SIEMENS

Data sheet

3RT2027-2AL20



Power contactor, AC-3 32 A, 15 kW / 400 V 1 NO + 1 NC, 230 V AC 50/60 Hz, 3-pole Size S0, Spring-type terminals

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 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	6.3 W
 at AC in hot operating state per pole 	2.3 W
without load current share typical	10.5 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 according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	8,3g / 5 ms, 5,3g / 10 ms
shock resistance with sine pulse	
• at AC	13,5g / 5 ms, 8,3g / 10 ms
mechanical service life (switching 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 %

number of 0 contacts for main control circuit 3 operating voltage 3 • at AC-3 rated value maximum 680 V • at AC-1 rated value 50 A - up to 680 V at ambient temperature 40 °C 50 A rated value 50 A - up to 680 V at ambient temperature 40 °C 70 A - at 400 V rated value 32 A - at 400 V rated value 30 A - at 400 V rated value 30 A - at 400 V rated value 40 A - at 40	Main circuit	
number of NO contacts for main contacts 3 operating volue maximum 680 v • at AC-3 rated value maximum 680 v • at AC-3 rated value maximum 680 v • at AC-3 rated value maximum 680 v • at AC-1 at 400 V at ambient temperature 40 °C 50 A • at AC-1 at 400 V at ambient temperature 40 °C 50 A • at AC-1 at 400 V rated value 32 A - at 600 V rated value 30 A - at 600 V rated value 30 A - at 600 V for current peak value me20 rated 30 A - aub 60 V for current		3
• # AC-3 raied value maximum600 Voperational current600 V• # AC-1 at 400 V at ambient temperature 40 °C50 A• at AC-1 at 400 V at ambient temperature 40 °C50 A• at AC-150 A• at AC-1400 V at ambient temperature 40 °C• at AC-150 A• at AC-1 at 400 V rated value50 A• at AC-150 A• at AC-250 A• at AC-321 A• at AC-3 at ADO V rated value50 A• at AC-3 at ADO V rated value50 A• at AC-4 at ADO V rated value50 A• at AC-5 at D 50 V for current peak value n=20 rated70 A• at AC-5 at D 50 V for current peak value n=20 rated70 A• at AC-5 at AC-410 A• at AC-5 at A21 A• at AC-5 at AC-410 A• at	number of NO contacts for main contacts	3
• # AC-3c rated value maximum680 Voperational current50 Arated value50 A• at AC-1•- up to 680 V at ambient temperature 40 °C50 Arated value50 A- up to 680 V at ambient temperature 60 °C42 A• at AC-3•- at 400 V rated value32 A• at AC-332 A- at 600 V rated value32 A- at 600 V rated value30 A- at 600 V rated value44 A- at AC-3e- at 600 V rated value- up to 500 V for current peak value n=20 rated70 A- up to 600 V for current peak value n=20 rated70 A- up to 600 V for current peak value n=30 rated50 A- up to 600 V for current peak value n=30 rated50 A- up to 600 V for current peak value n=30 rated50 A- up to 600 V for current peak value n=30 rated10 rm²- up to 600 V for current peak value n=30 rated10 rm²- at 600 V rated value10 A- up to 600	operating voltage	
operational current operational current ai AC-14 400 via ambient temperature 40 °C 50 A	 at AC-3 rated value maximum 	690 V
