SIEMENS

Data sheet 3RT2024-2CL24-3MA0



Power contactor, AC-3 12 A, 5.5 kW / 400 V 2 NO + 2 NC, 230 V AC 50 / 60 Hz, with inserted varistor 3-pole, Size S0 Spring type terminal Captive auxiliary switch

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	No
power loss [W] for rated value of the current at AC in hot operating state	1.5 W
• per pole	0.5 W
power loss [W] for rated value of the current without load current share typical	7.9 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
ambient temperature 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	40 A
rated value	
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-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	44.4.5
 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 at AC-6a 	9 A
■ at AC-ba — up to 230 V for current peak value n=30 rated	7.6 A
value — up to 400 V for current peak value n=30 rated — up to 400 V for current peak value n=30 rated	7.6 A
value — up to 500 V for current peak value n=30 rated — 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 — up to 690 V for current peak value n=30 rated	7.6 A
value	7.0 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	5.5 A
at 690 V rated value	5.5 A
operational current	
at 1 current path at DC-1	25.4
— at 24 V rated value	35 A
— at 110 V rated value	4.5 A
— at 220 V rated value — at 440 V rated value	1 A 0.4 A
— at 440 v rated value — at 600 V rated value	0.4 A 0.25 A
with 2 current paths in series at DC-1	0.20 /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	
at AC-2 at 400 V rated value	5.5 kW
• 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
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 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 	9.8 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 	6.5 kV·A
up to 690 V for current peak value n=30 rated value	9 kV·A
short-time withstand current in cold operating state up to 40 °C	
Iimited 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
Ilmited to 70 s switching at zero current maximum Ilmited 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	557, 550 minimum 5,550 500min 400. to 710 Trated value
• 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 	230 V
at 60 Hz rated value	230 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
● at 50 Hz	0.8 1.1

design of the surge suppressor	● at 60 Hz	0.85 1.1
apparent pick-up power of magnet coil at AC a 160 Hz 68 V/A 67 V/A of 80 Hz 67 V/A 67 V/A of 160 Hz 0.72 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.74 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75 0.75	design of the surge suppressor	with varistor
Inductive power factor with closing power of the coil		68 V·A
	● at 60 Hz	67 V·A
	inductive power factor with closing power of the coil	
apparent holding power of magnet coil at AC		0.72
** at 50 Hz	● at 60 Hz	0.74
eat 60 Hz inductive power factor with the holding power of the coil eat 50 Hz	apparent holding power of magnet coil at AC	
Inductive power factor with the holding power of the coll at 50 Hz	● at 50 Hz	7.9 V·A
at 50 Hz	• at 60 Hz	6.5 V·A
• at 50 Hz	inductive power factor with the holding power of the	
• at 60 Hz 0.28		
closing delay		
e at AC opening delay		0.28
at AC		
* at AC 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 operational current at AC-12 maximum 10 A 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 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 210 V rated value • at 110 V rated value • at 110 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 100 V rated value • a		9 38 ms
arcing time		
Control version of the switch operating mechanism Standard A1 - A2		
Auxillary circuit number of NC contacts for auxillary contacts 2		
number of NC contacts for auxiliary contacts instantaneous contact 2 1 1 1 1 1 1 1 1 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 800 V rated value • at 400 V rated value • at 600 V rated value • at 640 V rated value • at 640 V rated value • at 640 V rated value • at 110 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 • at 148 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 128 V rated value • at 129 V rated value • at 120 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 230 V rated value • at 230 V rated value • at 230 V rated value • for 3-phase AC motor • at 110 rated value • for 3-phase AC motor		
instantaneous contact operational current at AC-12 maximum		2
operational current at AC-15 • at 230 V rated value		2
	operational current at AC-12 maximum	10 A
at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 690 V rated value at 24 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 600 V rated value at 24 V rated value at 25 V rated value at 25 V rated value at 600 V rated value at 24 V rated value at 25 V rated value at 24 V rated value at 46 V rated value at 10 V rated value at 20 V rated value at 20 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 400 V rated value at 200 V rated value at 500 V rated value at 600 V r	operational current at AC-15	
• at 500 V rated value	at 230 V rated value	6 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 24 V rated value at 48 V rated value at 6 A at 60 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 ont 5 A Operational current at DC-13 at 24 V rated value 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 220 V rated value at 220 V rated value at 260 V rated value at 3 A at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 200 V rated value at 11 A at 200 V rated value at 200 V rated value	at 690 V rated value	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 at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 60 V rated value at 60 V rated value at 74 V rated value at 24 V rated value at 24 V rated value at 20 V rated value at 10 V rated value at 10 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 600 V rated value at 200 V	operational current at DC-12	
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 24 V rated value at 60 V rated value at 60 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 200 V rated value at 600 V rated value at 7 In A at 20 V rated value at 20 V rate	 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 at 24 V rated value at 6 A at 48 V rated value at 6 A at 10 V rated value at 10 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 7 aulty switching per 100 million (17 V, 1 mA) at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 11 A at 600 V rated value at 30 V rated value at 10/120 V rated value at 11 A at 230 V rated value at 24 D v rated value at 25 D v	 at 48 V rated value 	6 A
 at 125 V rated value 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 at 8 V rated value at 60 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 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 480 V rated value at 480 V rated value at 600 V rated value at 11 A at 600 V rated value at 11 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value full-oat 230 V rated value 	 at 60 V rated value 	6 A
• at 220 V rated value • at 600 V rated value 0.15 A operational current at DC-13 • at 24 V rated value 6 A • at 48 V rated value 2 A • at 60 V rated value 1 A • at 110 V rated value 2 A • at 110 V rated value 1 A • at 220 V rated value 0.9 A • at 220 V rated value 0.1 A contact reliability of auxiliary contacts full-load current (FLA) for 3-phase AC motor • at 480 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 30 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 • for 3-phase AC motor	 at 110 V rated value 	3 A
• 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 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 800 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 600 V rated value 11 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 • 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 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 125 V rated value • at 220 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 11 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor	 at 220 V rated value 	1 A
 at 24 V rated value 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 at 600 V rated value at 700 V rated value at 11 A sigle-phase AC motor at 110/120 V rated value at 20 V rated value <	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 600 V rated value at 600 V rated value at 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 at 600 V rated value at 7 A at 10 A at 230 V rated value at 1 A at 230 V rated value at 24 B at 25 A at 26 A at 10 A at 10 A at 11 A at 230 V rated value at 24 B at 24 B at 26 B at 27 B at 28 B at	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 600 V rated value at 600 V rated value at 600 V rated value at a factor of a	at 24 V rated value	
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 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 at 7 hp for 3-phase AC motor 		
 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 hp at 230 V rated value 2 hp for 3-phase AC motor 	• at 60 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 at 230 V rated value for 3-phase AC motor for 3-phase AC motor 		
 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 		
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 • for 3-phase AC motor		
UL/CSA ratings full-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 — at 230 V rated value • for 3-phase AC motor		1 faulty switching per 100 million (17 V, 1 mA)
 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 	UL/CSA ratings	
 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 		
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		
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor 		11 A
 — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor 		
— at 230 V rated value 2 hp ● for 3-phase AC motor		
• for 3-phase AC motor		·
		2 hp
— at 200/208 V rated value 3 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
contact rating of auxiliary contacts according to UL	A600 / Q600
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 according to DIN EN 60715
side-by-side mounting	Yes
height	102 mm
width	45 mm
depth	144 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	10 111111
·	10 mm
— forwards	10 mm
— upwards	10 mm
— downwards	10 mm
— at the side	6 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
 at contactor for auxiliary contacts 	Spring-type terminals
of magnet coil	Spring-type terminals
type of connectable conductor cross-sections	
 for main contacts 	
— solid	2x (1 10 mm²)
— solid or stranded	2x (1 10 mm²)
 finely stranded with core end processing 	2x (1 6 mm²)
— finely stranded without core end processing	2x (1 6 mm²)
at AWG cables for main contacts	2x (18 8)
connectable conductor cross-section for main contacts	
• solid	1 10 mm²
• stranded	1 10 mm²
finely stranded with core end processing	1 6 mm²
finely stranded without core end processing	1 6 mm ²
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
s intoly strained with core one processing	5.5 1.6 Hilli

