SIEMENS

Data sheet

3RT2028-2BG40



Power contactor, AC-3 38 A, 18.5 kW / 400 V 1 NO + 1 NC, 125 V DC 3-pole, size S0 Spring-type terminals

was doned being a series			
product brand name	SIRIUS Bauar contector		
product designation	Power contactor		
product type designation	3RT2		
General technical data			
size of contactor	SO		
product extension			
function module for communication	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state 	9.6 W		
 at AC in hot operating state per pole 	3.2 W		
without load current share typical	5.9 W		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	690 V		
 of auxiliary circuit with degree of pollution 3 rated value 	690 V		
surge voltage resistance			
 of main circuit rated value 	6 kV		
 of auxiliary circuit rated value 	6 kV		
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V		
shock resistance at rectangular impulse			
• at DC	10g / 5 ms, 7,5g / 10 ms		
shock resistance with sine pulse			
• at DC	15g / 5 ms, 10g / 10 ms		
mechanical service life (switching cycles)			
 of contactor typical 	10 000 000		
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000		
 of the contactor with added auxiliary switch block typical 	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2009		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-55 +80 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		

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 value 	50 A
● at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	50 A
— up to 690 V at ambient temperature 60 °C rated value	42 A
• at AC-3	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
• at AC-3e	
— at 400 V rated value	38 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
 at AC-4 at 400 V rated value 	22 A
 at AC-5a up to 690 V rated value 	44 A
 at AC-5b up to 400 V rated value 	31.5 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	30.8 A
 — up to 400 V for current peak value n=20 rated value 	30.8 A
— up to 500 V for current peak value n=20 rated value	30.8 A
 — up to 690 V for current peak value n=20 rated value at AC-6a 	21 A
 up to 230 V for current peak value n=30 rated value 	20.5 A
 up to 400 V for current peak value n=30 rated value 	20.5 A
 — up to 500 V for current peak value n=30 rated value 	21.4 A
— up to 690 V for current peak value n=30 rated value	21 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	10 mm ²
cycles at AC-4	
at 400 V rated value	12 A
• at 690 V rated value	12 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	5 A
— at 440 V rated value	1A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	