• at AC-1 at 400 v1 ambient temperature 40 °C 50 A • up to 569 v1 at ambient temperature 60 °C 50 A • up to 569 v1 at ambient temperature 60 °C 42 A • up to 569 v1 at ambient temperature 60 °C 42 A • up to 509 v1 at ambient temperature 60 °C 42 A • up to 509 v1 at ambient temperature 60 °C 42 A • up to 509 v1 at ambient temperature 60 °C 42 A • up to 509 v1 at ambient temperature 60 °C 42 A • up to 509 v1 at ambient temperature 60 °C 42 A • up to 509 v1 at ambient temperature 60 °C 42 A • up to 509 v1 at ambient temperature 60 °C 42 A • up to 500 v1 at at value 32 A • up to 700 v1 at at value 32 A • up to 700 v1 at at value 22 A • up to 400 v1 at at value 22 A • up to 400 v1 at at value 42 A • up to 400 v1 at at value 40 A • up to 500 v1 for current peak value n=20 rated 40 A • up to 500 v1 for current peak value n=30 rated 20.5 A • up to 500 v1 for current peak value n=30 rated 18 A • up to 500 v1 for current peak value n=30 rated	 at AC-3e rated value maximum 	690 V
retar value i al AC-1	operational current	
 ei AC-1 up to 800 V at ambient temperature 40 °C ried Vaule - up to 800 V at ambient temperature 60 °C ried Vaule ei AC-3 - ei 400 V rated value 2 A - ei 500 V rated value 21 A - ei 400 V rated value 22 A - ei 400 V rated value 22 A - ei 600 V rated value 22 A - ei 70 Current pack value n=20 rated - up fo 600 V for current pack value n=20 rated - up fo 600 V for current pack value n=20 rated - up fo 600 V for current pack value n=20 rated - up fo 600 V for current pack value n=20 rated - up fo 600 V for current pack value n=30 rated - up fo 600 V for current pack value n=30 rated - up fo 600 V for current pack value n=30 rated - up fo 600 V for current pack value n=30 rated - up fo 600 V for current pack value n=30 rated - up fo 600 V for current pack value n=30 rated - up fo 600 V for current pack value n=30 rated - ei 600 V rated value - ei 600 V for current pack value n=30 rated - ei 600 V for current pack value n=30 rated - ei 600 V for current pack value n=30 rated - ei 620 V for current pack value n=30 rated - ei 620 V for current pack value n=30 rated - ei 620 V for current pack va		50 A
		50 A
raide value in the construction of the constru		42 A
	• at AC-3	
	— at 400 V rated value	32 A
	— at 500 V rated value	32 A
	— at 690 V rated value	21 A
- at 500 V rated value32 Å- at 690 V rated value21 Å- at 690 V rated value22 Å- at 44 00 V rated value22 Å- at AC-5a up to 690 V rated value24 Å- at AC-5a up to 100 V for current peak value n=20 rated30.8 Å- up to 100 V for current peak value n=20 rated30.8 Å- up to 500 V for current peak value n=20 rated30.8 Å- up to 500 V for current peak value n=20 rated21 Å- up to 500 V for current peak value n=20 rated21 Å- up to 500 V for current peak value n=20 rated20.5 Å- up to 500 V for current peak value n=30 rated20.5 Å- up to 500 V for current peak value n=30 rated20.5 Å- up to 500 V for current peak value n=30 rated18 Å- up to 500 V for current peak value n=30 rated18 Å- up to 600 V for current peak value n=30 rated12 Å- at 400 V rated value12 Å- at 400 V rated value20.5 Å- at 400 V rated value20.5 Å- at 400 V rated value18 Å- at 400 V rated value12 Å- at 400 V rated value20.5 Å- at 400 V rated value35 Å- at 400 V	• at AC-3e	
	— at 400 V rated value	32 A
