peak value n=30 rated value 8.1 kVA • up to 500 V for current peak value n=30 rated value 8.5 kVA • up to 500 V for current peak value n=30 rated value 25 kVA • up to 500 V for current peak value n=30 rated value 25 kVA • up to 500 V for current peak value n=30 rated value 25 kVA • up to 500 V for current peak value n=30 rated value 25 kVA • up to 500 V for current meak value n=30 rated value 25 kVA • up to 500 V for current peak value n=30 rated value 25 kVA • initiet to 1 s switching at zero current maximum 593 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 190 A; Use minimum cross-section acc. to AC-1 rated value • initie to 50 s switching at zero current maximum 190 A; Use minimum cross-section acc. to AC-1 rated value • at DC 1500 1/h • at AC-2 maximum 500		40.0 10/4
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• up to 690 V for current peak value n=20 rated value 25 kVA operating apparent power at AC-5a 8.1 kVA • up to 600 V for current peak value n=30 rated value 14.2 kVA • up to 500 V for current peak value n=30 rated value 18.5 kVA • up to 600 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current peak value n=30 rated value 25 kVA • up to 610 V for current maximum 593 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 199 A; Use minimum cross-section acc. to AC-1 rated value • at DC 1 500 1/h 160 1/h • at DC 1 500 1/h 1 500 1/h • at AC-2 maximum 750 1/h		
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• up to 230 V for current peak value n=30 rated value8.1 kVA• up to 400 V for current peak value n=30 rated value14.2 kVA• up to 500 V for current peak value n=30 rated value18.5 kVA• up to 500 V for current peak value n=30 rated value25 kVAchort-time withstand current in cold operating state up to 40 °C593 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 1 s switching at zero current maximum341 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum260 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum192 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum192 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum162 A; Use minimum cross-section acc. to AC-1 rated valuee limited to 10 s switching at zero current maximum162 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency1 500 1/he at AC-1 maximum1 600 1/he at AC-1 maximum250 1/hcontrol circuit/ Control250 1/hControl circuit/ Control24 Voperating range factor control supply voltageDCcontrol supply voltage at DC5.9 We intild value0.8intild value0.8intild value5.9 Wholding power of magnet coil at DC5.9 Wclosing delay5.9 We at DC5.9 W <tr <="" td=""></tr>		ZƏ KVA
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• up to 500 V for current peak value n=30 rated value 18.5 kVA • up to 690 V for current peak value n=30 rated value 25 kVA short-time withstand current in cold operating state up to 40 °C - • limited to 1 s switching at zero current maximum 593 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 260 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 260 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 162 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 162 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 162 A; Use minimum cross-section acc. to AC-1 rated value • at AC-1 maximum 162 A; Use minimum cross-section acc. to AC-1 rated value • at AC-2 maximum 1000 1/h • at AC-3 maximum 1000 1/h • at AC-3 maximum 250 1/h Control circuit/ Control V • ype of voltage of the control supply voltage DC control supply voltage at DC 0.8 • rated value 0.8 • uinitial value 0.8 <td></td> <td></td>		
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• limited to 5 s switching at zero current maximum341 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum260 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum199 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum162 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum0.8• at AC-4 maximum0.8• at AC-4 maximum0.8• at AC-4 maximum1.1• control supply voltage rated value of magnet coil at DC0.8• full-scale value1.1• full-scale value1.1• full-scale value5.9 W• holding power of magnet coil at DC5.9 W• at DC50 170 ms		
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• limited to 60 s switching at zero current maximum162 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency1 500 1/h• at DC1 500 1/hoperating frequency000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• at AC-4 maximumDC• at AC-4 maximumDC• at AC-4 maximum250 1/h• at AC-4 maximumDC• at AC-4 maximum24 V• at AC-4 maximum0.8• rated value0.8• rated value0.8• initial value0.8• full-scale value1.1• closing power of magnet coil at DC5.9 W• holding power of magnet coil at DC5.9 W• at DC50 170 ms	 limited to 10 s switching at zero current maximum 	
no-load switching frequency• at DC1 500 1/hoperating frequency	 limited to 30 s switching at zero current maximum 	199 A; Use minimum cross-section acc. to AC-1 rated value
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• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC24 V• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC0.8• initial value0.8• full-scale value5.9 Wholding power of magnet coil at DC5.9 W• at DC50 170 ms	• at AC-2 maximum	750 1/h
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control supply voltage at DC 24 V operating range factor control supply voltage rated value of magnet coil at DC 0.8 • initial value 0.8 • full-scale value 1.1 closing power of magnet coil at DC 5.9 W holding power of magnet coil at DC 5.9 W closing delay 50 170 ms	Control circuit/ Control	
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magnet coil at DC • initial value 0.8 • full-scale value 1.1 closing power of magnet coil at DC 5.9 W holding power of magnet coil at DC 5.9 W closing delay 5.9 W • at DC 50 170 ms	rated value	24 V
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closing power of magnet coil at DC 5.9 W holding power of magnet coil at DC 5.9 W closing delay 5.9 W • at DC 50 170 ms	• initial value	0.8
holding power of magnet coil at DC 5.9 W closing delay 50 170 ms	• full-scale value	1.1
closing delay • at DC 50 170 ms	closing power of magnet coil at DC	5.9 W
• at DC 50 170 ms	holding power of magnet coil at DC	5.9 W
	closing delay	
opening delay	• at DC	50 170 ms
	opening delay	

