SIEMENS

Data sheet

3RT2017-1AP02



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NC, screw terminal, size: S00

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 	1.5 W
 at AC in hot operating state per pole 	0.5 W
 without load current share typical 	1.5 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating 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 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

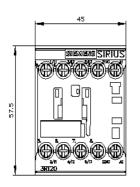
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
● at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-4 at 400 V rated value	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	9.9 A
● at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	7.2 A
 — up to 400 V for current peak value n=20 rated value 	7.2 A
 — up to 500 V for current peak value n=20 rated value 	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	4.8 A
 — up to 400 V for current peak value n=30 rated value 	4.8 A
 — up to 500 V for current peak value n=30 rated value 	4.8 A
 — up to 690 V for current peak value n=30 rated value 	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
• at 1 current path at DC-3 at DC-5	

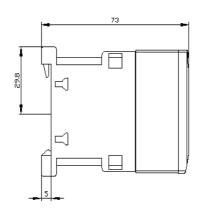
	— at 24 V rated value	20 A
• with 2 current paths in series at DC-3 at DC-5 20 A - at 24 V rates value 20 A - at 10 V rates value 20 A - at 110 V rates value 20 A - at 24 V rates value 20 A - at 240 V rates value 22 A - at 240 V rates value 25 K W - at 240 V rates value 25 K W - at 250 V rates value 25 K W - at 250 V rates value 25 K W - at 250 V rates value 25 K W - at 250 V rates value 25 K W - at 250 V rates value 25 K W - at 400 V rates value 25 K W - at 400 V rates value 25 K W - at 400 V rates value 26 K W - at 400 V rates value 26 K W - at 600 V rates value 2		
- # 29 V ratio value 20 Å - # 10 V ratio value 0.36 Å - # 110 V ratio value 20 Å - # 120 V ratio value 20 Å - # 10 V ratio value 22 Å - # 100 V ratio value 22 Å - # 100 V ratio value 55 kW - # 100 V ratio value 25 kW - # 100 V ratio value 25 kW - # 100 V ratio value 25 kW - # 100 V ratio value 28 kVA - # 100 V ratio value 28 kVA - # 100 V ratio value 18 kVA<	— at 110 V rated value	0.15 A
	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	20 A
• with 3 current paths in series at DC-3 at DC-520 A- at 24 V rated value20 A- at 40 V rated value20 A- at 410 V rated value20 A- at 440 V rated value0.2 A- at 440 V rated value0.2 A- at 400 V rated value0.2 A- at 400 V rated value0.2 A- at 400 V rated value0.2 A- at 600 V rated value5.5 kW- at 600 V rated value5.7 kW- at 600 V rated value6.5 kW- at 600 V rated value6.5 kW- at 600 V rated value6.5 kW- at 600 V rated value7.5 kW- at 600 V rated value7.5 kW </td <td>— at 60 V rated value</td> <td>5 A</td>	— at 60 V rated value	5 A
	— at 110 V rated value	0.35 A
	 with 3 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	20 A
	— at 60 V rated value	20 A
	— at 110 V rated value	20 A
	— at 220 V rated value	1.5 A
operating power it AC-3 It AC-3 It AC-4 It AC-4	— at 440 V rated value	0.2 A
• at 2C-3 - at 230 V rated value 3 kW - at 200 V rated value 55 kW - at 500 V rated value 55 kW - at 230 V rated value 55 kW - at 230 V rated value 55 kW - at 200 V rated value 55 kW - at 500 V rated value 55 kW - at 500 V rated value 55 kW - at 600 V rated value 55 kW operating power for approx. 20000 operating cycles at AC-5 56 kW • up to 500 V for current pack value n=20 rated value 25 kW operating apparent power at AC-68 50 kVA • up to 600 V for current pack value n=20 rated value 33 kVA • up to 500 V for current pack value n=30 rated value 33 kVA • up to 600 V for current pack value n=30 rated value 33 kVA • up to 600 V for curr	— at 600 V rated value	0.2 A
	operating power	
	• at AC-3	
	— at 230 V rated value	3 kW
	— at 400 V rated value	5.5 kW
• at AC-3e 3 kW at 230 V rated value 3 kW at 600 V rated value 5.5 kW at 690 V rated value 5.5 kW at 690 V rated value 5.5 kW operating power for approx. 200000 operating cycles at AC-4 2 kW • at 400 V rated value 2 kW • at 400 V rated value 2 kW • at 400 V rated value 2 kW • at 600 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 4.9 kVA • up to 600 V for current peak value n=20 rated value 8 kVA • up to 600 V for current peak value n=30 rated value 8 kVA • up to 600 V for current peak value n=30 rated value 3.3 kVA • up to 600 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 60 °C 7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value	— at 500 V rated value	5.5 kW
	— at 690 V rated value	5.5 kW
	• at AC-3e	
	— at 230 V rated value	3 kW
	— at 400 V rated value	5.5 kW
operating power for approx. 20000 operating cycles at AC-4 2 • at 400 V rated value 2.5 kW operating apparent power at AC-6a 2.5 kW • up to 230 V for current peak value n=20 rated value 2.8 kVA • up to 230 V for current peak value n=20 rated value 4.9 kVA • up to 560 V for current peak value n=20 rated value 6.2 kVA • up to 560 V for current peak value n=30 rated value 8 kVA operating apparent power at AC-6a 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA Short-line withstand current in cold operating state up to 50° 60° c° • limited to 5 s witching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s witching at zero current maximum 51 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 51 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 10 000 1/h • at AC-4 maximum 10000 1/h • at AC-4 maximum 750 1/h • at AC-4 maxim	— at 500 V rated value	5.5 kW
A the first of the first o	— at 690 V rated value	5.5 kW
• at 400 V rated value 2 kW • at 690 V rated value 2.5 kW operating apparent power at AC-6a 2.8 kVA • up to 530 V for current peak value n=20 rated value 4.8 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 400 V for current peak value n=30 rated value 5.7 kVA short-time withstand current maximum 200 A: Use minimum cross-section acc. to AC-1 rated value • limited to 1 s witching at zero current maximum 64 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s witching at zero current maximum 64 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s witching at zero current maximum 64 A: Use minimum cross-section acc. to AC-1 rated value • at AC-1 maxim		
