SIEMENS

Data sheet

3RT2016-1BB41-1AA0



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 24 V DC, 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 	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	6,7g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at DC	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	F 2 A
— 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	58
 up to 230 V for current peak value n=30 rated value 	3.5 A
— up to 400 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 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 with 3 current paths in series at DC-1 	0.7 A
 with 3 current paths in series at DC-1 — at 24 V rated value 	20 A
— at 24 v rated value — at 60 V rated value	20 A 20 A
— at 10 V rated value	20 A 20 A
— at 220 V rated value	20 A 20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1.3 7
• at 1 current path at DC-3 at DC-5	
- at i ouriont patriat Do-0 at DO-0	

	— at 24 V rated value	20 A		
• • # 2 urent path is tacke at DC-3 at DC-5 2A • • # 24 V rater value 2A • • # 110 V rater value 2A • • # 120 V rater value 4W • • # 120 V rater value 4W • • # 120 V rater value 4W • • # 120 V rater value 2V W • • # 120 V rater value 2V W • • # 120 V rater value 2V W • • # 120 V rater value 2V W • • # 120 V rater value 2W	— at 60 V rated value	0.5 A		
- # 24 V rate value 20 A - # 110 V rated value 5.36 A - # 110 V rated value 20 A - # 12 V rated value 4 WV - # 12 V rated value 4 WV - # 12 V rated value 5 KW - # 12 V rated value 4 WV - # 12 V rated value 2 KW - # 12 V rated value 2 KW - # 12 W rated v	— 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-5- at 24 V rated value20 A- at 10 V rated value20 A- at 110 V rated value20 A- at 240 V rated value20 A- at 240 V rated value0.2 A- at 240 V rated value4 MW- at 240 V rated value4 MW- at 240 V rated value4 MW- at 240 V rated value5 MW- at 240 V rated value2 MW- at 240 V free current pask value n=20 rated value2 MW- at 250 V free	— at 60 V rated value	5 A		
- af 24 V rafed value - af 60 V raf	— 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 230 V rated value 2 kW	— at 440 V rated value	0.2 A		
• at AC-2 at 400 V rated value 4 kW • at AC-3 - at 530 V rated value - at 600 V rated value 4 kW - at 690 V rated value 5 kW • at AC-3 - at 690 V rated value - at 690 V rated value 5 kW • at 400 V rated value 2 kW - at 690 V rated value 5 kW - at 690 V rated value 4 kW - at 690 V rated value 4 kW - at 690 V rated value 5 kW - at 690 V rated value 5 kW - at 690 V rated value 5 kW - at 690 V rated value 2 kW - at 690 V fracturent pack value n=20 rated value 3 kVA - up to 400 V for current pack value n=20 rated value 5 kVA - up to 590 V for current pack value n=30 rated value 4 sW - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 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 - at 530 V rated value - at 600 V rated value 4 kW - at 690 V rated value 5 kW • at AC-3 - at 690 V rated value - at 690 V rated value 5 kW • at 400 V rated value 2 kW - at 690 V rated value 5 kW - at 690 V rated value 4 kW - at 690 V rated value 4 kW - at 690 V rated value 5 kW - at 690 V rated value 5 kW - at 690 V rated value 5 kW - at 690 V rated value 2 kW - at 690 V fracturent pack value n=20 rated value 3 kVA - up to 400 V for current pack value n=20 rated value 5 kVA - up to 590 V for current pack value n=30 rated value 4 sW - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 V for current pack value n=30 rated value 3 kVA - up to 500 V for current pack value n=30 rated value	operating power			
ett AC-3 ett AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4 AC-4		4 kW		
	• at AC-3			
		2.2 kW		
• at AC-3e - at 230 V rated value 2.2 kW at 230 V rated value 4 kW at 500 V rated value 4 kW at 600 V rated value 5 kW operating power for approx. 20000 operating cycles at AC- 4 2 kW - at 400 V rated value 2 kW - at 400 V fraced value 2 kW - up to 230 V for current pack value n=20 rated value 3 kVA - up to 530 V for current pack value n=20 rated value 3 kVA - up to 500 V for current pack value n=20 rated value 4 kWA - up to 500 V for current pack value n=30 rated value 1.3 kVA - up to 500 V for current pack value n=30 rated value 3.1 kVA - up to 500 V for current pack value n=30 rated value 3.1 kVA - up to 500 V for current pack value n=30 rated value 4.1 kVA • up to 500 V for current pack value n=30 rated value 4.1 kVA • up to 500 V for current pack value n=30 rated value 1.3 kVA - up to 500 V for current pack value n=30 rated value 1.4 kVA				
		2.2 kW		
operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 2 kW • at 690 V rated value 2.5 kW opprating apparent power at AC-6a 2 kVA • up to 230 V for current peak value n=20 rated value 2.6 kW • 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 1.3 kVA • up to 500 V for current peak value n=30 rated value 1.3 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 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 400 V 1.4 kVA • up to 5 switching at zero current maximum 115 S.4 Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 3 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 3 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1				
A to be the set of the set o		5 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 4.6 kVA • up to 500 V for current peak value n=20 rated value 5.8 kVA • up to 500 V for current peak value n=20 rated value 5.8 kVA • up to 500 V for current peak value n=30 rated value 5.8 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 2.4 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 6 kVB • 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 6 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 S switching at zero current maximum 10 000 1/h • at DC 10 000 1/h • at AC-3 maximum 1000 1/h • at AC-1 maximum 1000 1/h • at AC-3 maximum 750 1/h • at AC-				
operating apparent power at AC-6a 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 4.6 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 up to 200 V for current peak value n=30 rated value 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 4.4 kVA up to 500 V for current peak value n=30 rated value 4.4 kVA up to 500 V for current peak value n=30 rated value 4.4 kVA initice to 1 s witching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value 11 A; Use minimum cross-section acc. to AC-1 rated value initied to 1 s witching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value initied to 10 s witching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value initied to 10 s witching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value initied to 10 s witching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value initied to 10 s witching at zero current maximum 100 1/h at AC-2 maximum 1000 1/h	• at 400 V rated value	2 kW		
• up to 230 V for current peak value n=20 rated value 2 kVA 3.6 kVA up to 400 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 5.8 kVA operating apparent power at AC-6a up to 500 V for current peak value n=30 rated value 4.6 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 3.1 kVA up to 500 V for current peak value n=30 rated value 4.6 kVA up to 500 V for current peak value n=30 rated value 4.6 kVA up to 500 V for current peak value n=30 rated value 4.6 kVA up to 500 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value 4.6 kVA up to 690 V for current peak value n=30 rated value imited to 1 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value imited to 10 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value imited to 60 s switching at zero current maximum for 10 000 1/h operating frequency at DC 10 000 1/h ot AC-3 maximum 1000 1/h ot AC-3 maximum 1000 1/h at AC-3 maximum f50 1/h at AC-3 maximum f50 1/h at AC-3 maximum f50 1/h control dircuit/ Control type of voltage of the control supply voltage DC control supply voltage at DC iated valu	• at 690 V rated value	2.5 kW		
• up to 400 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 690 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. kVA short-time withstand current in cold operating state up to 0 0°C • 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 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 • at DC 10 000 1/h • at AC-1 maximum 1 000 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 maximu	operating apparent power at AC-6a			
 up to 500 V for current peak value n=20 rated value 4.6 kVA up to 690 V for current peak value n=20 rated value 5.9 kVA Operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 1.3 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 4.6 kVA Short-time withstand current in cold operating state up to 40°C ilmited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 10 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value 66 A; Use minimum cross-section acc. to AC-1 rated value 67 use minimum cross-section acc. to AC-1 rated value 67 use antimum cross-section acc. to AC-1 rated value 1000 1/h operating frequency at AC-1 maximum 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 260 1/h 27 Un 28 V 0perating range factor control supply voltage rated value 24 V 0perating range factor control supply voltage rated value of magnet coil at DC 	 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 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 4 kVA short-time withstand current maximum 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 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 10 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at DC 10 000 1/h operating frequency • at QC-1 maximum • at QC-3 maximum 1000 1/h • at AC-4 maximum 250 1/h • at AC-3 m	 up to 400 V for current peak value n=20 rated value 	3.6 kVA		
