SIEMENS

Data sheet

3RT2016-1AP01-1AA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00, upright mounting position

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	1.1 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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
● at AC	10,5g / 5 ms, 6,6g / 10 ms
mechanical service life (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

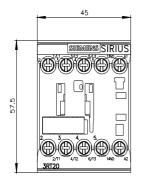
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
 at AC-3e rated value maximum 	690 V
operational current	
• at AC-1 at 400 V at ambient temperature 40 °C rated	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated	20 A
value	
● at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	9 A
— at 500 V rated value	7.7 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	7.4 A
• at AC-6a	5.2.4
— up to 230 V for current peak value n=20 rated value	5.3 A
 — up to 400 V for current peak value n=20 rated value — up to 500 V for current peak value n=20 rated value 	5.3 A 5.3 A
— up to 500 V for current peak value n=20 rated value	5.5 A
• at AC-6a	54
 up to 230 V for current peak value n=30 rated value 	3.5 A
— up to 200 V for current peak value n=30 rated value	3.5 A
— up to 500 V for current peak value n=30 rated value	3.6 A
— up to 690 V for current peak value n=30 rated value	3.3 A
minimum cross-section in main circuit at maximum AC-1 rated	4 mm ²
value	
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 	

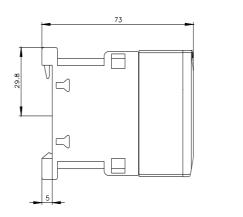
	— at 24 V rated value	20 A
 with 2 current path in sprice at DC-3 at DC-3 at 24 V rates value bA at 10 V rates value DA at 10 V rates value DA at 24 V rates value At 25 V rates value At 20 V rates value<	— at 60 V rated value	0.5 A
	— at 110 V rated value	0.15 A
- at 60 V rater value 9.A - at 102 V rater value 005 A - at 24 V rater value 20.A - at 24 V rater value 20.A - at 102 V rater value 20.A - at 24 V rater value 20.A - at 24 V rater value 20.A - at 240 V rater value 20.A - at 240 V rater value 20.A - at 240 V rater value 22.A - at 240 V rater value 22.A - at 250 V rater value 22.AV - at 250 V rater value 22.WV - at 250 V rater value 4.WV - at 250 V rater value 5.WV - at 250 V rater value 2.WV - at 250 V rater value	 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-5- at 24 V rated value20 A- at 40 V rated value20 A- at 410 V rated value20 A- at 420 V rated value20 A- at 440 V rated value0.2 A- at 440 V rated value2.2 kW- at 400 V rated value4 kW- at 230 V rated value2.2 kW- at 400 V rated value5.5 kW- at 400 V rated value5.5 kW- at 400 V rated value5.5 kW- at 400 V rated value2.2 kW- at 400 V rated value2.2 kW- at 400 V rated value5.5 kW- at 400 V rated value2.2 kW- at 400 V rated value2.5 kW- at 400 V fract value2.5 kW- at 400 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=20 rated value3.6 kVA- up 10 2.50 V for current pack value n=30 rated value4.6 kVA <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 4 kW • at AC2 at 400 V rated value 4 kW • at AC2 at 400 V rated value 4 kW at 230 V rated value 2 kW at 500 V rated value 4 kW at 500 V rated value 4 kW at 500 V rated value 5 kW	— at 440 V rated value	0.2 A
• at AC-2 at 400 V rated value 4 kW • at AC-3 22 kW • at 400 V rated value 4 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V rated value 4 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 2 kW • up to 600 V for current pack value n=20 rated value 3 kVA • up to 600 V for current pack value n=20 rated value 4 kW • up to 600 V for current pack value n=20 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 4 kVA • up to 600 V for current pack value n=30 rated value	— at 600 V rated value	0.2 A
• at AC-2 at 400 V rated value 4 kW • at AC-3 22 kW • at 400 V rated value 4 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 2 kW • at 600 V rated value 2 kW • at 600 V rated value 4 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 5 kW • at 600 V rated value 2 kW • up to 600 V for current pack value n=20 rated value 3 kVA • up to 600 V for current pack value n=20 rated value 4 kW • up to 600 V for current pack value n=20 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 3 kVA • up to 600 V for current pack value n=30 rated value 4 kVA • up to 600 V for current pack value n=30 rated value	operating power	
		4 kW
- at 400 V rated value 4 kW - at 500 V rated value 4 kW - at 230 V rated value 5.5 kW - at 230 V rated value 2 kW - at 500 V rated value 4 kW - at 500 V rated value 4 kW - at 500 V rated value 4 kW - at 600 V rated value 4 kW - at 500 V rated value 5.5 kW operating power for approx. 200000 operating cycles at AC-4 5.5 kW • at 600 V rated value 2.5 kW • up to 230 V for current peak value m20 rated value 3.6 k/A • up to 500 V for current peak value m20 rated value 4.6 k/A • up to 600 V for current peak value m20 rated value 5.9 kVA • up to 600 V for current peak value m20 rated value 2.4 k/A • up to 600 V for current peak value m30 rated value 2.4 k/A • up to 600 V for current peak value m30 rated value 3.1 k/A • up to 600 V for current peak value m30 rated value 4.6 k/A • up to 600 V for current peak value m30 rated value 4.6 k/A • up to 600 V for current peak value m30 rated value 5.9 kVA • up to 600 V for current peak value m30 rated value 6.0 k/A <tr< td=""><td>• at AC-3</td><td></td></tr<>	• at AC-3	