• at 680 V rated value 2.5 kW operating apparent power at AC-6a 2.8 kVA • up to 230 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a 8 kVA • up to 500 V for current peak value n=30 rated value 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 600 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40° V for current peak value n=30 rated value 5.7 kVA short-time withstand current maximum 200 A: Use minimum cross-section acc. to AC-1 rated value • limited to 1s switching at zero current maximum 20 A: Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 64 V. Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 64 X. Use minimum cross-section acc. to AC-1 rated value • limited to 0 s switching at zero current maximum 61 X. Use minimum cross-section acc. to AC-1 rated value • limited to 0 s switching at zero current max		0.194
operating apparent power at AC-6a 2.8 kVA • up to 230 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 5.2 kVA • up to 650 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a 1.9 kVA • up to 500 V for current peak value n=30 rated value 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40° C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • at AC-1 maximum 100 001/h • at AC-2 maximum 750 1/h		
• up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 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 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 neak mum • limited to 1s switching at zero current maximum • limited to 1s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 3s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 5s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current maximum • limited to 6s switching at zero current ma		2.5 KW
• up to 400 V for current peak value n=20 rated value 4.9 kVA • up to 500 V for current peak value n=20 rated value 6.2 kVA • up to 500 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6 1.9 kVA • up to 500 V for current peak value n=30 rated value 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40°C 6.0 kP or current maximum • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 10 000 1/h • limited to 50 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 10 000 1/h • dorec 10 000 1/h • da AC-1 10 000 1/h • at AC-1 10 000 1/h • at AC-3 maximum 750 1/h <td></td> <td>0.011/4</td>		0.011/4
• up to 500 V for current peak value n=20 rated value • up to 620 V for current peak value n=20 rated value 8 kVA 9 erating apparent power at AC-6 • 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 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=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 • Iimited to 1 s switching at zero current maximum • Iimited to 5 s switching at zero current maximum • Iimited to 60 s switching at zero current maximum • Iimited to 60 s switching at zero current maximum • I a AC • 10 000 1/h • at AC • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum		
• up to 690 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-Ga 1.9 kVA • up to 230 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 590 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C 5.7 kVA • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • at AC- 10 000 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 250 1/h • at AC-4 maximum 250 1/h </td <td></td> <td></td>		
operating apparent power at AC-6a 1.9 kVA • up to 230 V for current peak value n=30 rated value 1.9 kVA • up to 400 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40°C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h		
• up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value 3.3 kVA • up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 500 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C • Ilmited to 1 s switching at zero current maximum • Ilmited to 1 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 60 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 10 s switching at zero current maximum • Ilmited to 20 switch		8 KVA
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• up to 500 V for current peak value n=30 rated value 4.1 kVA • up to 690 V for current peak value n=30 rated value 5.7 kVA short-time withstand current in cold operating state up to 40 °C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h 000 1/h • at AC-1 maximum 1 000 1/h • at AC-3 maximum <t< td=""><td></td><td></td></t<>		
• up to 690 V for current peak value n=30 rated value5.7 kVAshort-time withstand current in cold operating state up to 40 °C200 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum123 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum96 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• at AC10 000 1/hoperating frequency100 00 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximum230 V• at AC value230 V• at AC value230 V• at AC value230 V• at AC value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V• at 60 Hz rated value230 V		
short-time withstand current in cold operating state up to 40 °C 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 61 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control AC type of voltage of the control supply voltage AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value <td< td=""><td></td><td></td></td<>		
40 °C • limited to 1 s switching at zero current maximum 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 123 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 74 A; Use minimum cross-section acc. to AC-1 rated value • at AC 0 000 1/h 70 000 1/h • at AC 10 000 1/h 750 1/h • at AC-3 maximum 750 1/h 750 1/h • at AC-4 maximum 250 1/h 750 1/h • at AC-4 maximum 250 1/h 750 1/h • at AC-4 maximum 230 V 230 V	· · · · ·	5.7 KVA
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• at 50 Hz 0.8 1.1	operating range factor control supply voltage rated value of	
	● at 50 Hz	0.8 1.1

