SIEMENS

Data sheet 3RT2023-1AF00



power contactor, AC-3 9 A, 4 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz 3-pole, Size S0 screw 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	1.2 W
• per pole	0.4 W
power loss [W] for rated value of the current without load current share typical	7.6 W
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 acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,5g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,8g / 5 ms, 7,4g / 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
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

operational current	40.4
 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 $^{\circ}$ C rated value	35 A
• at AC-3	
— at 400 V rated value	9 A
— at 500 V rated value	9 A
— at 690 V rated value	9 A
 at AC-4 at 400 V rated value 	8.5 A
 at AC-5a up to 690 V rated value 	35.2 A
 at AC-5b up to 400 V rated value 	7.4 A
• at AC-6a	
 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 	9.1 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	9 A
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 	6.1 A
— up to 690 V for current peak value n=30 rated value	6.1 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²
operational current for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	4.1 A
at 690 V rated value	3.3 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value — at 600 V rated value	0.4 A 0.25 A
	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
operational current	
• 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	0.071
• at AC-3	
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	4 kW
— at 690 V rated value	7.5 kW
operating power for approx. 200000 operating cycles	7.0 KW
at AC-4	
at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	4.5 kV·A
 up to 400 V for current peak value n=20 rated value 	7.8 kV·A
 up to 500 V for current peak value n=20 rated value 	7.8 kV·A
 up to 690 V for current peak value n=20 rated value 	10.7 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	3 kV·A
 up to 400 V for current peak value n=30 rated value 	5.2 kV·A
 up to 500 V for current peak value n=30 rated value 	5.2 kV·A
 up to 690 V for current peak value n=30 rated value 	7.2 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	170 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	122 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	78 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	68 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 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
at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	110 V
operating range factor control supply voltage rated	
value of magnet coil at AC • at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	V.U 1.1
at 50 Hz	65 V·A
♥ at Juliz	00 V /\