 finely stranded without core end processing 	0.5 2.5 mm²
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid or stranded	2x (0.5 2.5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 14)
 AWG number as coded connectable conductor cross section for main contacts 	18 8
 AWG number as coded connectable conductor cross section for auxiliary contacts 	20 14
Safety related data	
B10 value with high demand rate acc. to SN 31920	1 000 000
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
product function	
 mirror contact acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5-1 	No
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
Certificates/ approvals	

General Product Approval









<u>KC</u>





Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test
Certificates/Test
Report







Marine / Shipping

other









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=3RT2024-2CL24-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-2CL24-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2CL24-3MA0

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

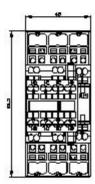
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-2CL24-3MA0&lang=en

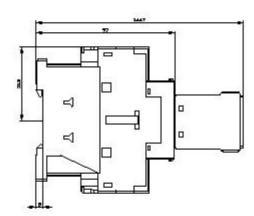
Characteristic: Tripping characteristics, I2t, Let-through current

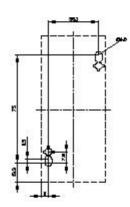
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2CL24-3MA0/char

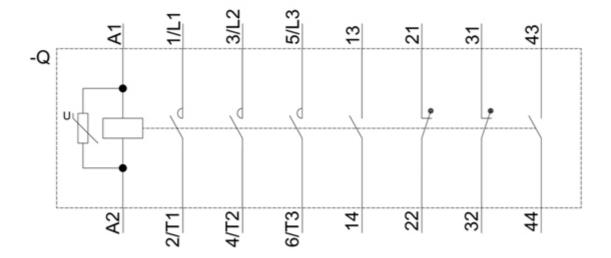
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-2CL24-3MA0&objecttype=14&gridview=view1









last modified: 12/21/2020 🖸