• at AC-4 at 400 V rated value 22 A • at AC-5a up to 690 V rated value 26 A • at AC-5a up to 400 V for current peak value n=20 rated 30.8 A - up to 500 V for current peak value n=20 rated 30.8 A - up to 500 V for current peak value n=20 rated 30.8 A - up to 500 V for current peak value n=20 rated 21 A - up to 500 V for current peak value n=20 rated 21 A - up to 500 V for current peak value n=30 rated 20.5 A - up to 500 V for current peak value n=30 rated 20.5 A - up to 500 V for current peak value n=30 rated 18 A - up to 600 V for current peak value n=30 rated 10 mm² outer 10 mm² et at 00 V for durent peak value n=30 rated 10 mm² operational current for approx. 200000 operating 20.5 A et at 00 V for durent peak value n=30 rated 10 mm² et at 00 V fated value 20 FA • at 400 V fated value 25 A	— at 500 V rated value	32 A
• at AC-5a up to 690 V rated value 44 A • at AC-5b up to 400 V rated value 25 S A • at AC-6a	— at 690 V rated value	21 A
 et AC-5b up to 400 V rated value et AC-5a 	• at AC-4 at 400 V rated value	22 A
• at AC-5b up to 400 V rated value 26.5 A • at AC-5a 30.8 A - up to 230 V for current peak value n=20 rated 30.8 A value 30.8 A - up to 500 V for current peak value n=20 rated 30.8 A - up to 500 V for current peak value n=20 rated 27 A - up to 500 V for current peak value n=20 rated 21 A • at AC-5a 21 A - up to 230 V for current peak value n=30 rated 20.5 A value 20.5 A - up to 500 V for current peak value n=30 rated 20.5 A value 18 A - up to 500 V for current peak value n=30 rated 10 mm² rated value 10 mm² operational current for approx. 20000 operating 12 A operational current for approx. 20000 operating 12 A operational current path at DC-1 12 A - at 240 V rated value 35 A - at 440 V rated value 025 A • with 2 current path in series at DC-1 14 AO - at 440 V rated value 35 A - at 440 V rated value 35 A - at 600 V rated value 35 A - at 600 V rated value 35 A </td <td>• at AC-5a up to 690 V rated value</td> <td>44 A</td>	• at AC-5a up to 690 V rated value	44 A
 at AC-6a 		26.5 A
valuevalue		
value27 A		30.8 A
value21 Aup to 690 V for current peak value n=20 rated value21 A• at AC-6a20.5 Aup to 230 V for current peak value n=30 rated value20.5 Aup to 400 V for current peak value n=30 rated value20.5 Aup to 500 V for current peak value n=30 rated value18 Aup to 690 V for current peak value n=30 rated value18 Aup to 690 V for current peak value n=30 rated value18 Aup to 690 V for current peak value n=30 rated value10 mm²up to 690 V for current peak value n=30 rated value10 mm²up to 690 V for current peak value n=30 rated value12 Aup to 690 V for current peak value n=30 rated value12 Aup to 690 V for current for approx. 200000 operating cycles at AC-412 A- at 400 V rated value12 A- at 240 V rated value35 A- at 240 V rated value35 A- at 240 V rated value0.4 A- at 440 V rated value0.4 A- at 440 V rated value35 A- at 4110 V rated value35 A- at 440 V rated value35 A-		30.8 A
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up to 230 V for current peak value n=30 rated value20.5 Aup to 400 V for current peak value n=30 rated value20.5 Aup to 500 V for current peak value n=30 rated value18 Aup to 690 V for current peak value n=30 rated value18 Aup to 690 V for current peak value n=30 rated value10 mm²up to 690 V for current peak value n=30 rated value12 A	value	21 A