• up to 680 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 680 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 680 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 short-time withstand 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 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value • at DC 10 000 1/h operating frequency • • at AC-1 maximum 1000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 250 1/h	• up to 500 V for current peak value n=20 rated value	4.6 kVA		
• 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 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 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 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 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-1 maximum 10000 1/h • at AC-2 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		5.9 kVA		
• 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 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 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 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 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-1 maximum 10000 1/h • at AC-2 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	· · ·			
• 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 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 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 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 66 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 10 000 1/h operating frequency 10 000 1/h • at DC 10 000 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 750 1/h • at AC-3 maximum 250 1/h Control circuit/ Control V type of voltage of the control supply voltage		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 limited to 1 s switching at zero current maximum limited to 1 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum 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 67 A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching at zero current maximum 10 000 1/h operating frequency at AC-2 maximum at AC-3 maximum to 000 1/h at AC-3 maximum to 000 1/h at AC-4 maximum to 000 1/h at AC-3 maximum to 000 1/h at AC-4 maximum to 000 1/h ta AC-3 maximum to 000 1/h ta AC-4 maximum ta AC-4		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 115 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 DC 10 000 1/h operating frequency 10 000 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 DC control supply voltage at DC 0 • rated value		3.1 kVA		
short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 1 s switching at zero current maximum 111 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 10 s switching at zero current maximum 86 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 30 s switching at zero current maximum 66 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 55 A; Use minimum cross-section acc. to AC-1 rated value ilmited to 60 s switching at zero current maximum 56 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h operating frequency 10 000 1/h e at AC-1 maximum 1 000 1/h e at AC-2 maximum 750 1/h e at AC-3 maximum 250 1/h control circuit/ Control 250 1/h 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		4 kVA		
40 °C • limited to 1 s switching at zero current maximum 155 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 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 86 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 55 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 • at DC 10 000 1/h operating frequency • at AC-1 maximum • at AC-1 maximum 1 000 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 250 1/h Control circuit/ Control U 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	· · ·			
• limited to 5 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 55 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 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 DC 10 000 1/h • at DC 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 supply voltage DC control supply voltage at DC 24 V • rated value 24 V • operating range factor control supply voltage rated value of magnet coil at DC				
