SIEMENS

Data sheet

3RT2017-2BB42-0CC0



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00, communication-capable

and Az-	
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 	Yes
 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 	4 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
 of main circuit rated value 	6 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	7.3g / 5 ms, 4.7g / 10 ms
shock resistance with sine pulse	
• at DC	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
SVHC substance name	Blei - 7439-92-1
mbient 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 %
lain circuit	

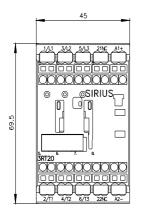
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	22 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	22 A
— up to 690 V at ambient temperature 60 °C rated value	20 A
• 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	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 20 A
— at 50 V rated value	20 A 20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A

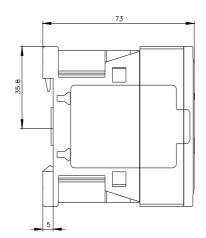
	and a surroute with at DC 2 at DC 5				
	• at 1 current path at DC-3 at DC-5	20.4			
• with 2 current paths in series at DC-3 at DC-5>- at 24 Vinder valueD3A- at 110 Vinder valueD3A- at 110 Vinder valueD3A- at 24 Vinder valueDA- at 240 Vinder valueDA- at 240 Vinder valueDA- at 240 Vinder valueDA- at 240 Vinder valueSA With- at 230 Vinder valueSA With <tr< td=""><td></td><td colspan="4"></td></tr<>					
		0.15 A			
	-				
• with 3 current paths in series at DC-3 at DC-59- at 24 V raide value20 A- at 10 V raide value20 A- at 10 V raide value20 A- at 240 V raide value0.2 A- at 240 V raide value5.5 kW- at 200 V raide value2.8 kW- at 800 V fraide value2.8 kW- at 800 V fraide value3.8 kW- pi to 200 V for current pack value m20 raide value8.2 kW- pi to 500 V for current pack value m20 raide value3.8 kW- pi to 500 V for current pack value m20 raide value1.8 kW- pi to 500 V for current pack value m20 raide value3.8 kW- pi to 500 V for current pack value m20 raide value1.8 kW- pi to 500 V for current pack value m20 raide value1.8 kW- pi to 500 V for current pack value m20 raide value1.8 kW <tr< td=""><td></td><td colspan="4">5 A</td></tr<>		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			
- al 400 V rated value operating power • al AC-3 - al 230 V rated value • al 400 V rated value • al 400 V rated value • al 600 V for current pack value n=20 rated value • al 600 V for current pack value n=20 rated value • al 600 V for current pack value n=20 rated value • al 600 V for current pack value n=20 rated value • al 600 V for current pack value n=20 rated value • al 600 V for current pack value n=20 rated value • al 600 V for current pack value n=20 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V for current pack value n=30 rated value • al 600 V	— at 110 V rated value	20 A			
	— at 220 V rated value	1.5 A			
operating power at AC-3 at AC-3 at AC-3 bt AC-3 ct AC-3 bt AC-3 ct AC-4 <lict ac-4<="" li=""></lict>	— at 440 V rated value	0.2 A			
	— 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 400 V rated value 5.5 kW - at 600 V rated value 2.5 kW - at 600 V for current peak value n=20 rated value 2.8 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 8.8 kVA operating apparent power at AC-6a 1.9 kVA - up to 500 V for current peak value n=30 rated value 3.8 kVA - up to 500 V for current peak value n=30 rated value 3.8 kVA - up to 500 V for current peak value n=30 rated value 3.8 kVA - up to 500 V for current maximum 120 A: Use minimum cross-section acc. to AC-1 rated value - linited to 1 5 switching at zero current maximum 120 A: Use minimum cross-section acc. to AC-1 rated value - linited to 1 5 switching at zero current maximum 1000 1/h - at AC-1 maximum 1000 1/h - at AC-1 maximum 1000 1/h - at AC-2 maxi	— 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. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW • at 680 V rated value 2.5 kW operating apparent power at AC-6a 2.8 kVA • up to 520 V for current peak value n=20 rated value 2.8 kVA • up to 500 V for current peak value n=20 rated value 5.2 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 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 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 5.7 kVA short-time withstand current in cold operating state up to 400 VC 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 3 s switching at zero current maximum 1A; Use minimum cross-section acc. to AC-1 rated value • limited to 3 s switching at zero current maximum 1A; Use minimum cross-section acc. t	— at 500 V rated value	5.5 kW			
A to Wrated value at 400 V rated value at 630 V rated value at 630 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 2.8 kVA up to 500 V for current peak value n=20 rated value 4.8 kVA up to 500 V for current peak value n=20 rated value 4.8 kVA 0perating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 4.8 kVA 0perating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 4.1 kVA vup to 500 V for current peak value n=30 rated value 4.1 kVA vup to 500 V for current peak value n=30 rated value 4.1 kVA vup to 500 V for current peak value n=30 rated value 4.1 kVA vup to 500 V for current peak value n=30 rated value 4.1 kVA vup to 500 V for current peak value n=30 rated value 4.1 kVA short-fime withstand current in cold operating state up to 40 °C 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 10 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 10 s switching at ze	— at 690 V rated value	5.5 kW			
• at 400 V rated value 2 kW • at 680 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 500 V for current peak value n=20 rated value 8.2 kVA • up to 500 V for current peak value n=20 rated value 8.2 kVA • up to 500 V for current peak value n=20 rated value 8.2 kVA • up to 500 V for current peak value n=30 rated value 3.2 kVA • up to 500 V for current peak value n=30 rated value 3.3 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 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 6A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 10 400 Vfn • limited to 5 s switching at zero current maximum 6A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 10 000 1/h • at AC-1 maximum					
• 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 8 kVA operating apparent power at AC-6a 1.9 kVA • up to 500 V for current peak value n=30 rated value 3.8 kVA • up to 500 V for current peak value n=30 rated value 3.8 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 200 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 10 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 124 A; Use minimum cross-section acc. to AC-1 rated value • at DC 10 000 1/h • at DC					