	— at 24 V rated value	35 A
	— at 110 V rated value	35 A
	— at 220 V rated value	35 A
• + it ourment path at DC-3 at DC-5 20 A at 22 V rated value 25 A at 220 V rated value 0.09 A at 400 V rated value 0.09 A at 600 V rated value 0.09 A at 20 V rated value 0.09 A at 20 V rated value 0.09 A at 20 V rated value 35 A at 20 V rated value 0.09 A	— at 440 V rated value	2.9 A
	— at 600 V rated value	1.4 A
	 at 1 current path at DC-3 at DC-5 	
	— at 24 V rated value	20 A
	— at 110 V rated value	2.5 A
 	— at 220 V rated value	1 A
with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 220 V rated value 35 A at 220 V rated value 37 A at 220 V rated value 27 A at 24 V rated value 27 A at 24 V rated value 27 A at 24 V rated value 36 A at 24 V rated value 37 A at 24 V rated value 36 A at 400 V rated value 36 A at 400 V rated value 36 A at 400 V rated value 36 A at 260 V rated value 36 S KW at 260 V rated value 37 S KW at 260 V rated value 30 S KW at 260 V rated value 30 V rated value 30 S KW 30 V rated value	— at 440 V rated value	0.09 A
	— at 600 V rated value	0.06 A
- al 110 V rated value 15 Å - at 220 V rated value 3 Å - at 440 V rated value 0.16 Å • with 3 current paths series at DC-3 at DC-5 - at 24 V rated value - at 24 V rated value 35 Å - at 24 V rated value 36 Å - at 24 V rated value 36 Å - at 24 V rated value 0.6 Å - at 200 V rated value 0.6 Å - at 200 V rated value 0.6 Å - at 200 V rated value 18.5 kW - at 600 V rated value 18.5 kW - at 500 V rated value 18.5 kW - at 200 V rated value 18.5 kW - at 200 V rated value 18.5 kW - at 300 V rated value 12.5 kW - at 300 V rated value 12.5 kW - at 300 V rated value 13.5 kW - a	 with 2 current paths in series at DC-3 at DC-5 	
	— at 24 V rated value	35 A
- at 440 V rated value 0.27 A - at 600 V rated value 0.16 A - at 24 V rated value 35 A - at 110 V rated value 35 A - at 1220 V rated value 10 A - at 220 V rated value 0.6 A - at 200 V rated value 0.6 A - at 200 V rated value 0.6 A - at 200 V rated value 18.5 kW - at 400 V rated value 18.5 kW - at 400 V rated value 10.3 kW - at 400 V rated value 10.3 kW - at 400 V rated value 10.3 kW - op to 200 V for current pack value n=20 rated value 21.3 kVA - up to 200 V for current pack value n=20 rated value 21.3 kVA - up to 200 V for current pack value n=30 rated value 25 kVA - up to	— at 110 V rated value	15 A
	— at 220 V rated value	3 A
 with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 35 A at 210 V rated value 36 A at 220 V rated value 06 A at 400 V rated value 06 A operating power at AC-3 at AC-4 at AC-4 at AC-3 at AC-3 at AC-3 at AC-4 a	— at 440 V rated value	0.27 A
	— at 600 V rated value	0.16 A
	 with 3 current paths in series at DC-3 at DC-5 	
		35 A
	— at 110 V rated value	35 A
	— at 220 V rated value	10 A
operating power at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value at 600 V rated value at 85 kW at 800 V rated value at 400 V rated value at 600 V rated value bt 5 kW at 400 V rated value bt 5 kW at 400 V rated value bt 5 kW at 400 V rated value bt 600 V for current peak value n=20 rated value at 600 V rated value n=20 rated value at 600 V for current peak value n=20 rated value at 600 V for current peak value n=20 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value bt 600 V for current peak value n=30 rated value	— at 440 V rated value	0.6 A
• at AC-2 at 400 V rated value 18.5 kW • at AC-3 11 kW - at 200 V rated value 18.5 kW - at 500 V rated value 18.5 kW - at 600 V rated value 18.5 kW - at 230 V rated value 18.5 kW - at 600 V rated value 18.5 kW operating apparent power at AC-6a 10.3 kW • up to 200 V for current peak value n=20 rated value 25 kVA operating apparent power at AC-6a 12.2 kVA • up to 690 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 690 V for current peak value n=30 rated value 25 kVA <td>— at 600 V rated value</td> <td>0.6 A</td>	— at 600 V rated value	0.6 A
 at AC-2 at 400 V rated value at AC-3 at AC-4 at AC-4	operating power	
• at AC-3 - at 230 V rated value 11 kW - at 230 V rated value 18.5 kW - at 650 V rated value 18.5 kW - at 650 V rated value 15.5 kW - at 230 V rated value 11 kW - at 400 V rated value 18.5 kW - at 400 V rated value 18.5 kW - at 500 V rated value 18.5 kW - at 630 V rated value 18.5 kW - at 630 V rated value 18.5 kW - at 630 V rated value 18.5 kW operating power for approx. 20000 operating cycles at AC-4 18.5 kW • at 400 V rated value 10.3 kW operating apparent power at AC-6a 12.2 kVA • up to 200 V for current peak value n=20 rated value 21.3 kVA operating apparent power at AC-6a 26.6 kVA • up to 500 V for current peak value n=30 rated value 25.6 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 25 kVA		18.5 kW
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	— at 400 V rated value	18.5 kW
• at AC-3e 11 kW - at 230 V rated value 11 kW - at 400 V rated value 18.5 kW - at 690 V rated value 18.5 kW - at 690 V rated value 18.5 kW operating power for approx. 20000 operating cycles at AC-4 6 kW • at 400 V rated value 6 kW • at 400 V rated value 10.3 kW operating apparent power at AC-6a 12.2 kVA • up to 230 V for current peak value n=20 rated value 12.2 kVA • up to 500 V for current peak value n=20 rated value 26.6 kVA • up to 690 V for current peak value n=20 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 690 V for current peak value n=30 rated value 25 kVA short-time withstand current in cold operating state uplot 0	— at 500 V rated value	18.5 kW
• at AC-3e 11 kW - at 230 V rated value 11 kW - at 400 V rated value 18.5 kW - at 690 V rated value 18.5 kW - at 690 V rated value 18.5 kW operating power for approx. 20000 operating cycles at AC-4 6 kW • at 400 V rated value 6 kW • at 400 V rated value 10.3 kW operating apparent power at AC-6a 12.2 kVA • up to 230 V for current peak value n=20 rated value 12.2 kVA • up to 500 V for current peak value n=20 rated value 26.6 kVA • up to 690 V for current peak value n=20 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 500 V for current peak value n=30 rated value 25 kVA operating apparent power at AC-6a 8.1 kVA • up to 690 V for current peak value n=30 rated value 25 kVA short-time withstand current in cold operating state uplot 0	— at 690 V rated value	18.5 kW
	— at 230 V rated value	11 kW
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 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 25 kVA short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching 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 limited to 60 s switching	• up to 690 V for current peak value n=20 rated value	25 kVA
 up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum to 60 s switching frequency at DC to 20 1/h 	operating apparent power at AC-6a	
• up to 500 V for current peak value n=30 rated value18.5 kVA• up to 690 V for current peak value n=30 rated value25 kVAshort-time withstand current in cold operating state up to 40 °C593 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum593 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum395 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum260 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum152 A; Use minimum cross-section acc. to AC-1 rated value• at DC1 500 1/h• at DC1 500 1/h• at AC-1 maximum1 000 1/h	 up to 230 V for current peak value n=30 rated value 	8.1 kVA
• up to 690 V for current peak value n=30 rated value25 kVAshort-time withstand current in cold operating state up to 40 °C593 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 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 • limited to 60 s switching at zero current maximum • 152 A; Use minimum cross-section acc. to AC-1 rated value • 152 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at DC1 500 1/hoperating frequency • at AC-1 maximum1 000 1/h	 up to 400 V for current peak value n=30 rated value 	14.2 kVA
short-time withstand current in cold operating state up to 40 °C593 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • 1 500 1/h1500 1/h• at DC • at AC-1 maximum1 000 1/h	 up to 500 V for current peak value n=30 rated value 	18.5 kVA
up to 40 °C• limited to 1 s switching at zero current maximum• limited to 5 s switching at zero current maximum• limited to 10 s switching at zero current maximum• limited to 30 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching at zero current maximum• limited to 60 s switching frequency• at DC• at DC• at AC-1 maximum• at AC-1 maximum1 000 1/h	• up to 690 V for current peak value n=30 rated value	25 kVA
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at DC operating frequency at AC-1 maximum 1 000 1/h 		
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching frequency at DC operating frequency at AC-1 maximum 1 000 1/h 	-	
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 150 1/h 	-	
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 186 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 152 A; Use minimum cross-section acc. to AC-1 rated value 150 1/h operating frequency at AC-1 maximum 1000 1/h 	-	
• limited to 60 s switching at zero current maximum 152 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency • at DC • at DC 1 500 1/h operating frequency • at AC-1 maximum • at AC-1 maximum 1 000 1/h	-	
no-load switching frequency 1 500 1/h • at DC 1 500 1/h operating frequency 1 000 1/h	-	
• at DC 1 500 1/h operating frequency 1 000 1/h		152 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency 1 000 1/h		
at AC-1 maximum 1 000 1/h		1 500 1/h
• at AC-2 maximum 750 1/h		
	at AC-2 maximum	750 1/h

