SIEMENS

Data sheet

3RT2024-2BB40-0CC0



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO + 1 NC, 24 V DC communication-capable, 3-pole Size S0, Spring-type terminal

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 	Yes
auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	1.5 W
 at AC in hot operating state per pole 	0.5 W
without load current share typical	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 %

lain circuit	3
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	600.1/
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	40 A
rated value	
• at AC-1	40.4
 up to 690 V at ambient temperature 40 °C rated value 	40 A
— up to 690 V at ambient temperature 60 °C	35 A
rated value	
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	12.5 A
• at AC-5a up to 690 V rated value	35.2 A
	9.9 A
at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	44.4.0
 up to 230 V for current peak value n=20 rated value 	11.4 A
— up to 400 V for current peak value n=20 rated	11.4 A
value	11.474
— up to 500 V for current peak value n=20 rated	11.3 A
value	
 up to 690 V for current peak value n=20 rated 	9 A
value	
at AC-6a	
— up to 230 V for current peak value n=30 rated	7.6 A
value	7.0 A
 up to 400 V for current peak value n=30 rated value 	7.6 A
— up to 500 V for current peak value n=30 rated	7.6 A
value	
— up to 690 V for current peak value n=30 rated	7.6 A
value	
minimum cross-section in main circuit at maximum AC-1	10 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	5 5 A
• at 400 V rated value	5.5 A
at 690 V rated value	5.5 A
operational current	
at 1 current path at DC-1 at 0.4 \(Virial	05.4
— 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 	

— 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	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles	
at AC-4	
 at 400 V rated value 	2.6 kW
at 690 V rated value	4.6 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	4.5 kVA
 up to 400 V for current peak value n=20 rated value 	7.8 kVA
 up to 500 V for current peak value n=20 rated value 	9.8 kVA
up to 690 V for current peak value n=20 rated value	10.7 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	3 kVA
 up to 400 V for current peak value n=30 rated value 	5.2 kVA
 up to 500 V for current peak value n=30 rated value 	6.5 kVA
• up to 690 V for current peak value n=30 rated value	9 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	162 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	103 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum	88 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	1 000 1/h
at AC-3 maximum	1 000 1/h