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valueminimum cross-section in main circuit at maximum AC-1 rated value10 mm2operational current for approx. 200000 operating cycles at AC-412 A• at 400 V rated value12 A• at 690 V rated value12 A• at 690 V rated value12 A• at 1 current path at DC-1 at 24 V rated value35 A- at 24 V rated value1 A- at 20 V rated value0.4 A- at 440 V rated value0.25 A- at 600 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 440 V rated value35 A- at 440 V rated value35 A- at 440 V rated value1 A- at 440 V rated value35 A- at 440 V rated value36 A	value	
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• at 690 V rated value 12 A operational 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 - at 24 V rated value 35 A - at 24 V rated value 35 A - at 24 V rated value 0.25 A - at 24 V rated value 5 A - at 24 V rated value 35 A - at 440 V rated value 5 A - at 440 V rated value 1 A - at 440 V rated value 5 A - at 440 V rated value 0.8 A	cycles at AC-4	
operational current• at 1 current path at DC-1- at 24 V rated value- at 24 V rated value- at 110 V rated value- at 220 V rated value- at 220 V rated value- at 440 V rated value- at 440 V rated value- at 600 V rated value- at 24 V rated value- at 26 V rated value- at 26 V rated value- at 440 V rated value- at 440 V rated value- at 440 V rated value- at 600 V rated value		
• at 1 current path at DC-135 A- at 24 V rated value35 A- at 210 V rated value4.5 A- at 220 V rated value1 A- at 440 V rated value0.4 A- at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A- at 20 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 24 V rated value35 A- at 210 V rated value35 A- at 440 V rated value1 A- at 440 V rated value5 A- at 440 V rated value1 A- at 600 V rated value0.8 A		12 A
at 24 V rated value35 A at 210 V rated value4.5 A at 220 V rated value1 A at 440 V rated value0.4 A at 600 V rated value0.25 A•- at 24 V rated value35 A at 24 V rated value35 A at 210 V rated value35 A at 220 V rated value35 A at 220 V rated value5 A at 240 V rated value5 A at 240 V rated value5 A at 240 V rated value5 A at 440 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 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 220 V rated value 1 A - at 240 V rated value 35 A - at 240 V rated value 35 A - at 260 V rated value 5 A - at 260 V rated value 5 A - at 440 V rated value 5 A - at 440 V rated value 1 A - at 600 V rated value 0.8 A	-	
 at 220 V rated value at 440 V rated value at 600 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 440 V rated value 0.8 A 	— at 24 V rated value	
 at 440 V rated value at 600 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 	— at 110 V rated value	
at 600 V rated value0.25 A• with 2 current paths in series at DC-1 at 24 V rated value35 A at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A	— at 220 V rated value	1 A
with 2 current paths in series at DC-1	— at 440 V rated value	0.4 A
at 24 V rated value35 A at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A		0.25 A
at 110 V rated value35 A at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A	 with 2 current paths in series at DC-1 	
at 220 V rated value5 A at 440 V rated value1 A at 600 V rated value0.8 A	— at 24 V rated value	
at 440 V rated value 1 A at 600 V rated value 0.8 A	— at 110 V rated value	35 A
— at 600 V rated value 0.8 A	— at 220 V rated value	5 A
	— at 440 V rated value	1 A
with 3 current paths in series at DC-1	— at 600 V rated value	0.8 A
	 with 3 current paths in series at DC-1 	