apparent holding power of magnet coll at AC at 50 Hz closing detay at AC arcing time control version of the switch operating mechanism control version of	inductive power factor with closing power of the coil	
a st 50 Hz		0.82
Inductive power factor with the holding power of the coll a 150 Hz closing delay a 1 AC opening delay a 1 AC arcing time a 10 — 10 ms Standard A1 - A2 Auxiliary circuit Instantaneous contact for auxiliary contacts Instantaneous contact Instantaneous cont		
a 15 0 1/2 0.25 closing delay a 1 AC 8 40 ms opening delay a 1 AC 4 16 ms a a a C a 16 ms a a a C a 16 ms a a a a a a a a a		_ 7.6 V·A
■ at 50 Hz closing delay ■ at AC opening delay ■ at AC arcing time 10 10 ms control version of the switch operating mechanism Auxiliarry 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 1		
Accord Section Control of the switch operating mechanism 10		0.05
e at AC opening delay		0.25
opening delay		0 40
arcing time control version of the switch operating mechanism Auxiliary circuit instantaneous contact operational current at AC-12 maximum operational current at AC-18 at 230 V rated value		8 40 ms
arcing time		4 40
Control version of the switch operating mechanism Standard A1 - A2		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO 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-13 maximum operational current at AC-13 maximum at 400 V rated value at 400 V rated value at 400 V rated value at 600 V rated value at 80 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 100 V rated value at 100 V rated value at 100 V rated value at 220 V rated value at 48 V rated value at 48 V rated value at 220 V rated value at 48 V rated value at 58 OV rated value at 58 OV rated value at 58 OV rated value at 50 V rated value at 60 V rated valu		
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact poperational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 600 V rated value • at 600 V rated value • at 850 V rated value • at 850 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 80 V rated value • at 125 V rated value • at 125 V rated value • at 126 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 200 V rated value • at 200 V rated value • at 200 V rated value • at 80 V		Standard A1 - A2
instantaneous contact national current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 500 V rated value • at 600 V rated value • at 80 V rated value • 6 A • at 110 V rated value • at 80 V rated value • at 10 V rated value • at 10 V rated value • at 220 V rated value • at 220 V rated value • at 80 V rated value • at 110 V rated value • at 110 V rated value • at 10 V rated value • at 60 V		
instantaneous contact operational current at AC-15 maximum operational current at AC-15 • at 230 V rated value • at 4500 V rated value • at 6500 V rated value • at 125 V rated value • at 126 V rated value • at 120 V rated value • at 1200 V rated value •		1
a t 230 V rated value		1
at 230 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 100 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 48 V rated value at 60 V rated value at 48 V rated value at 60 V rat	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	• at 400 V rated value	3 A
Operational current at DC-12	• at 500 V rated value	2 A
	at 690 V rated value	1 A
	operational current at DC-12	
at 160 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 at 48 V rated value at 48 V rated value at 175 V rated value at 180 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 120 V rated value at 120 V rated value at 180 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 280 V rated value at 180 V rated value at 280 V rated value at 110/120 V rated value at 110/120 V rated value at 220/230 V rated value at 280 V rated value at 575/600 V rated value 3 hp at 460/480 V rated value 3 hp About 75 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link of or short-circuit protection of the main circuit	 at 24 V rated value 	10 A
at 110 V rated value at 125 V rated value at 200 V rated value at 800 V rated value at 800 V rated value operational current at DC-13 at 24 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 120 V rated value at 100 V rated value at 200 V rated value at 200 V rated value at 800 V rated value at 600 V rated value yelded mechanical performance [hp] • for single-phase AC motor —at 230 V rated value at 600 V rated value at 600 V rated value at 200/230 V rated value at 600/480 V rated value at 200/230 V rated value at 600/480 V rated value at 600/480 V rated value at 600/480 V rated value at 575/600 V rated value at 575/600 V rated value at 575/600 V rated value A600 / P600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	 at 48 V rated value 	6 A
	 at 60 V rated value 	6 A
	• at 110 V rated value	3 A
at 600 V rated value operational current at DC-13 at 48 V rated value at 46 V rated value at 60 V rated value at 10 V rated value at 22 V rated value at 600 V rated value at 48 V rated value at 600 V rated value be for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 220/230 V rated value at 260/38 V rated value at 260/480 V rated value at 460/480 V rated value at 575/600 V	at 125 V rated value	2 A
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 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 800 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 230 V rated value • at 230 V rated value • at 250 V rated value • at 250 V rated value • for 3-phase AC motor — at 200/208 V rated value • at 460/480 V rated value — at 450/480 V rated value — at 450/480 V rated value — at 575/600 V rated value — At 5	at 220 V rated value	1 A
	• at 600 V rated value	0.15 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 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 for single-phase AC motor at 110/120 V rated value at 110/120 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 200/230 V rated value at 200/230 V rated value at 200/300 V rated value at 55/5/600 V rated value 5 hp at 460/480 V rated value at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 	operational current at DC-13	
 at 60 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 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 110/120 V rated value at 110/120 V rated value for single-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 220/230 V rated value at 260/480 V rated value at 460/480 V rated value at 5 hp at 575/600 V rated value bhp at 575/600 V rated value A600 / P600 Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 	at 24 V rated value	10 A
 at 110 V rated value 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 for single-phase AC motor at 110/120 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 200/208 V rated value at 460/480 V rated value at 460/480 V rated value 5 hp at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 	● at 48 V rated value	2 A
at 125 V rated value at 220 V rated value 3.3 A at 600 V rated value 2.1 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 4 at 600 V rated value 5 A at 600 V rated value 9 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 1 hp - at 230 V rated value 1 hp for 3-phase AC motor - at 200/208 V rated value 2 hp - at 200/208 V rated value 3 hp - at 460/480 V rated value - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit	at 60 V rated value	2 A
at 125 V rated value at 220 V rated value 3.3 A at 600 V rated value 2.1 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 4 at 600 V rated value 5 A at 600 V rated value 9 A yielded mechanical performance [hp] for single-phase AC motor - at 110/120 V rated value 1 hp - at 230 V rated value 1 hp for 3-phase AC motor - at 200/208 V rated value 2 hp - at 200/208 V rated value 3 hp - at 460/480 V rated value - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit		1 A
 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 9 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 460/480 V rated value at 460/480 V rated value bp at 575/600 V rated value 5 hp at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 	at 125 V rated value	0.9 A
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 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 220/230 V rated value at 460/480 V rated value at 575/600 V rated value at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit		
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 9 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 1 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value Contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 9 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1 hp — at 230 V rated value 1 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value — at 575/600 V rated value 5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		
full-load current (FLA) for 3-phase AC motor		readily officially por 100 million (17 V, 1 mill)
at 480 V rated value 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 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 To hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit	-	
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 — 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 Contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit		7.6 A
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 1 hp • for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 1 hp for 3-phase AC motor — at 200/208 V rated value 2 hp — at 220/230 V rated value 3 hp — at 460/480 V rated value 5 hp — at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit 		
- at 110/120 V rated value - at 230 V rated value 1 hp • for 3-phase AC motor - at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		1 hp
for 3-phase AC motor — at 200/208 V rated value		·
- at 200/208 V rated value 2 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		· · · · ·
- at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	·	2 hp
- at 460/480 V rated value 5 hp - at 575/600 V rated value 7.5 hp contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		·
— at 575/600 V rated value 7.5 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		
contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit		
design of the fuse link • for short-circuit protection of the main circuit		7,000,1,000
for short-circuit protection of the main circuit		
	•	
— with type of coordination i required gg. 63A (690V, ToukA), aM: 32A (690V, ToukA), BS88: 63A (415V,80KA)		aC+62A (600\/ 100\A) aM+22A (600\/ 100\A) BC00, 62A (44E\/ 00\A)
	— with type of coordination 1 required	96. 03A (090V, 100KA), aivi. 32A (090V, 100KA), BS88: 03A (475V,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	
nstallation/ mounting/ dimensions	44000 4 11 11 11 11 11 11 11 11 11 11 11 11 1
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	97 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	Offini
type of electrical connection	a avair to the a target in a la
for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
• of magnet coil	Screw-type terminals
type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— solid or stranded	2x (1 2,5 mm²), 2x (2,5 10 mm²)
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
at AWG cables for main contacts	2x (16 12), 2x (14 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
 finely stranded with core end processing 	1 10 mm²
connectable conductor cross-section for auxiliary contacts	
 solid or stranded 	0.5 2.5 mm ²
 finely stranded with core end processing 	0.5 2.5 mm ²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
AWG number as coded connectable conductor cross section	(
• for main contacts	16 8
	20 14
for auxiliary contacts Safety related data	20 IT