- at 400 V rated value 4 kW - at 500 V rated value 4 kW - at 230 V rated value 5.5 kW - at 230 V rated value 2 kW - at 500 V rated value 4 kW - at 500 V rated value 4 kW - at 500 V rated value 4 kW - at 600 V rated value 4 kW - at 500 V rated value 5.5 kW operating power for approx. 200000 operating cycles at AC-4 5.5 kW • at 600 V rated value 2.5 kW • up to 230 V for current peak value m20 rated value 3.6 k/A • up to 500 V for current peak value m20 rated value 4.6 k/A • up to 600 V for current peak value m20 rated value 5.9 kVA • up to 600 V for current peak value m20 rated value 2.4 k/A • up to 600 V for current peak value m30 rated value 2.4 k/A • up to 600 V for current peak value m30 rated value 3.1 k/A • up to 600 V for current peak value m30 rated value 4.6 k/A • up to 600 V for current peak value m30 rated value 4.6 k/A • up to 600 V for current peak value m30 rated value 5.9 kVA • up to 600 V for current peak value m30 rated value 6.0 k/A <tr< td=""><td>— at 230 V rated value</td><td>2.2 kW</td></tr<>	— at 230 V rated value	2.2 kW
• at AC-3e 22 kW at 230 V rated value 2 kW at 500 V rated value 4 kW at 500 V rated value 5 kW - at 400 V rated value 5 kW - at 400 V rated value 2 kW - at 400 V for current peak value n=20 rated value 2 kVA - up to 520 V for current peak value n=20 rated value 3 kVA - up to 500 V for current peak value n=20 rated value 3 kVA - up to 500 V for current peak value n=20 rated value 3 kVA - up to 500 V for current peak value n=30 rated value 3 kVA - up to 500 V for current peak value n=30 rated value 3 kVA - up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 500 V for current peak value n=30 rated value 4 kVA • up to 600 V for current peak value n=30 rated value 4 kVA • lininted		
		2.2 kW
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW • at 680 V rated value 2 kW • at 630 V rated value 2 kW • up to 230 V for current peak value n=20 rated value 2 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 2.4 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 3.1 kVA • up to 500 V for current peak value n=30 rated value 4.4 kVA short-time withstand current in cold operating state up to 40°C 15 A: Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 111 A: Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A: Use minimum cross-section acc. to AC-1 rated value • eit AC-1 10 000 1/h • eit AC-2 10 000 1/h		
A to V rated value at 400 V rated value at 690 V rated value at 690 V rated value 2 kW 25 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 2 kVA vup to 400 V for current peak value n=20 rated value 40 kVA vup to 500 V for current peak value n=20 rated value 40 kVA vup to 500 V for current peak value n=20 rated value 59 kVA operating apparent power at AC-6a vup to 230 V for current peak value n=20 rated value 59 kVA operating apparent power at AC-6a vup to 500 V for current peak value n=30 rated value 1.3 kVA vup to 500 V for current peak value n=30 rated value 40 vC vup to 500 V for current peak value n=30 rated value 4. kVA short-line withstand current in cold operating state up to 40 vC vup to 500 v for current peak value n=30 rated value ilmited to 1s switching at zero current maximum ilmited to 1s switching at zero current maximum ilmited to 1s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 s switching at zero current maximum ilmited to 50 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		0.0 KW
• at 690 V rated value 2.5 kW operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 500 V for current peak value n=30 rated value 2.4 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 kVA short-time withstand current in cold operating state up to 40 °C 60 °C • limitled to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limitled to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limitled to 30 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value operating frequency 10000		
operating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 3.6 kVA • up to 500 V for current peak value n=20 rated value 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 200 V for current peak value n=30 rated value 2.4 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. kVA • up to 500 V for current peak value n=30 rated value 4. 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. kVA • up to 500 V for current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 50 t/n • et A	• at 400 V rated value	2 kW
• up to 230 V for current peak value n=20 rated value • up to 400 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current neak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current neak value n=30 rated value • up to 690 V for current peak value n=30 rated value • to 40 °C • limited to 1 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • ta AC • ota ACC • at AC • at AC-3 maximum • at AC-4 maximum	• at 690 V rated value	2.5 kW
• 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=20 rated value • up to 230 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 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 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current peak value n=30 rated value • Up to 600 V for current in cold operating for up corrent maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • Ifol 60 V for current peak value • at AC • at AC	operating apparent power at AC-6a	
• up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current neak value n=30 rated value • up to 690 V for current neak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 70 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum • Limited to 60 s switching at zero current maximum •	 up to 230 V for current peak value n=20 rated value 	2 kVA