• 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 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 0 • at DC 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-4 maximum 250 1/h • at AC-4 maximum 24 V • operating range factor control supply voltage rated value of magnet coil at DC 24 V	 limited to 1 s switching at zero current maximum 	155 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 55 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 10 000 1/h • at DC 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-4 maximum 250 1/h Control circuit/ Control DC 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	 limited to 5 s switching at zero current maximum 	111 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 no-load switching frequency 10 000 1/h • at DC 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 250 1/h • at AC-4 maximum 24 V • rated value 24 V	 limited to 10 s switching at zero current maximum 	86 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency 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 250 1/h • at AC-4 maximum 24 V • rated value 24 V • operating range factor control supply voltage rated value of magnet coil at DC Imagenet coil at DC	 limited to 30 s switching at zero current maximum 	66 A; Use minimum cross-section acc. to AC-1 rated value		
• at DC10 000 1/hoperating frequency• at AC-1 maximum1 000 1/h• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDC• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC24 V	 limited to 60 s switching at zero current maximum 	55 A; Use minimum cross-section acc. to AC-1 rated value		
operating frequencyI• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDC• control circuit/ ControlDC• rated value24 V• rated value24 V	no-load switching frequency			
• at AC-1 maximum1 000 1/h• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum250 1/h• at AC-4 maximum250 1/h• at AC-4 maximumDCControl circuit/ ControlDCcontrol supply voltage at DC0• rated value24 Voperating range factor control supply voltage rated value of magnet coil at DC1	• at DC	10 000 1/h		
• at AC-2 maximum750 1/h• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-3e maximum250 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	operating frequency			
• at AC-3 maximum750 1/h• at AC-3e maximum750 1/h• at AC-4 maximum250 1/hControl circuit/ Control250 1/htype of voltage of the control supply voltageDCcontrol supply voltage at DC24 V• rated value24 V	• at AC-1 maximum	1 000 1/h		
• 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-2 maximum	750 1/h		
• 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	• at AC-3 maximum	750 1/h		
Control circuit/ Control type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V operating range factor control supply voltage rated value of magnet coil at DC Image: Control supply voltage rated value of magnet coil at DC	• at AC-3e maximum	750 1/h		
type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V	● at AC-4 maximum	250 1/h		
type of voltage of the control supply voltage DC control supply voltage at DC 24 V • rated value 24 V	Control circuit/ Control			
control supply voltage at DC • rated value 24 ∨ operating range factor control supply voltage rated value of magnet coil at DC 24 ∨		DC		
operating range factor control supply voltage rated value of magnet coil at DC				
operating range factor control supply voltage rated value of magnet coil at DC		24 V		
magnet coil at DC				
initial value 0.8				
	● initial value	0.8		

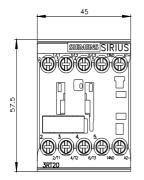
full sector veloc	
• full-scale value	1.1
closing power of magnet coil at DC	4 W
holding power of magnet coil at DC	4 W
closing delay	00 100
• at DC	30 100 ms
opening delay	7 40
• at DC	7 13 ms
arcing time	10 15 ms
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2
number of NO contacts for auxiliary contacts instantaneous	1
contacts for auxiliary contacts instantaneous	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1 A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
at 125 V rated value	2 A
at 220 V rated value	1A
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	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)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	7.6 A
at 600 V rated value	9 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
- 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 220/200 V rated value	2 np 3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 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 	aC: 254 (600)/ 100k4) aM: 204 (600)/ 100k4) BC00, 254 (445)/ 00k4)
 with type of coordination 1 required with type of assignment 2 required 	gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
 with type of assignment 2 required for short circuit protection of the quiviliant quitch 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	standing, on horizontal 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

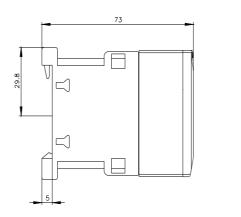
recircle spacing set with side by side mounting - input dis 10 mm - input dis 10 mm - input dis 10 mm - downsals 10 mm - downsals 10 mm - downsals 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downsads 50 mm	depth	73 mm