Safety related data

product function mirror contact acc. to IEC 60947-4-1	Yes
B10 value with high demand rate acc. to SN 31920	450 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. 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















Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination
Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













Confirmation

other



Confirmation

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=3RT2023-1AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2023-1AF00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AF00

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

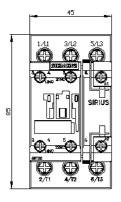
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2023-1AF00\&lang=en}}$

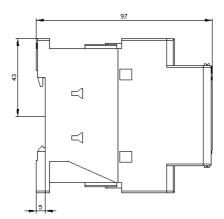
Characteristic: Tripping characteristics, I2t, Let-through current

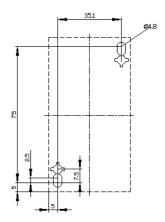
https://support.industry.siemens.com/cs/ww/en/ps/3RT2023-1AF00/char

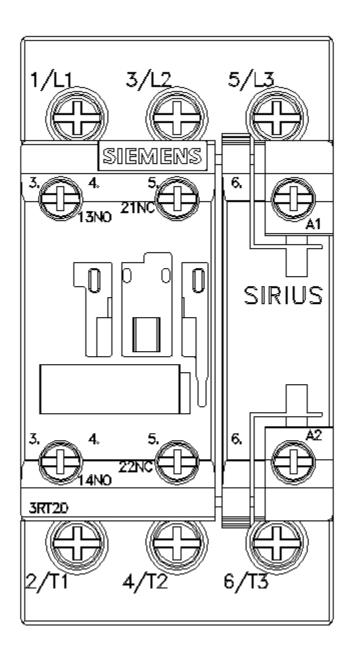
Further characteristics (e.g. electrical endurance, switching frequency)

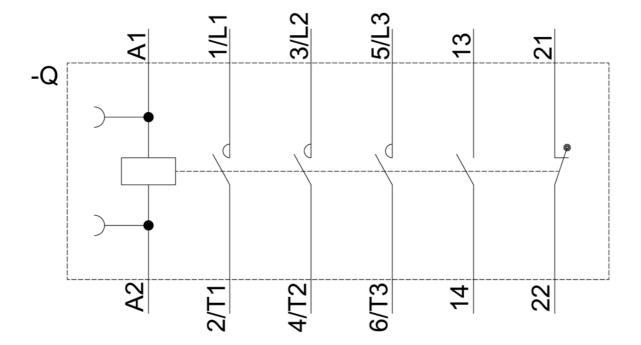
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2023-1AF00&objecttype=14&gridview=view1











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