SIEMENS

Data sheet 3RT2027-4BB40



Power contactor, AC-3 32 A, 15 kW / 400 V 1 NO + 1 NC, 24 V DC 3-pole, size S0 ring cable lug connection

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	6.3 W
 at AC in hot operating state per pole 	2.3 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 	50 A
rated value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	50 A
	42 A
 up to 690 V at ambient temperature 60 °C rated value 	42 A
• at AC-3	
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
at AC-3e	-
— at 400 V rated value	32 A
— at 500 V rated value	32 A
— at 690 V rated value	21 A
at AC-4 at 400 V rated value at AC-5 aug to 600 V rated value	22 A
at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value	44 A
at AC-5b up to 400 V rated value	26.5 A
• at AC-6a	20.04
 up to 230 V for current peak value n=20 rated value 	30.8 A
	20.0 4
 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	27 A
value	
— up to 690 V for current peak value n=20 rated	21 A
value	
• at AC-6a	
 up to 230 V for current peak value n=30 rated 	20.5 A
value	
— up to 400 V for current peak value n=30 rated	20.5 A
value	10 A
 up to 500 V for current peak value n=30 rated value 	18 A
— up to 690 V for current peak value n=30 rated	18 A
value	1071
minimum cross-section in main circuit at maximum AC-1	10 mm²
rated value	
operational current for approx. 200000 operating	
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	1 A
— at 600 V rated value	0.8 A
 with 3 current paths in series at DC-1 	
<u> </u>	

— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	35 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
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 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	
— at 24 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	15 kW
— at 690 V rated value	18.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	6 kW
at 690 V rated value	10.3 kW
operating apparent power at AC-6a	
• up to 230 V for current peak value n=20 rated value	12.2 kVA
• up to 400 V for current peak value n=20 rated value	21.3 kVA
• up to 500 V for current peak value n=20 rated value	23.3 kVA
• up to 690 V for current peak value n=20 rated value	25 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	8.1 kVA
• up to 400 V for current peak value n=30 rated value	14.2 kVA
• up to 500 V for current peak value n=30 rated value	15.5 kVA
• up to 690 V for current peak value n=30 rated value	21.5 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	499 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	395 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	260 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	186 A; Use minimum cross-section acc. to AC-1 rated value
 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	1 500 1/h
operating frequency	
• 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 %h Control circuit Centrol Supply voltage at DC year of voltage of the control supply voltage at DC year of voltage year of water of voltage at DC year of voltage year of water of w	at AC-3e maximum	750 1/h
Section Circuit Control Sypo divatage of the control supply voltage DC Faled value		
Type of voltage of the control supply voltage DC		200 1111
Control supply voltage at DC		DC
- rated value 24 V		
Operational current at AC-12 maximum 10 A Operational current at AC-15 Operational current at AC-16 Operational current at AC-17 maximum Operational current at AC-18 Operational current at AC-19 Operat		24 V
Value of magnet coll at DC Initial value		L1 V
Closing power of magnet coil at DC	_	0.8
Noticing power of magnet coil at DC So 170 ms	• full-scale value	1.1
closing delay	closing power of magnet coil at DC	5.9 W
e at DC opening delay	holding power of magnet coil at DC	5.9 W
a ti DC	closing delay	
a al DC 15 17.5 ms arcing time 10 10 ms Auxiliary circuit number of NC contacts for auxiliary contacts at 230 V rated value 10 A		50 170 ms
arcing time		
Control version of the switch operating mechanism Standard A1 - A2		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts 1 number of NO contact for auxiliary contacts 1 number of NO contacts 1 number of NO contacts 1 number of NO contacts 1		
number of NC contacts for auxiliary contacts 1		Standard A1 - A2
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 160 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated value • at 120 V rated value • at 120 V rated value • at 125 V rated value • at 125 V rated value • at 126 V rated value • at 127 V rated value • at 128 V rated value • at 129 V rated value • at 129 V rated value • at 129 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value • at 120 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 480 V rated value • at 480 V rated value • at 200 V rated value • at 100 V rated value • at 200 V rated value • at 575600 V rated value • 20 bp • at 575600 V rated value • 20 bp • at 575600 V rated value • 20 bp		
number of NO contacts for auxiliary contacts instalnateous contact 1 10 10 10 10 10 10 10		1
instantaneous contact operational current at AC-12 maximum operational current at AC-15 * at 230 V rated value * at 400 V rated value * at 6500 V ra		1
Operational current at AC-15		
	operational current at AC-12 maximum	10 A
	operational current at AC-15	
	• at 230 V rated value	10 A
• at 690 V rated value 10 A operational current at DC-12 • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 3 A • at 110 V rated value 11 A • at 220 V rated value 11 A • at 220 V rated value 11 A • at 48 V rated value 11 A • at 220 V rated value 11 A • at 220 V rated value 11 A • at 24 V rated value 11 A • at 48 V rated value 2 A • at 24 V rated value 2 A • at 25 V rated value 2 A • at 26 V rated value 2 A • at 27 V rated value 2 A • at 48 V rated value 2 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 125 V rated value 1 A • at 20 V rated value 1 A • at 20 V rated value 1 A • at 34 V rated value 1 A • at 34 V rated value 2 A • at 48 V rated value 2 A • at 600 V rated value 3 A • at 600 V rated value 2 A • at 600 V rated value 3 A • at 600 V rated value 4 A • at 600 V rated value 5 A • at 600 V rated value 5 A • at 200 V rated value 1 A • at 200 V rated value 2 A • at 200 V rated value 2 A • at 200 V rated value 2 A • at 200 V rated value 3 A • at 200 V rated value 4 A • at 200 V rated value 5 A • at 200 V rated value 5 A • at 200 V rated value 10 A • at 200 V rated value 20 A • at 200 V rated value 30 A •	• at 400 V rated value	
Operational current at DC-12	• at 500 V rated value	
at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 10 A at 22 V rated value at 10 A at 22 V rated value at 10 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 30 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 480 V rated value 27 A yielded mechanical performance [hp] of or single-phase AC motor — at 110/120 V rated value at 230 V rated value at 230 V rated value of 3-phase AC motor — at 230 V rated value of 3-phase AC motor — at 230 V rated value of 3-phase AC motor — at 200/208 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor — at 480/480 V rated value of 3-phase AC motor		1 A
 at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 1 A at 600 V rated value at 600 V rated value 1 A at 600 V rated value 10 A at 48 V rated value at 48 V rated value 2 A at 60 V rated value 2 A at 10 V rated value 2 A at 110 V rated value 1 A at 120 V rated value 1 A at 120 V rated value 1 A at 120 V rated value 1 A at 100 V rated value 1 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) ULCSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 27 A yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 5 hp for 3-phase AC motor at 200/208 V rated value 5 hp for 3-phase AC motor at 220/230 V rated value 10 hp at 460/480 V rated value 20 hp at 460/480 V rated value 20 hp at 575/600 V rated value 25 hp 	•	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 24 V rated value operational current at DC-13 at 24 V rated value at 80 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 10 A at 10 A at 24 V rated value at 10 A at 20 V rated value at 10 A at 10 V rated value at 10 A at 125 V rated value at 125 V rated value at 20 V rated value at 200 V rated value at 300 V rated value at 300 V rated value at 480 V rated value at 600 V rated value at 7 A at 100 V rated value at 27 A at 100 V rated value at 200 V rated value b for single-phase AC motor at 100 V rated value at 200 V rated value b fp at 200 V rated value b fp at 200 V rated value at 200 V rated value b fp at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 5 fp at 575/600 V rated value 25 fp 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 260 V rated value at 260 V rated value operational current at DC-13 at 24 V rated value at 20 V rated value at 110 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 300 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 7 A at 600 V rated value at 7 A at 100 V rated value at 27 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 120 V rated value b 10 hp at 200/208 V rated value at 460/480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 7 hp at 600 V rated value at 7 hp at 600 V rated value at		