• up to 690 V for current peak value n=20 rated value 5.9 kVA operating apparent power at AC-6a 1.3 kVA • up to 230 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 2.4 kVA • up to 690 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 115 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 5 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 5 A; Use minimum cross-section acc. to AC-1 rated value • at AC 10 000 1/h 1000 1/h • at AC-3 maximum 750 1/h 1000 1/h • at AC-3 maximum 750 1/h 250 1/h • at AC-3 maximu	 up to 400 V for current peak value n=20 rated value 	3.6 kVA
operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value 1.3 kVA • up to 400 V for current peak value n=30 rated value 2.4 kVA • up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 600 V for current peak value n=30 rated value 4.4 kVA • up to 600 V for current peak value n=30 rated value 4.4 kVA • up to 600 V for current peak value n=30 rated value 4.4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 10 000 1/h • eat AC 10 000 1/h • eat 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 Control circuit/ Control 230 V	 up to 500 V for current peak value n=20 rated value 	4.6 kVA
operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 680 V for current peak value n=30 rated value tVA up to 680 V for current peak value n=30 rated value tVA up to 680 V for current peak value n=30 rated value tVA tkVA short-time withstand current in cold operating state up to 40°C ilmited to 1 s switching at zero current maximum tS5 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 10 s switching at zero current maximum timited to 10 s switching at zero current maximum timited to 10 s switching at zero current maximum timited to 30 s switching at zero current maximum timited to 60 s switching at zero current maximum tacc 	• up to 690 V for current peak value n=20 rated value	5.9 kVA
• up to 400 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value ilimited to 10 s switching at zero current maximum filmited to 10 s switching at zero current maximum filmited to 10 s switching at zero current maximum filmited to 30 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum filmited to 60 s switching at zero current maximum for 40 °C • at AC 10 000 1/h operating frequency • at AC-2 maximum 1000 1/h • at AC-3 maximum 1000 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum zero turrent • at AC-4 maximum zero turrent * at AC-4 maximum zero * at AC-4 maximum * at AC-4 maximum zero * at AC-4 maximum zero * at AC-4 maximum zero * at AC-4 maximum * zero *		
• up to 400 V for current peak value n=30 rated value 2.4 kVA up to 500 V for current peak value n=30 rated value 3.1 kVA up to 600 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 1 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C ilimited to 60 s switching at zero current maximum for 40 °C interference iat AC 10 000 1/h operating frequency iat AC-2 maximum for 40 °C iat AC-3 maximum for 40 °C int AC-4 maximum zon 1/h iat AC-3e maximum zon 1/h iat AC-3e maximum zon 1/h iat AC-4 maxi		1.3 kVA
• up to 500 V for current peak value n=30 rated value 3.1 kVA • up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C 4 kVA • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching frequency 00 000 1/h • at AC 10 000 1/h • at AC-1 maximum 1000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control Control supply voltage Vpe of voltage of the control supply voltage AC • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value 230 V		2.4 kVA
• up to 690 V for current peak value n=30 rated value 4 kVA short-time withstand current in cold operating state up to 40 °C 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 56 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-3 maximum 250 1/h Control supply voltage at AC AC • at 50 Hz rated value 230 V • at 60 Hz rated value 230 V • at 60 Hz rated value		
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• limited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h • at AC 10 000 1/h operating frequency 1 000 1/h • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-4 maximum 250 1/h Control circuit/ Control 250 1/h 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 230 V	-	66 A; Use minimum cross-section acc. to AC-1 rated value
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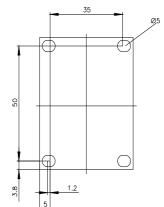
• at 50 Hz	0.8 1.1
• at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	27 VA
• at 60 Hz	24.3 VA
inductive power factor with closing power of the coil	
● at 50 Hz	0.8
• at 60 Hz	0.75
apparent holding power of magnet coil at AC	
• at 50 Hz	4.2 VA
• at 60 Hz	3.3 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
• at 60 Hz	0.25
closing delay	
• at AC	9 35 ms
opening delay	
• at AC	4 15 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous	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 21 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1A
• 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)
JL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	764
at 480 V rated value	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
for single-phase AC motor	0.00 hr
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
• for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	E hn
	5 hp
— at 575/600 V rated value	7.5 hp
— at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection	