• at AC-3 maximum	750 1/h			
• at AC-3e maximum	750 1/h			
• at AC-4 maximum	250 1/h			
Control circuit/ Control				
type of voltage of the control supply voltage	DC			
control supply voltage at DC				
rated value	125 V			
operating range factor control supply voltage rated value of magnet coil at DC				
• initial value	0.8			
full-scale value	1.1			
closing power of magnet coil at DC	5.9 W			
holding power of magnet coil at DC	5.9 W			
closing delay				
• at DC	50 170 ms			
opening delay				
• at DC	15 17.5 ms			
arcing time	10 10 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
number of NC contacts for auxiliary contacts	1			
instantaneous contact				
number of NO contacts for auxiliary contacts	1			
instantaneous contact				
operational current at AC-12 maximum	10 A			
operational current at AC-15				
• at 230 V rated value	10 A			
at 400 V rated value	3 A			
• at 500 V rated value	2 A			
at 690 V rated value	1 A			
operational current at DC-12				
• at 24 V rated value	10 A			
• at 48 V rated value	6 A			
at 60 V rated value	6 A			
• at 110 V rated value	3 A			
• at 125 V rated value	2 A			
• at 220 V rated value	1 A			
at 600 V rated value	0.15 A			
operational current at DC-13				
• at 24 V rated value	10 A			
at 48 V rated value	2 A			
• at 60 V rated value	2 A			
at 110 V rated value	1 A			
at 125 V rated value	0.9 A			
at 220 V rated value	0.3 A			
at 600 V rated value	0.1 A			
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor	24.4			
at 480 V rated value	34 A			
• at 600 V rated value yielded mechanical performance [hp]	27 A			
vielded mechanical performance (np)				
 for single-phase AC motor 	3 hp			
 for single-phase AC motor — at 110/120 V rated value 	3 hp			
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 	3 hp 5 hp			
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor 	5 hp			
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	5 hp 10 hp			
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value 	5 hp 10 hp 10 hp			
 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 	5 hp 10 hp			