- forwards 10 mm - downards 10 mm - downards 10 mm - a the side 0 mm - forwards 10 mm - upwards 10 mm - downards 10 mm - downards 10 mm - downards 10 mm - downards 10 mm - upwards 10 mm - downards 10 mm - downards 10 mm - downards 10 mm - downards 20 mm <t< td=""><td>required spacing</td><td></td></t<>	required spacing	
	 with side-by-side mounting 	
- downards0 mm- at the side0 mm- for yourds0 mm- for yourds10 mm- up yourds10 mm- up yourds0 mm- up yourds0 mm- downards0 mm- downards0 mm- downards10 mm- up yourds10 mm- up yourds5 mm- oth yourds2 (0.5 . 1.5 mm?), 2 (0.75 2.5 mm?), 2 x 4 mm²- words2 (0.5 1.5 mm?), 2 (0.75 2.5 mm?)- word yourds2 (0.5 1.5 mm?), 2 (0.75	— forwards	10 mm
	— upwards	10 mm
• for grounded parts·- forwards0 mm- forwards0 mm- at the side6 mm- orwards0 mm- orwards0 mm- for ive parts0 mm- upwards10 mm- upwards10 mm- upwards10 mm- ormandsscrew-type terminals- or auxiliary and control circuitscrew-type terminals- or auxiliary contactsScrew-type terminals- or auxiliary contacts <td< td=""><td>— downwards</td><td>10 mm</td></td<>	— downwards	10 mm
- lowards10 mm- upwards10 mm- upwards0 mm- downwards10 mm- downwards10 mm- downwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards0 mm- downards0 mm- downards0 mm- downards0 mm- downards0 mm- downards0 mm- downards0 mm<	— at the side	0 mm
	 for grounded parts 	
- at the side6 mm- downwards10 mm- forwards10 mm- forwards10 mm- upwards10 mm- downwards10 mm- downwards0 mm- downodre0 mm- downodre </td <td>— forwards</td> <td>10 mm</td>	— forwards	10 mm
downwards0 mm forwards10 mm upwards00 mm upwards00 mm downwards0 mm downwards6 mm downwards5 mm downwards2 mm downwards2 mm downwards2 mm downwards0 mm downards0 mm downards0 mm downards </td <td>— upwards</td> <td>10 mm</td>	— upwards	10 mm
• for live parts0- lowards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- downwards00 mm- downwards50 mmConnections/ Terminalsscrew-type terminalsfor rain current circuitscrew-type terminalsof or auxiliary and control dircuitscrew-type terminalsof or auxiliary contactsScrew-type terminalsof or auxiliary contactsScrew-type terminalsof auxil	— at the side	6 mm
- forwards 10 mm - upwards 10 mm - upwards 10 mm - ot messions/ Terminals 6 mm Connections/ Terminals screw-type terminals for main current circuit screw-type terminals of an axiliary and control dircuit screw-type terminals of an axiliary contacts Screw-type terminals of angret coll Screw-type terminals ype of connectable conductor cross-sections for main contacts Screw-type terminals of angret coll Screw-type terminals ype of connectable conductor cross-section for main contacts Screw-type terminals of angrit of the ore end processing Screw-type terminals of aduality stranded with core end processing Screw-type terminals of aduality contacts Screw-type terminals	— downwards	10 mm
	for live parts	
	— forwards	10 mm
	— upwards	10 mm
Connections/Terminals screw-type terminals if or add current circuit screw-type terminals is add current circuit	— downwards	10 mm
type of electrical connection of main current circuit sorew-type terminals of magnet coll Sorew-type terminals of magnet coll Sorew-type terminals Sorew-type termin	— at the side	6 mm
• for main current circuitscrew-type terminals• for auxilary and control circuitscrew-type terminals• of rauxilary contactsscrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contacts× (0.51,5 mm²), 2x (0.752,5 mm²), 2x 4 mm²• solidscrew-type terminals• solid0.515 mm²), 2x (0.752,5 mm²), 2x 4 mm²• solid0.545 mm²), 2x (0.752,5 mm²), 2x 4 mm²• solid0.545 mm²), 2x (0.752,5 mm²), 2x 4 mm²• solid0.545 mm²), 2x (0.752,5 mm²), 2x 4 mm²• solid0.54 mm²• solid0.54 mm²• solid0.54 mm²• forley stranded with core end processing0.525 mm²• forley stranded with core end processing0.525 mm²• forley stranded with core end processing0.525 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm²• for auxilary contacts2x (0.515 mm²), 2x (0.7525 mm²), 2x 4 mm² </td <td>Connections/ Terminals</td> <td></td>	Connections/ Terminals	
• for auxiliary and control circuit screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts solid • solid or stranded 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid or stranded with core end processing 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid or stranded 0.5 4 mm ³ • solid 0.5 4 mm ³ • solid 0.5 4 mm ³ • solid or stranded 0.5 4 mm ³ • stranded 0.5 4 mm ³ • solid or stranded 0.5 4 mm ³ • solid or stranded 0.5 4 mm ³ • solid or stranded 0.5 2.5 mm ³ • solid or stranded 0.5 2.5 mm ³ • solid or stranded 0.5 2.5 mm ³ • for auxiliary contacts 0.5 2.5 mm ³ • for auxiliary contacts 0.5 2.5 mm ³ • for connectable conductor cross-sections 0.5 2.5 mm ³ • for auxiliary contacts 22 (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 22 (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 22 (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 20 12 • for auxiliary contact	type of electrical connection	