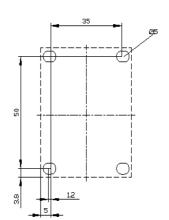
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	5.7 VA
• at 60 Hz	4.4 VA
inductive power factor with the holding 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	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous	1
contact	
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	11 A
• at 600 V rated value	11 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link	

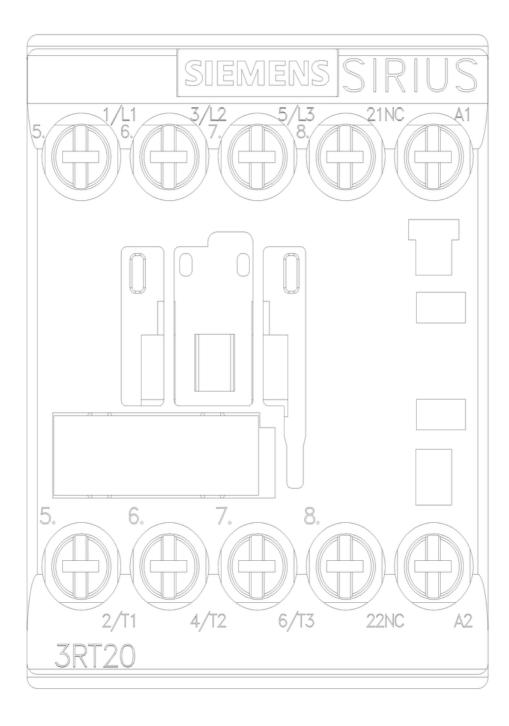
 for short-circuit protection of the main circuit 	
 with type of coordination 1 required 	gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
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	58 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting forwarda	10 mm
— forwards	10 mm 10 mm
— upwards — downwards	10 mm
— at the side	0 mm
for grounded parts	
— forwards	10 mm
— upwards	10 mm
— at the side	6 mm
— downwards	10 mm
for live parts	
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
 for main current circuit 	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
 at contactor for auxiliary contacts 	Screw-type terminals
of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	
• solid	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ²
solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x 4 mm ²
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm ²
 stranded finely stranded with core and processing 	0.5 4 mm ²
finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm²
solid or stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14), 2x 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 according to IEC 60947-4-1 	Yes
suitability for use safety-related switching OFF	Yes
B10 value with high demand rate according to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %

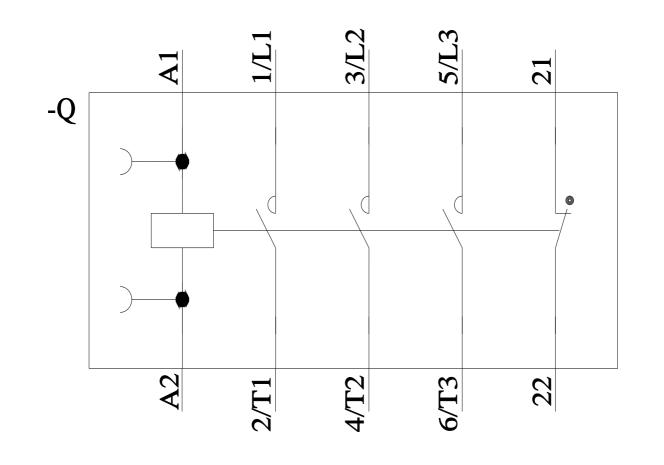
protection class IP on the front according to IEC 6822 IP20 functional protection on the front according to IEC 6822 Impersale. for variation contract from the front interficience approach General Product Approval Impersale. for variation contract from the front interficience approach Impersale. for variation contract from the front interficience approach ENC Functional Software Declaration of Conformity Test Certificates Marine / Shipping Other ECC Software True Test Certificates ENC Confirmation Software Environmental Confirmation Environmental Confirmation ENC Confirmation Vibration and Shock Environmental Confirmation Shock Environmental Confirmation Shock Environmental Confirmation Shock Envinonmental Confirmation Shock Environment	 with high demar 	nd rate according to SN 319	20	73 %		
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