contact rating of auxiliary contacts according to UL	A600 / P600			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG: 125A (690V,100kA), aM: 50A (690V,100kA), BS88: 125A (415V,80kA)			
— with type of assignment 2 required	gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V, 80kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted			
	forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
 side-by-side mounting 	Yes			
height	102 mm			
width	45 mm			
depth	107 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 (1 10 mm²)			
— solid or stranded	2x (1 10 mm²)			
- finely stranded with core end processing	2x (1 6 mm²)			
- finely stranded without core end processing	2x (1 6 mm ²)			
at AWG cables for main contacts	2x (18 8)			
connectable conductor cross-section for main contacts				
• solid	1 10 mm²			
• stranded	1 10 mm²			
 finely stranded with core end processing 	1 6 mm²			
 finely stranded without core end processing 	1 6 mm²			
connectable conductor cross-section for auxiliary contacts				
 solid or stranded 	0.5 2.5 mm²			
 finely stranded with core end processing 	0.5 1.5 mm²			
 finely stranded without core end processing 	0.5 2.5 mm²			
type of connectable conductor cross-sections				
for auxiliary contacts				

finely strarat AWG cables	anded nded with core end proc nded without core end p for auxiliary contacts ded connectable cond	processing	2x (0.5 2. 2x (0.5 1. 2x (0.5 2. 2x (20 14	5 mm²) 5 mm²)		
• for main contac			18 8			
 for auxiliary con 	ntacts		20 14			
Safety related data						
product function						
•	according to IEC 60947	-4-1	Yes			
	emand rate according t		450 000			
proportion of dange						
	d rate according to SN	31920	40 %			
	nd rate according to SN		73 %			
	low demand rate accord		100 FIT			
31920 T1 value for proof test	t interval or service life		20 y			
	on the front according	to IEC	IP20			
60529						
suitability for use	the front according to	DIEC 60529		for vertical conta	act from the front	
 safety-related s 			Yes			
Certificates/ approval	S					
General Product Ap	proval					
OF	Eurotional			Ű		tHL
EMC	Functional Safety/Safety of Machinery	Declaration of	of Conformity		Test Certificates	
RCM	<u>Type Examination</u> <u>Certificate</u>	UK CA		CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>
Marine / Shipping						
marine / Onipping						
ABS	BUREAU VERITAS			Llovds Register urs	PRS	RINA
Marine / Shipping	other				Dangerous Good	
RMRS	<u>Confirmation</u>	Environmental firmations		VDE	<u>Transport Informa-</u> <u>tion</u>	
Further information						
	wnloadcenter (Catalo	gs, Brochures)			
	https://www.siemens.com/ic10					

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2028-2BG40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-2BG40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2BG40

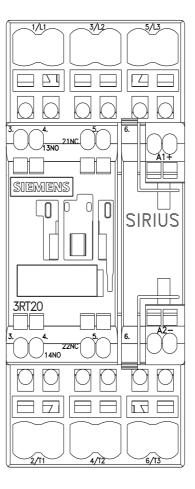
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-2BG40&lang=en</u>

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-2BG40/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2028-2BG40&objecttype=14&gridview=view1



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