• for auxiliary and control circuit screw-type terminals • of magnet coll Screw-type terminals type of connectable conductor cross-sections for main contacts solid • solid or stranded 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid or stranded with core end processing 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid 0.5 4 mm ³ • solid 0.5 4 mm ³ • stranded 0.5 4 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • for auxiliary contacts 0.5 4 mm ³ • for auxiliary contacts 0.5 4 mm ³ • for auxiliary contacts 0.5 2.5 mm ³ • for connectable conductor cross-sections 0.5 4 mm ³ • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for consclable conductor cross-sections 5 4 mm ³ • for auxiliary contacts 20 12 • for auxiliary contacts		screw-type terminals
• at contactor for auxiliary contacts Screw-type terminals • of magnet col Screw-type terminals • solid 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid or stranded 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid or stranded 0.5 4 mm ³ , 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid 0.5 4 mm ³ , 2x (0.75 2.5 mm ³), 2x 4 mm ³ • solid 0.5 4 mm ³ • solid with core end processing 0.5 4 mm ³ • solid or stranded 0.5 4 mm ³ • solid or stranded mith core end processing 0.5 2.5 mm ³ • onnectable conductor cross-section for auxiliary contacts 0.5 4 mm ³ • finely stranded with core end processing 0.5 2.5 mm ³ • or auxiliary contacts 2.6 mm ³ • or auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 2x (0.5 1.5 mm ³), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for auxiliary contacts 20 12 • for main contacts 20 12 • for main contacts 20 12 mm ³ , 2x (0.75 2.5 mm ³) </td <td> for auxiliary and control circuit </td> <td></td>	 for auxiliary and control circuit 	
• of magnet coll Screw-type terminals type of connectable conductor cross-sections for main contacts > x (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 • solid 0.5 4 mm² • solid or stranded 0.5 4 mm² • finely stranded with core end processing 0.5 2.5 mm²) • solid or stranded 0.5 2.5 mm² • finely stranded with core end processing 0.5 2.5 mm² • for auxiliary contacts 0.5 2.5 mm² • for auxiliary contacts 0.5 2.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 0.5 2.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 2 (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm² • for auxiliary contacts 2 (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2 (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2 (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for auxiliary contacts 2 (0.5 1.5 mm²), 2x (0.	-	Screw-type terminals
• 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 • solid 0.5 4 mm² • solid 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded with core end processing 0.5 4 mm² • solid or stranded or cores-section for auxiliary contacts 0.5 4 mm² • solid or stranded or strand	 of magnet coil 	Screw-type terminals
• 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 • solid 0.5 4 mm² • solid 0.5 4 mm² • solid 0.5 4 mm² • solid or stranded with core end processing 0.5 4 mm² • solid or stranded or cores-section for auxiliary contacts 0.5 4 mm² • solid or stranded or strand	type of connectable conductor cross-sections for main contacts	
• finely stranded with core and processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)connectable conductor cross-section for main contacts0.5 4 mm²• solid0.5 4 mm²• finely stranded with core and processing0.5 2.5 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core and processing0.5 2.5 mm²• finely stranded with core and processing0.5 2.5 mm²• for auxiliary contacts 5 mm², 2x (0.75 2.5 mm²), 2x 4 mm²• finely stranded with core and processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²• finely stranded with core and processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14), 2x 12AWG number as coded connectable conductor cross section20 12• for auxiliary contacts20 12• for auxiliary contacts20 12safety rolated data1000 000product function • miror contact according to IEC 60947.4-1Yes; with 3RH29B10 value with high demand rate according to SN 31920100 000product function • with high demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to SN 3192073 %failure rate [FIT] with low demand rate according to IEC 60529IP20<		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