Act Act maximum 300 1/h	at AC-3e maximum	1 000 1/h
Control surply voltage at DC		
Spee of Voltage of the control supply voltage DC		500 IIII
Control supply voltage at DC		DC .
		DC .
Operation Current at AC-12 maximum 10 A Operational current at AC-15 operational cu		24.V
Value of magnet coll at DC Initial value I.1 I		_ 24 V
• full-scale value • at DC • spw • at DC • spening delay • at DC arcing time • full-control version of the switch operating mechanism Auxiliary circuit pumber of NC contacts for auxiliary contacts instantaneous contact runsher of NC contacts for auxiliary contacts instantaneous contact pumber of NC contacts for auxiliary contacts instantaneous contact pumber of NC contacts for auxiliary contacts instantaneous contact operational current at AC-15 • at 230 V rated value • at 380 V rated value • at 890 V rated value • at 80 V rated value		
Closing power of magnet coll at DC		0.8
Dotding power of magnet coll at DC	• 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
e at DC arcing time control version of the switch operating mechanism Auxiliary circuit mumber of NC contacts for auxiliary contacts instantaneous contact mumber of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact 1 00 A operational current at AC-12 maximum operational current at AC-18 at 230 V rated value at 400 V rated value 10 A operational current at DC-12 at 24 V rated value 10 A operational current at DC-12 at 24 V rated value 6 A at 80 V rated value 6 A at 810 V rated value 6 A at 810 V rated value 1 A operational current at DC-12 at 25 V rated value 1 A at 82 V rated value 2 A at 110 V rated value 1 A at 82 V rated value 1 A at 82 V rated value 2 A at 80 V rated value 1 A by 60 dod mechanical performance [hp] of or single-phase AC motor 1 A titol 10 V rated value 1 A at 80 V rated value 1 A at 80 V rated value 1 A by 80 dod mechanical performance [hp] of or single-phase AC motor 1 A titol 20 V rated value 1 A at 80	closing delay	
a arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum oporational current at AC-13 maximum oporational current at DC-12 at 230 V rated value at 590 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 125 V rated value at 126 V rated value at 127 V rated value at 128 V rated value at 128 V rated value at 129 V rated value at 129 V rated value at 120 V rated value	• at DC	50 170 ms
arcing time	opening delay	
Control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts 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 500 V rated value at 500 V rated value be at 48 V rated value at 48 V rated value be at 110 V rated value at 125 V rated value be at 220 V rated value be at 220 V rated value be at 220 V rated value contact reliability of auxiliary contacts at 48 V rated value be at 220 V rated value be at 220 V rated value contact reliability of auxiliary contacts be at 220 V rated value at 48 V rated value be at 48 V rated value be at 600 V rated value contact reliability of auxiliary contacts 10 A 20 A 21 Bull V rated value be at 220 V rated value at 230 V rated value at 250 V r	at DC	15 17.5 ms
Auxiliary circuit	arcing time	10 10 ms
number of NC contacts for auxiliary contacts instantaneous contact	control version of the switch operating mechanism	Standard A1 - A2, optionally via function module
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	Auxiliary circuit	
number of NO contacts for auxiliary contacts instantaneous contact 1 1 1 1 1 1 1 1 1		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 690 V rated value • at 690 V rated value • at 48 V rated value • at 110 V rated value • at 110 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 125 V rated value • at 125 V rated value • at 126 V rated value • at 125 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 200 V rated value • at 300 V rated value • at 480 V rated value • at 680 V rated value • at 480 V rated value • at 680 V rated value • at 7.5 hp • at 457600 V rated value • at 675600 V rated value		
Operational current at AC-12 maximum 10 A		1
Deprational current at AC-15		10.0
• at 230 V rated value • at 400 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 100 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 600 V rated value • a		10 A
	•	10 A
• at 690 V rated value		
Operational current at DC-12		
		I 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 2 A • at 48 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 3 A • at 125 V rated value 4 A • at 120 V rated value 5 A • at 120 V rated value 9 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 120 V rated value 1 A • at 600 V rated Value	•	10 Δ
• at 110 V rated value		
 at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A Operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 10 V rated value at 10 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 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 7 In A ULICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 7 In A yielded mechanical performance [hp] for single-phase AC motor at 11 A at 230 V rated value bfor 3-phase AC motor at 200/208 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value 10 hp 		
• at 220 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 700 V rated value • at 600 V rated value • at 600 V rated value • at 200 V rated value • at 200 V rated value • 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 • for 3-phase AC motor • at 200/208 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 • for 3-phase AC motor • at 200/208 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 • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor		
• at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 600 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 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 11 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 • for 3-phase AC motor — at 200/208 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 • for 3-phase AC motor — at 200/208 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 • for 3-phase AC motor — at 200/208 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 • 7.5 hp — at 575/600 V rated value 7.5 hp		
at 24 V rated value		
 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 70 V rated value at 11 A yielded mechanical performance [hp] for single-phase AC motor at 10/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value to hp 		0.1071
 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 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 11 A sided mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 110/120 V rated value at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value 7.5 hp at 575/600 V rated value 10 hp 	•	10 A
 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 480 V rated value at 600 V rated value at 600 V rated value at 11 A 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 at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value 10 hp 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at a 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 for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 200/230 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 bp 		
 at 125 V rated value at 220 V rated value 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 at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor at 10/120 V rated value pat 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 460/480 V rated value at 575/600 V rated value bp 		
■ at 220 V rated value ■ at 600 V rated value ■ 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings		
 at 600 V rated value 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 for single-phase AC motor at 11 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 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value 10 hp 		
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 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 10 hp	• at 600 V rated value	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 11 A • at 600 V rated value 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 2 hp • for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value — at 575/600 V rated value 10 hp	contact reliability of auxiliary contacts	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 11 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 10 hp		
 at 480 V rated value at 600 V rated value 11 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 10 hp 		
● at 600 V rated value yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 2 hp ● for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 11 A 11 A 11 A 12 A 13 A 15 A 16 A 17 A 18 A 18 A 19 A 19 A 10 A 10 A 10 A 11 A 12 A 13 A 15 A 16 A 17 A 18		11 A
 for single-phase AC motor — at 110/120 V rated value — at 230 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 — 10 hp 	• at 600 V rated value	
 for single-phase AC motor — at 110/120 V rated value — at 230 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 — 10 hp 	yielded mechanical performance [hp]	
 — 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 10 hp 	 for single-phase AC motor 	
● for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp	— at 110/120 V rated value	1 hp
— at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp	— at 230 V rated value	
— at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp	• for 3-phase AC motor	
— at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp	— at 200/208 V rated value	3 hp
— at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp	— at 220/230 V rated value	
— at 575/600 V rated value 10 hp	— at 460/480 V rated value	
contact rating of auxiliary contacts according to UL A600 / P600	— at 575/600 V rated value	10 hp
J	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: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
for short-circuit protection of the auxiliary switch	gG: 10 A (500 V, 1 kA)
required	
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
- side by side resounting	according to DIN EN 60715 Yes
side-by-side mounting height	102 mm
width	45 mm
depth	107 mm
required spacing	107 11111
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	0 (4 40 7)
— solid	2x (1 10 mm²)
— solid or stranded	2x (1 10 mm²)
finely stranded without core and processing	2x (1 6 mm²)
 finely stranded without core end processing at AWG cables for main contacts 	2x (1 6 mm²) 2x (18 8)
connectable conductor cross-section for main	2/ (10 0)
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	
	2x (0.5 2.5 mm²)
 — solid or stranded 	2x (0.0 2.0 mm)
— solid or stranded— finely stranded with core end processing	2x (0.5 1.5 mm²)