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• 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • 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 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 • linited to 10 s switching at zero current maximum • loc • 10 000 1/h • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 ma		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 690 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 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • Up to 690 V for current peak value n=30 rated value • T V A • up to 690 V for current peak value n=30 rated value • Up to 690 V for current in cold operating state up to 40 °C • Ilmited to 1 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 60 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 60 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 60 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 6					
• up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • kVA • up to 690 V for current peak value n=30 rated value • up to 200 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current nocld operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum •					
• up to 690 V for current peak value n=20 rated value 8 kVA operating apparent power at AC-6a 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 3.1 kVA • up to 690 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 200 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 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 14 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 10 00 1/h • at DC 10 000 1/h operating frequency 10 000 1/h • at AC-1 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h • at AC-3 maximum 250 1/h • at AC-4 maximum 250 1/h • at AC-3 maximum 24					
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 690 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 5.7 kVA short-time withstand 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 10 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 DC 10 000 1/h operating frequency 10 000 1/h • at AC-3 maximum 1 000 1/h • at AC-3 maximum 250 1/h Control circuit/ Control Up type of voltage of the control supply voltage <td></td> <td></td>					
• 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 • limited to 1 s switching at zero current maximum 120 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 16 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 174 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 16 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 174 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 174 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 1750 1/h • at AC-1 maximum 1000 1/h • at AC-3 maximum 1000 1/h • at AC-3 maximum 250 1/h • at AC-3 maximum 250 1/h • at AC-3 maximum 250 1/h • at AC-4 maximum 250 1/h • control supply voltage DC control supply voltage at DC • rated value 24 V • operating range factor control supply voltage rated value of magnet coil at DC		8 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 - • limited to 1 s switching at zero current maximum 200 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 10 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 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 DC 10 000 1/h operating frequency 10000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 250 1/h • at AC-3 maximum 250 1/h • control circuit/ Control E type of voltage of the control supply voltage DC • rated value 24 V					
• up to 500 V for current peak value n=30 rated value4.1 kVA• 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 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 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• limited to 60 s switching frequency • at AC-1 maximum10000 1/h• at AC-2 maximum10000 1/h• at AC-3 maximum1000 1/h• at AC-3 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• control circuit/ ControlControl circuit/ Controltype of voltage of the control supply voltageDC• crated value24 V• operating range factor control supply voltage rated value of magnet coll at DC24 V					
• 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 maximum200 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• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• at DC10 000 1/h• at AC-1 maximum1000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3 maximum250 1/h• at AC-4 maximum250 1/h• control supply voltage at DCDC• rated value24 V• operating range factor control supply voltage rated value of magnet coil at DC24 V					
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• limited to 5 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 maximum74 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• 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• limited to 60 s switching at zero current maximum61 A; Use minimum cross-section acc. to AC-1 rated value• at DC10 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-4 maximum250 1/h• control supply voltageDC• control circuit/ ControlE• type of voltage of the control supply voltageDC• rated value24 V• operating range factor control supply voltage rated value of magnet coil at DCImage: Section control supply voltage rated value of magnet coil at DC		200 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 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 DC 10 000 1/h operating frequency 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 Control circuit/ Control UC type of voltage of the control supply voltage DC • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC 24 V	C C				
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no-load switching frequency 10 000 1/h operating frequency - • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 250 1/h • at AC-4 maximum 250 1/h Control circuit/ Control U type of voltage of the control supply voltage DC control supply voltage at DC - • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC -	-				
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• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC24 V• rated value24 V					
• at AC-4 maximum 250 1/h Control circuit/ Control DC type of voltage of the control supply voltage DC control supply voltage at DC 24 V operating range factor control supply voltage rated value of magnet coil at DC 24 V					
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magnet coil at DC		2 T V			
	-	0.8			