connectable conductor cross-section for main contacts 0.5 4 mm ² • solid 0.5 4 mm ² • stranded 0.5 4 mm ² • finely stranded with core end processing 0.5 2.5 mm ² connectable conductor cross-section for auxiliary contacts 0.5 4 mm ² • solid or stranded 0.5 4 mm ² • finely stranded with core end processing 0.5 4 mm ² (f) reg of connectable conductor cross-sections • for auxiliary contacts • of rauxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²), 2x 4 mm ³ • for alvOK cables for auxiliary contacts 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ³), 2x 4 mm ³ • for main contacts 20 12 Safety related data 1000 000 proportion of dangerous failures 40 % • with high demand rate according to SN 31920 100 FIT 11 value for proof test interval or service life according to IEC 60529 IP20 failure rate [FIT] with low demand rate according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 <td> solid or stranded </td> <td>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²</td>	 solid or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
• solid0.5 4 mm²• stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²connectable conductor cross-section for auxiliary contacts0.5 4 mm²• solid or stranded0.5 4 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts0.5 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- solid or stranded2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²• for nain contacts20 12• for main contacts20 12• for auxiliary contacts20 12• for duating to lEC 60947.4-1Yes; with 3RH29Product function100 000• with high demand rate according to SN 31920100 FIT• with low demand rate according to SN 31920100 FIT• with low demand rate according to SN 31920100 FITT1 value for proof test i	 finely stranded with core end processing 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
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• 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 • for main contacts 20 12 Safety related data 20 12 Safety related data 20 12 B10 value with high demand rate according to IEC 60947-4-1 Yes; with 3RH29 B 10 value with high demand rate according to SN 31920 1000 000 proportion of dangerous failures 40 % • with low demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT 11 value for proof test interval or service life according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 IP20 safety-related switching OFF Yes certificates/ approvals Yes	— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
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• for main contacts 20 12 • for auxiliary contacts 20 12 Safety related data	AWG number as coded connectable conductor cross	
• for auxiliary contacts 20 12 Safety related data	section	
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• mirror contact according to IEC 60947-4-1 Yes; with 3RH29 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 100 FIT T1 value for proof test interval or service life according to IEC 60529 IP20 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use - - • safety-related switching OFF Yes	Safety related data	
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 with low demand rate according to SN 31920 with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 suitability for use safety-related switching OFF Yes 	B10 value with high demand rate according to SN 31920	1 000 000
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failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 20 a failows IP20 touch protection on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes Certificates/ approvals Ves	 with low demand rate according to SN 31920 	40 %
T1 value for proof test interval or service life according to IEC 20 a 61508 20 a protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes Certificates/ approvals Ves	 with high demand rate according to SN 31920 	73 %
61508 IP20 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes Certificates/ approvals	failure rate [FIT] with low demand rate according to SN 31920	100 FIT
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes Certificates/ approvals		20 a
suitability for use • safety-related switching OFF Yes Certificates/ approvals Yes	protection class IP on the front according to IEC 60529	IP20
safety-related switching OFF Yes Certificates/ approvals	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	suitability for use	
	 safety-related switching OFF 	Yes
General Product Approval	Certificates/ approvals	
	General Product Approval	

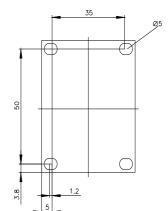
(SP) CEM	<u>Confirmation</u>		(U) UI	KC	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conform	mity	Test Certificates	
RGM	Type Examination Cer- tificate	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
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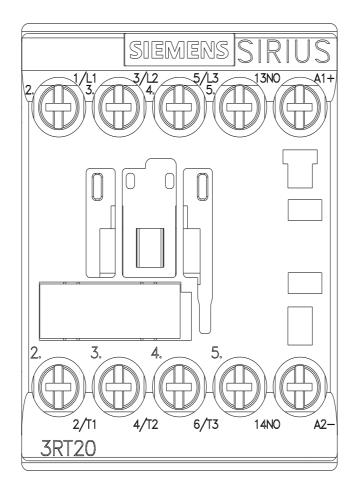
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-1BB41-1AA0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-1BB41-1AA0&objecttype=14&gridview=view1

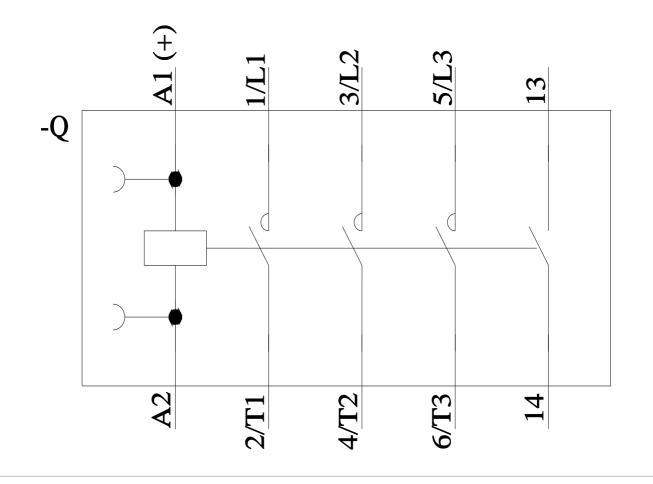








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