 at AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section	
 for main contacts 	18 8
 for auxiliary contacts 	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
B10 value with high demand rate according to SN 31920	450 000
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
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

General Product Approval





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates	
RCM	Type Examination Certificate	UK Declaration of Conformity	Special Test Certificate Type Test ates/Test	

Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Environmental Confirmations

Confirmation



Vibration and Shock

<u>Transport Information</u>

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=3RT2024-2BB40-0CC0

Cax online generator

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

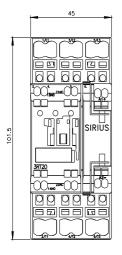
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2BB40-0CC0

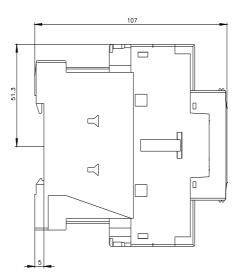
Characteristic: Tripping characteristics, I²t, Let-through current

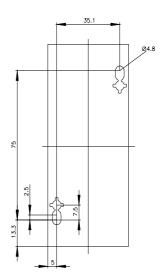
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2BB40-0CC0/char

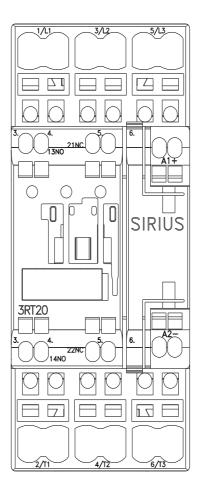
Further characteristics (e.g. electrical endurance, switching frequency)

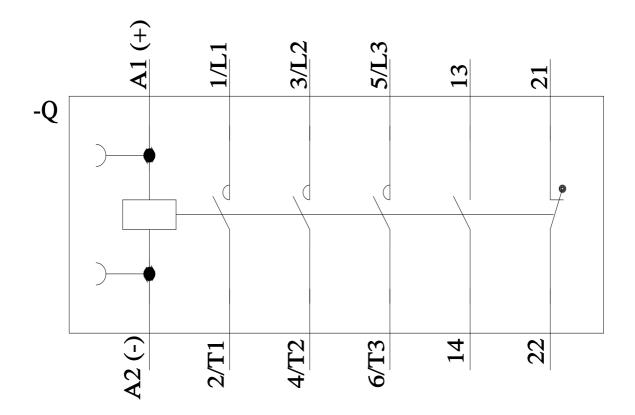
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-2BB40-0CC0&objecttype=14&gridview=view1











last modified: 2/15/2022 🖸