 at 125 V rated value at 220 V rated value at 600 V rated value ontract value at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 25 V rated value at 20 V rated value at 20 V rated value at 30 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 20 V rated value b 10 hp at 220/230 V rated value at 220/230 V rated value at 480/480 V rated value at 460/480 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value 25 hp 		
 at 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 8 V rated value at 60 V rated value at 10 A at 48 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 30 V rated value at 600 V rated value at 7 A at 600 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 10/120 V rated value bhp at 230 V rated value 5 hp for 3-phase AC motor at 200/208 V rated value bhp at 200/208 V rated value bhp at 480/480 V rated value 20 hp at 480/480 V rated value 20 hp at 575/600 V rated value 25 hp 		
■ at 600 V rated value Operational current at DC-13 ■ at 24 V rated value ■ at 48 V rated value ■ at 60 V rated value ■ at 60 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 125 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 800 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 80 V rated value ■ at 7 A yielded mechanical performance [hp] ■ for single-phase AC motor — at 110/120 V rated value ■ for 3-phase AC motor — at 200/208 V rated value ■ for 3-phase AC motor — at 200/208 V rated value ■ at 200/208 V rated value ■ at 460/480 V rated value □ at 460/480 V rated value □ at 575/600 V rated value □ 5 hp		
operational current at DC-13		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 600 V rated value o.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 at 600 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value bp at 575/600 V rated value at 575/600 V rated value 		0.13 A
• at 48 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • 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 • for 3-phase AC motor • at 200/208 V rated value • at 200/208 V rated value • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value • 25 hp	•	10 Δ
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 100/120 V rated value at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value bp at 575/600 V rated value at 57b/600 V rated value 		
• at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value contact reliability of auxiliary contacts I 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 • at 600 V rated value 27 A yielded mechanical performance [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 — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 2 hp 2 hp 3 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 2 hp 4 on the for 3-phase AC motor 5 hp		
 at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 7 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 200 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 200/208 V rated value at 260/230 V rated value at 260/480 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value 		
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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 • at 600 V rated value 27 A yielded mechanical performance [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 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 25 hp		
Tull-load current (FLA) for 3-phase AC motor		
full-load current (FLA) for 3-phase AC motor ● at 480 V rated value 27 A ● at 600 V rated value 27 A yielded mechanical performance [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 — at 460/480 V rated value — at 575/600 V rated value 25 hp 		
 at 480 V rated value at 600 V rated value 27 A yielded mechanical performance [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 at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value at 575/600 V rated value at 575/600 V rated value 		
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 2 hp — at 230 V rated value 5 hp • for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp		27 A
 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 at 460/480 V rated value at 575/600 V rated value for 3 -phase AC motor hp at 220/238 V rated value bp 20 hp at 575/600 V rated value bp	• at 600 V rated value	27 A
 — at 110/120 V rated value — at 230 V rated value 5 hp for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 25 hp 	yielded mechanical performance [hp]	
— at 230 V rated value 5 hp ● for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp	 for single-phase AC motor 	
● for 3-phase AC motor — at 200/208 V rated value 10 hp — at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp	— at 110/120 V rated value	2 hp
- at 200/208 V rated value 10 hp - at 220/230 V rated value 10 hp - at 460/480 V rated value 20 hp - at 575/600 V rated value 25 hp	— at 230 V rated value	5 hp
— at 220/230 V rated value 10 hp — at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp	 for 3-phase AC motor 	
— at 460/480 V rated value 20 hp — at 575/600 V rated value 25 hp	 at 200/208 V rated value 	10 hp
— at 575/600 V rated value 25 hp	 at 220/230 V rated value 	
	 at 460/480 V rated value 	20 hp
contact rating of auxiliary contacts according to UL A600 / P600		25 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
— with type of assignment 2 required	(415V,80kA) gG: 50A (690V,100kA), aM: 25A (690V, 100kA), BS88: 50A (415V,
for short-circuit protection of the auxiliary switch	80kA) gG: 10 A (500 V, 1 kA)
required	3
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	85 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	Citim
type of electrical connection	
	Ring cable lug connection
for main current circuit for auxiliary and control circuit	
for auxiliary and control circuit act control for auxiliary contracts	ring terminal lug connection Ring cable lug connection
at contactor for auxiliary contacts of magnet soil	
of magnet coil Coffice related data	Ring cable lug connection
Safety related data	
product function	W
mirror contact according to IEC 60947-4-1 Page 15 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	Yes
B10 value with high demand rate according to SN 31920	450 000
proportion of dangerous failures	40.07
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 61508	20 y
protection class IP on the front according to IEC 60529	IP00
suitability for use	
safety-related switching OFF	Yes
Certificates/ approvals	
General Product Approval	
On order Florida Chapter and C	



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Test Certificates

Marine / Shipping

Miscellaneous











Marine / Shipping

other

Dangerous Good





Confirmation

Environmental Confirmations



Transport Information

Further information

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=3RT2027-4BB40

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-4BB40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2027-4BB40&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2027-4BB40/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2027-4BB40&objecttype=14&gridview=view1

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