SIEMENS

Data sheet 3RT2024-2BF40



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO + 1 NC, 110 V DC 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 	No
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 %

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	40 A	
• at AC-1		
 up to 690 V at ambient temperature 40 °C rated value 	40 A	
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	35 A	
• 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	
at AC-5b up to 400 V rated value	9.9 A	
• at AC-6a	0.071	
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 value	11.4 A	
— up to 500 V for current peak value n=20 rated value	11.3 A	
— up to 690 V for current peak value n=20 rated value	9 A	
 at AC-6a up to 230 V for current peak value n=30 rated value 	7.6 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 value 	7.6 A	
— up to 690 V for current peak value n=30 rated value	7.6 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	5.5 A	
• at 690 V rated value	5.5 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 24 V rated value — at 110 V rated value	35 A	
— at 110 V rated value — 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	7.5 KW		
— 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 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 500 V for current peak value n=30 rated value 	9 kVA		
short-time withstand current in cold operating state up to 40 °C	O NVA		
Iimited to 1 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value		
Ilmitted to 1's switching at zero current maximum Ilmitted to 5 s switching at zero current maximum			
Ilmited to 5's switching at zero current maximum Ilmited to 10 s switching at zero current maximum	210 A; Use minimum cross-section acc. to AC-1 rated value		
_	162 A; Use minimum cross-section acc. to AC-1 rated value		
Ilmited to 30 s switching at zero current maximum Ilmited to 60 s switching at zero current maximum	103 A; Use minimum cross-section acc. to AC-1 rated value		
Iimited to 60 s switching at zero current maximum Parallel switching frequency Parallel s	88 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency	1.500.1/b		
• at DC	1 500 1/h		
operating frequency	4 000 4 %		
• at AC-1 maximum	1 000 1/h		
• at AC-2 maximum	1 000 1/h		
at AC-3 maximum	1 000 1/h		

* at AC-9 maximum 300 hith Control circuit Control Supply voltage 10 C control supply voltage at DC * rited voltage of the control supply voltage at DC * rited voltage col at DC * initial value 0	at AC-3e maximum	1 000 1/h
Section Circuit Control Sype of voltage of the control supply voltage at DC		
Type of Voltage of the control supply voltage DC		
Control supply voltage at DC		DC
- rated value 110 V		DO .
Operating angle factor control supply voltage rated value of magnet coil at DC		110 V
Value of magnet coll at DC		110 4
Closing power of magnet coll 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 auxilia		
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 10 A • at 10 A operational current at DC-12 • 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 20 V rated value • at 20 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value • at 120 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 120 V rated value • at 20 V rated value • at 480 V rated value • at 20 V rated value • at 480 V rated value • at 480 V rated value • at 200 V rated value • at 10 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 10 V rated value • at 10 V rated value • at 10 V rated value • at 200 V rat		
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 rated value * at 6500 V rated value * at 6500 V rated value * at 6600 V rated value * at 660 V rated value * at 660 V rated value * at 670 V rated value * at 680 V rated value * at 175 V rated value * at 185 V rated value * at 180 V rated value * at 600 V rated val		1
Operational current at AC-15		
	operational current at AC-12 maximum	10 A
	operational current at AC-15	
	• at 230 V rated value	
• 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 24 V rated value 11 A • at 250 V rated value 11 A • at 260 V rated value 10 A • at 48 V rated value 10 A • at 48 V rated value 10 A • at 48 V rated value 10 A • at 110 V rated value 11 A • at 125 V rated value 11 A • at 125 V rated value 11 A • at 120 V rated value 11 A • at 120 V rated value 11 A • at 120 V rated value 11 A • at 125 V rated value 11 A • at 125 V rated value 11 A • at 125 V rated value 11 A • at 200 V rated value 11 A • at 34 V rated value 11 A • at 34 V rated value 11 A • at 35 V rated value 11 A • at 200 V rated value 11 A • at 300 V rated value 11 A • at 300 V rated value 11 A • at 600 V rated value 11 A • at 600 V rated value 11 A • at 600 V rated value 11 A • at 230 V rated value 15 Appears AC motor 17 Appears AC motor 18 Appears AC motor 19 Appears AC moto		
operational current at DC-12		
		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 1 A at 600 V rated value 10 A at 48 V rated value at 24 V rated value 2 A 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 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) ULCSA 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 at 480 V rated value at 230 V rated value for single-phase AC motor at 230 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 460/480 V rated value at 460/480 V rated value 3 hp at 460/480 V rated value at 575/600 V rated value 10 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 at 34 V rated value at 60 V rated value at 60 V rated value at 10 A at 25 V rated value at 10 A at 10 V rated value at 10 A at 10 V rated value at 10 A at 10 V rated value at 10 V rated value at 20 V rated value at 20 V rated value at 200 V rated value at 30 V rated value at 400 V rated value at 480 V rated value at 200 V rated value at 460/480 V rated value at 575/600 V rated value bt p at 575/600 V rated value at 9 D at 200 V rated value at 575/600 V rated value bt p 		
 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 0.15 A Operational current at DC-13 at 24 V rated value at 20 V rated value at 10 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 600 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 7 A at 11 A at 600 V rated value at 11 A at 230 V rated value at 140 V rated value at 140 V rated value at 230 V rated value at 220/230 V rated value at 220/230 V rated value at 220/230 V rated value at 460/480 V rated value at 600 V rated value at 600 V rated value at 7.5 hp at 675/600 V rated value at 575/600 V rated value by p 		
 at 125 V rated value at 220 V rated value at 600 V rated value ontage of the state of		
at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 60 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 220 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 600 V rated value at 200 V rated value at 430 V rated value at 200 V rated value at 430 V rated value at 200 V rat		
■ 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 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 480 V rated value ■ at 480 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 700 V rated value ■ at 800 V rated value ■ at 800 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 200 V rated value ■ at 200/208 V rated value ■ at 575/600 V rated value 7.5 hp ■ at 575/600 V rated value 10 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 11 A at 600 V rated value 11 A yielded mechanical performance [hp] for single-phase AC motor at 130 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 200/208 V rated value at 460/480 V rated value at 575/600 V rated value 10 hp 		0.15 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 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 • for 3-phase AC motor • at 220/230 V rated value • for 3-phase AC motor • at 220/230 V rated value • at 460/480 V rated value • at 575/600 V rated value • 10 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 for single-phase AC motor at 11 A at 10/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value bp 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value ball ty switching per 100 million (17 V, 1 mA) ball 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 at 10/120 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 200/230 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 110/120 V rated value thp at 230 V rated value pfor 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 7.5 hp at 575/600 V rated value 10 hp 		
 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 110/120 V rated value hp 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 460/480 V rated value 7.5 hp at 575/600 V rated value 10 hp 		
 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 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 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 10 hp 		
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 • 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 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value 1 faulty switching per 100 million (17 V, 1 mA) 11 A 12 A 14 A 15 A 16 A 17 A 18 A 18 A 19 A 19 A 10 A 10 A 10 A 11 A		
Tull-load current (FLA) for 3-phase AC motor		
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 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 7.5 hp — 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 		
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 7.5 hp — at 575/600 V rated value 10 hp		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 460/480 V rated value at 575/600 V rated value for 3 - phase AC motor 3 hp 7.5 hp at 575/600 V rated value 10 hp 	• at 600 V rated value	11 A
 — 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 1 hp 2 hp 3 hp 7.5 hp 10 hp 	yielded mechanical performance [hp]	
— at 230 V rated value 2 hp ● for 3-phase AC motor — at 200/208 V rated value 3 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 7.5 hp — at 575/600 V rated value 10 hp	 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	2 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	 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 575/600 V rated value 10 hp	 at 220/230 V rated value 	3 hp
	 at 460/480 V rated value 	7.5 hp
contact rating of auxiliary contacts according to UL A600 / P600		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: 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
Cartificates/ approvals	