• at DC	15 17.5 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2, optionally via function module
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
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	
at 480 V rated value	34 A
at 600 V rated value	27 A
yielded mechanical performance [hp]	
for single-phase AC motor at 110(120 V reted value	2 hz
— at 110/120 V rated value — at 230 V rated value	3 hp 5 hp
for 3-phase AC motor	5 tip
- at 200/208 V rated value	10 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	25 hp
— at 575/600 V rated value	25 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: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	85 mm
width	45 mm
depth	107 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
onnections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control 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	$2v(4 - 2Emm^2) 2v(2E - 40mm^2)$
• solid	$2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$
solid or stranded	$2x (1 \dots 2.5 \text{ mm}^2), 2x (2.5 \dots 10 \text{ mm}^2)$
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
stranded	1 10 mm²
 finely stranded with core end processing 	1 10 mm ²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	
 for main contacts 	16 8
 for auxiliary contacts 	20 14
afety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	
with low demand rate according to SN 31920	40 %
with high demand rate according to SN 31920	73 %
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
T1 value for proof test interval or service life according to IEC 61508	20 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
• •	
ertificates/ approvals General Product Approval	

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Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2028-1BB40-0CC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1BB40-0CC0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1BB40-0CC0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

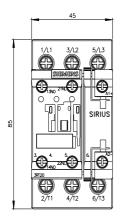
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-1BB40-0CC0&lang=en

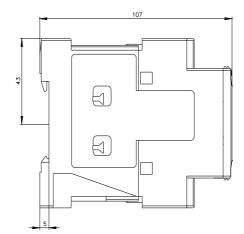
Characteristic: Tripping characteristics, I²t, Let-through current

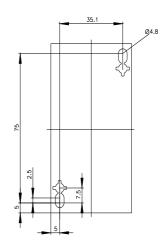
https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1BB40-0CC0/char

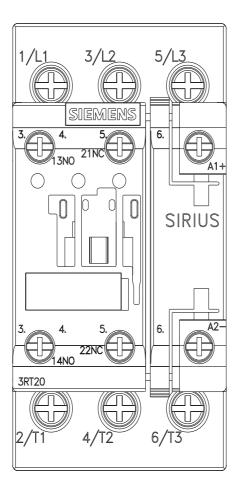
Further characteristics (e.g. electrical endurance, switching frequency)

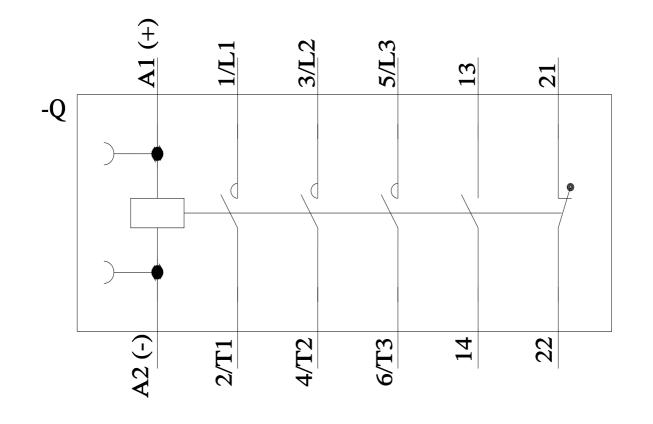
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-1BB40-0CC0&objecttype=14&gridview=view1











last modified:

2/10/2023 🖸