- at 24 V rated value 35 Å - at 22 V rated value 35 Å - at 24 V rated value 29 Å - at 60 V rated value 1.4 Å - at 24 V rated value 20 Å - at 24 V rated value 20 Å - at 10 V rated value 20 Å - at 24 V rated value 20 Å - at 24 V rated value 20 Å - at 24 V rated value 0.00 Å - at 24 V rated value 0.16 Å - at 24 V rated value 0.16 Å - at 24 V rated value 0.16 Å - at 24 V rated value 0.6 Å - at 24 V rated value 0.6 Å - at 24 V rated value 0.6 Å - at 23 V rated value 0.6 Å - at 23 V rated value 15 ÅW - at 23 V rated value 15 ÅW - at 23 V rated value 15 ÅW <		
- al 220 V rade value 35 Å - al 600 V rade value 29 Å - al 600 V rade value 20 Å - al 700 V rade value 20 Å - al 200 V rade value 20 Å - al 200 V rade value 20 Å - al 200 V rade value 009 Å - al 200 V rade value 016 Å - al 200 V rade value 15 KW - al 200 V rade value 10 KW - al	— at 24 V rated value	35 A
- alt 40 V radid value 2.9 Å - alt 600 V radid value 1.4 Å - alt 24 V radid value 2.0 Å - alt 24 V radid value 2.0 Å - alt 24 V radid value 2.0 Å - alt 24 V radid value 0.09 Å - alt 24 V radid value 0.09 Å - alt 20 V radid value 0.09 Å - alt 24 V radid value 0.16 Å - alt 24 V radid value 0.6 Å - alt 24 V radid value 0.6 Å - alt 20 V radid value 0.6 Å - alt 20 V radid value 15 KW	— at 110 V rated value	
• at 1 current path at DC-3 at DC-5 > - at 24 V rade Value 25 A - at 24 V rade Value 0.09 A - at 210 V rated Value 0.09 A - at 24 V rade Value 0.09 A - at 220 V rated Value 0.09 A - at 220 V rated Value 0.07 A - at 240 V rated Value 0.16 A - at 240 V rated Value 0.16 A - at 240 V rated Value 0.6 A - at 240 V rated Value 0.6 A - at 250 V rated Value 1.6 A	— at 440 V rated value	
	— at 600 V rated value	1.4 A
- at 10 V rited value2.5 Å- at 200 V rated value0.09 Å- at 600 V rated value0.09 Å- at 600 V rated value35 Å- at 24 V rated value35 Å- at 220 V rated value0.16 Å- at 220 V rated value0.16 Å- at 440 V rated value0.6 Å- at 440 V rated value0.6 Å- at 440 V rated value10 Å- at 440 V rated value10 Å- at 440 V rated value10 Å- at 600 V rated value15 ÅW- at 600 V rated value16 ÅW• at 600 V rated value16 ÅW• at 600 V rated value10 ÅW• at 600 V rated value10 ÅW• at 600 V rated value10 ÅW• at 600 V rated value21 ÅWA• at 600 V rated value21 ÅWA• at 600 V rated value = 30 rated value23 ÅVA• at 600 V rated value = 30 rated value23 ÅVA• at 600 V rated value = 30 rated value<	 at 1 current path at DC-3 at DC-5 	
- at 20 V rated value1 A- at 440 V rated value0.06 A- at 600 V rated value0.06 A• with 2 current paths in series at DC-3 at DC-535 A- at 110 V rated value15 A- at 240 V rated value0.27 A- at 600 V rated value0.27 A- at 600 V rated value0.16 A- at 240 V rated value0.6 A- at 240 V rated value0.6 A- at 240 V rated value10 A- at 250 V rated value15 KW- at 250 V rated value15 KW- at 650 V rated value25 KW- at 650	— at 24 V rated value	20 A
	— at 110 V rated value	2.5 A
	— at 220 V rated value	1 A
 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 35 A at 220 V rated value 36 A at 220 V rated value 37 A at 220 V rated value 37 A at 24 V rated value 36 A at 24 V rated value 37 A at 24 V rated value 36 A at 24 V rated value 37 A at 24 V rated value 36 A at 230 V rated value 36 A at 400 V rated value 36 A at 230 V rated value 36 A at 230 V rated value 36 A at 230 V rated value 37 KW at 400 V rated value 38 KW at 400 V rated value 38 KW at 400 V rated value 38 KW at 400 V rated value 39 KW at 400 V rated value 30 KW at 400 V rated value 31 KVA at 400 V rated value 32 KVA at 400 V rated value 33 KW at 400 V rated value at 800 V fracturent peak value n=20 rated value 33 KVA at 000 V fracturent peak value n=20 rated value 31 KVA at 000 V fracturent peak value n=20 rated value at 800 V fracturent peak value n=20 rated value 32 KVA at 000 V fracturent peak value n=30 rated value 33 KVA at 000 V fracturent peak value n=30 rated value 32 KVA at 000 V fracturen	— at 440 V rated value	0.09 A
	— 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
	— at 110 V rated value	15 A
	— 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 224 V rated value 35 A - at 220 V rated value 06 A - at 220 V rated value 0.6 A - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 200 V rated value 0.7 5 kW - at 300 V rated value 0.1 5 kW - at 300 V rated value 0.1 5 kW - at 400 V rated value 0.1 5 kW - at 600 V rated value 0.1 5 kW - at 600 V rated value 0.2 15 kW - at 600 V rated value 0.2 0 rated value 0.1 8 kW - at 600 V rated value 0.2 0 rated value 0.2 15 kW - at 600 V rated value 0.2 0 rated value 0.2 3 kVA - up to 200 V for current peak value n=20 rated value 2.3 kVA - up to 200 V for current peak value n=20 rated value 2.3 kVA - up to 200 V for current peak value n=30 rated value 2.3 kVA - up to 200 V for current peak value n=30 rated value 2.3 kVA - up to 500 V for current peak value n=30 rated value 2.3 kVA - up to 600 V for current peak value n=30 rated value 2.3 kVA - up to 600 V for current peak value n=30 rated value 2.1 kVA - up to 600 V for current peak value n=30 rated value 2.1 kVA - up to 600 V for current peak value n=30 rated value 2.1 kVA	— 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 110 V rated value	35 A