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 EG-Konf.	Special Test Certificate	Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Dangerous Good



Confirmation

Environmental Confirmations



<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=3RT2024-2BF40

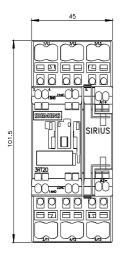
Cax online generator

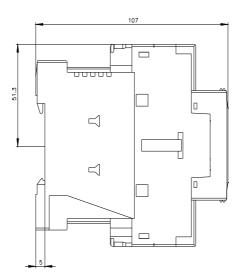
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2BF40

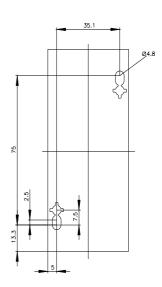
Characteristic: Tripping characteristics, I²t, Let-through current

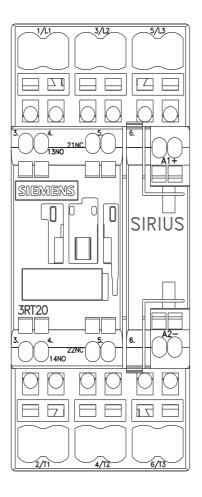
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2BF40/char

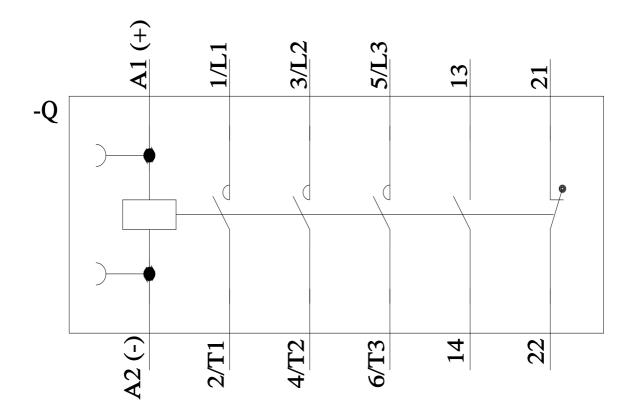
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-2BF40&objecttype=14&gridview=view1











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