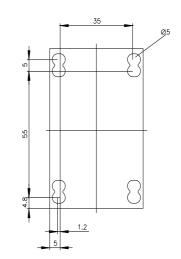
	1 1			
• full-scale value	1.1			
closing power of magnet coil at DC	4 W			
holding power of magnet coil at DC	4 W			
closing delay	30 100 ms			
• at DC	30 100 ms			
opening delay	7 40			
• at DC	7 13 ms			
arcing time	10 15 ms			
control version of the switch operating mechanism	Standard A1 - A2, optionally via function module			
Auxiliary circuit				
number of NC contacts for auxiliary contacts instantaneous contact	1			
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	1A			
operational current at DC-12				
• at 24 V rated value	10 A			
at 48 V rated value	6 A			
at 40 V rated value at 60 V rated value	6A			
at 60 V rated value at 110 V rated value				
	3 A 2 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	70 mm			

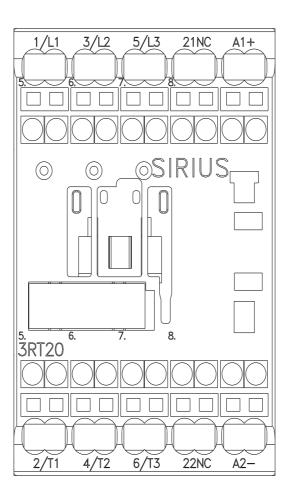
width	45 mm			
depth	73 mm			
required spacing				
with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
• for grounded parts				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
 for live parts 				
— forwards	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 	spring-loaded terminals			
 at contactor for auxiliary contacts 	Spring-type terminals			
of magnet coil	Spring-type terminals			
type of connectable conductor cross-sections for main contacts				
• solid	2x (0.5 4 mm ²)			
solid or stranded	$2x (0,5 \dots 4 \text{ mm}^2)$			
finely stranded with core end processing	2x (0.5 2.5 mm ²)			
finely stranded without core end processing	2x (0.5 2.5 mm²)			
connectable conductor cross-section for main contacts	0.5 4 mm²			
 solid stranded 	0.5 4 mm² 0.5 4 mm²			
 finely stranded with core end processing 	0.5 4 mm 0.5 2.5 mm ²			
 finely stranded with core end processing finely stranded without core end processing 	0.5 2.5 mm ²			
connectable conductor cross-section for auxiliary contacts	0.0 2.0 mm			
solid or stranded	0.5 4 mm²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
 finely stranded without core end processing 	0.5 2.5 mm ²			
type of connectable conductor cross-sections				
for auxiliary contacts				
— solid or stranded	2x (0,5 4 mm²)			
 finely stranded with core end processing 	2x (0.5 2.5 mm²)			
 finely stranded without core end processing 	2x (0.5 2.5 mm ²)			
 for AWG cables for auxiliary contacts 	2x (20 12)			
AWG number as coded connectable conductor cross section				
 for main contacts 	20 12			
 for auxiliary contacts 	20 12			
Safety related data				
product function				
mirror contact 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 %			
with high demand rate according to SN 31920	73 %			
failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508	100 FIT 20 a			
protection class IP on the front according to IEC 60529	IP20			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front			

General Product Approv	val				
		<u>Confirmation</u>		KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Confor	mity	Test Certificates	
	<u>Fype Examination Cer-</u> <u>tificate</u>	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Certific- ate
Marine / Shipping					
ABS	BUREAU VERITAS		Lloyd's Kegister uis	PRS	RINA
Marine / Shipping	other		Railway	Dangerous Good	Environment
RMRS	<u>Confirmation</u>		<u>Vibration and Shock</u>	Transport Information	Environmental Con- firmations
Further information					
Siemens has decided to	exit the Russian marke	et (see here).			
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,)					
https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2BB42-0CC0					
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2BB42-0CC0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2BB42-0CC0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2BB42-0CC0⟨=en					
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2BB42-0CC0/char					
Further characteristics (http://www.automation.sie				&objecttype=14&gridview=	<u>view1</u>

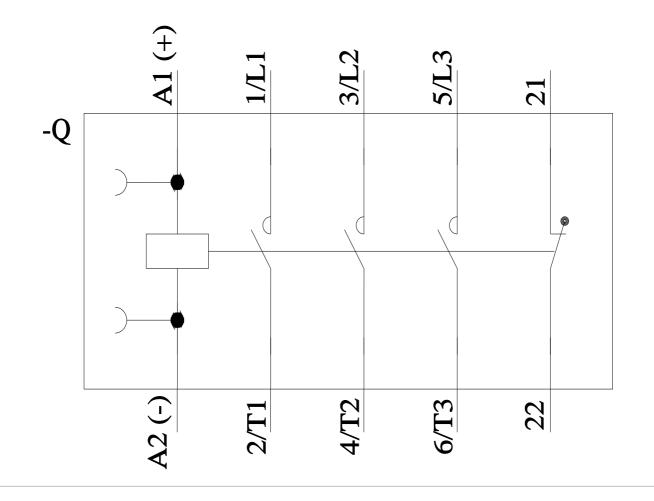








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