	— at 220 V rated value	10 A
operating power et AC-3	— at 440 V rated value	0.6 A
• at AC-3 - at 230 V rated value 7.5 kW - at 400 V rated value 15 kW - at 690 V rated value 15 kW - at 690 V rated value 15 kW - at 230 V rated value 15 kW - at 230 V rated value 15 kW - at 400 V rated value 15 kW - at 400 V rated value 15 kW - at 400 V rated value 15 kW - at 500 V rated value 15 kW - at 690 V rated value 18 kW operating power for approx. 200000 operating cycles at AC-4 18 kW • at 400 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 23.3 kVA • up to 500 V for current peak value n=20 rated value 25 kVA operating apparent power at AC-6a 8.1 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 15.5 kVA • up to 500 v for current peak value n=30 rated value 15.5	— at 600 V rated value	0.6 A
	operating power	
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	— at 400 V rated value	15 kW
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• up to 690 V for current peak value n=30 rated value21.5 kVAshort-time withstand current in cold operating state up to 40 °C499 A; Use minimum cross-section acc. to AC-1 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 frequency • at AC1000 1/hoperating frequency • at AC-1 maximum • at AC-2 maximum1 000 1/h	 up to 400 V for current peak value n=30 rated value 	14.2 kVA
short-time withstand current in cold operating state up to 40 °C499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 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 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • at AC-1 maximum • at AC-2 maximum1000 1/h • limited to 10 s • limited to 10 s<	 up to 500 V for current peak value n=30 rated value 	15.5 kVA
up to 40 °C499 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum395 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 maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum182 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 up to 690 V for current peak value n=30 rated value 	21.5 kVA
 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 at AC operating frequency at AC-1 maximum at AC-2 m		
 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 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h operating frequency at AC-1 maximum 1 000 1/h at AC-2 maximum 	 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h operating frequency at AC-1 maximum 1000 1/h at AC-2 maximum 750 1/h 	 limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• at AC5 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 limited to 30 s switching at zero current maximum 	186 A; Use minimum cross-section acc. to AC-1 rated value
• at AC5 000 1/hoperating frequency1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	 limited to 60 s switching at zero current maximum 	152 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h	no-load switching frequency	
• at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h	• at AC	5 000 1/h
• at AC-2 maximum 750 1/h	operating frequency	
	• at AC-1 maximum	1 000 1/h
• at AC-3 maximum 750 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
Control circuit/ Control	250 1/11
	AC
type of voltage of the control supply voltage control supply voltage at AC	AC
at 50 Hz rated value	230 V
	230 V
at 60 Hz rated value operating range factor control supply voltage rated	230 V
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	81 VA
• at 60 Hz	79 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
• at 60 Hz	0.74
apparent holding power of magnet coil at AC	
• at 50 Hz	10.5 VA
• at 60 Hz	8.5 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.25
• at 60 Hz	0.28
closing delay	
• at AC	8 40 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	1
instantaneous contact	
	1
instantaneous contact number of NO contacts for auxiliary contacts	
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value	1 10 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	1 10 A 10 A 3 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	1 10 A 10 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	1 10 A 10 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12	1 10 A 10 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 60 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 40 V rated value • at 40 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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 410 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 125 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10 A 1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10 A 2 A 1 A 10 A 0.15 A 10 A 0.15 A
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 10 A 0 A 2 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 260 V rated value • at 20 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 10 A 0 A 2 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 100 V rated value • at 200 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 6 A 6 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1