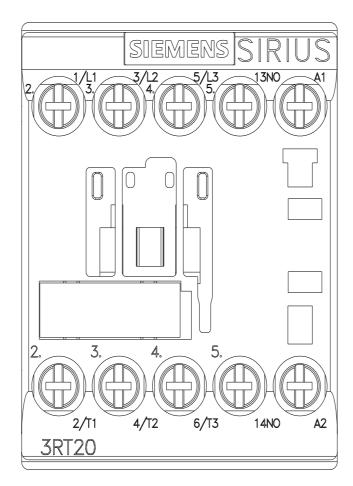
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	gg. 10 A (300 V, 1 M)
	standing on horizontal mounting surface
mounting position	standing, on horizontal mounting surface
fastening method side-by-side mounting 	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes
	58 mm
_ height width	45 mm
depth	73 mm
required spacing	70 mm
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	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 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
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 mm²), 2x (0.75 2.5 mm²)
connectable conductor cross-section for main contacts	
• solid	0.5 4 mm²
stranded	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
connectable conductor cross-section for auxiliary contacts	
 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 mm²), 2x (0.75 2.5 mm²)
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; with 3RH29
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 %
•	

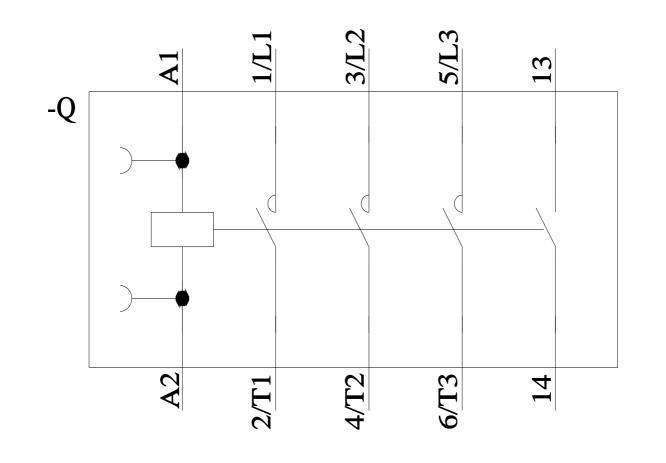
auuro rato (FIT) with h		920 73 %			
	ow demand rate according t		-11		
11 value for proof test 61508	t interval or service life acco	rding to IEC 20 a			
protection class IP o	on the front according to I	EC 60529 IP20			
•	the front according to IEC	60529 finge	r-safe, for vertical contac	t from the front	
ertificates/ approvals	5				
General Product Ap	proval				
SF.		<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	rmity	Test Certificates	
RCM	<u>Type Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certif</u> <u>ate</u>
Marine / Shipping					
ABS	B D REAU VERITAS		Lloyds Register urs	PRS	RINA
Marine / Shipping	other			Railway	Environment
	<u>Confirmation</u>		<u>Confirmation</u>	Vibration and Shock	Environmental Co firmations
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