at 600 V rated value	27 A		
yielded mechanical performance [hp]			
for single-phase AC motor			
— at 110/120 V rated value	2 hp		
— at 230 V rated value	5 hp		
• for 3-phase AC motor			
— at 200/208 V rated value	10 hp		
— at 220/230 V rated value	10 hp		
— at 460/480 V rated value	20 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 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 circuit at contactor for auxiliary contacts 	spring-loaded terminals Spring-type terminals		
 of magnet coil 	Spring-type terminals		
type of connectable conductor cross-sections			
for main contacts			
— solid	2x (1 10 mm²)		
— solid or stranded	2x (1 10 mm ²)		
— finely stranded with core end processing	2x (1 6 mm ²)		
 finely stranded without core end processing 	2x (1 6 mm ²)		
at AWG cables for main contacts	2x (18 8)		
connectable conductor cross-section for main			
contacts			
• solid	1 10 mm ²		

stranded			1 10 mm ²		
-	with core end processing		1 6 mm ²		
	without core end processing		1 6 mm²		
contacts	ctor cross-section for auxilia	ry			
 solid or strand 			0.5 2.5 mm²		
-	• finely stranded with core end processing		0.5 1.5 mm²		
	finely stranded without core end processing		0.5 2.5 mm²		
	e conductor cross-sections				
 for auxiliary co 			0		
— solid or st			2x (0.5 2.5 mm ²)		
	nded with core end processing	ina	$2x (0.5 \dots 1.5 \text{ mm}^2)$		
	nded without core end processi s for auxiliary contacts	ing	2x (0.5 2.5 mm²) 2x (20 14)		
	ded connectable conductor of	21066	ZX (20 14)		
section		1055			
 for main contain 	cts		18 8		
 for auxiliary co 	ntacts		20 14		
Safety related data					
product function					
•	according to IEC 60947-4-1		Yes		
	demand rate according to SN 3	1920	450 000		
proportion of dange					
 with low dema 	nd rate according to SN 31920		40 %		
 with high dema 	and rate according to SN 31920)	73 %		
failure rate [FIT] with 31920	low demand rate according to	SN	100 FIT		
T1 value for proof tes IEC 61508	st interval or service life accordi	ing to	20 у		
protection class IP 60529	on the front according to IEC	;	IP20		
touch protection or	the front according to IEC 6	0529	finger-safe, for vertical cont	tact from the front	
suitability for use					
 safety-related 	-		Yes		
Certificates/ approva	ls				
General Product A	pproval				
() E		onfirmatic		<u>KC</u>	EAC
EMC	Functional Safety/Safety of Decl Machinery	aration o	of Conformity	Test Certificates	
A	Type Examination Certificate	CE		Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report
RCM		EG-Konf.			
RCM					
Marine / Shipping	B U RE A U VERITAS		Lloyd's Register us	PRS	RINA
Marine / Shipping	EVERITAS	EG-Konf.	Lloyd's Register uis	PRS	RINA

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Confirmation

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=3RT2027-2AL20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2027-2AL20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AL20

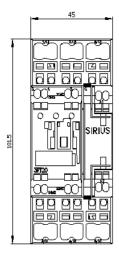
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

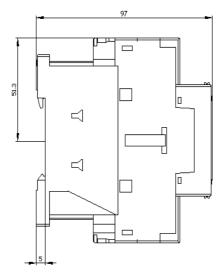
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-2AL20&lang=en

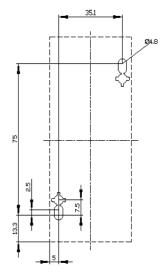
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-2AL20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-2AL20&objecttype=14&gridview=view1







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