SIEMENS

Data sheet 3RT2024-2AP04



power contactor, AC-3 12 A, 5.5 kW / 400 V 2 NO + 2 NC, 230 V AC, 50 Hz 3-pole, Size S0 Spring-type terminal Removable 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 	0.9 W
 at AC in hot operating state per pole 	0.3 W
 without load current share typical 	7.6 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 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 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	1A
— 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
	1A
— at 440 V rated value — at 600 V rated value	1 A 0.8 A
	U.U 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 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

* all AG-3 emaximum 1000 1/h 2001 1/h 2	-1 10 0	4 000 4 //-
Control surpul Voltage of the control supply voltage ### AC ### AC ### AC Voltage of the control supply voltage ### AC ### AC Voltage of the control supply voltage rated value of magnet coil at AC #### AC Voltage of the Control supply voltage rated value of magnet coil at AC #### AC Voltage of the Control supply voltage rated value of magnet coil at AC #### AC Voltage of the Control supply voltage rated value of magnet coil at AC #### AC Voltage of the Control supply voltage rated value of magnet coil at AC #### AC Voltage of the Control supply voltage rated value of magnet coil at AC #### AC Voltage of the Control supply voltage rated value of magnet coil at AC #### AC Voltage of the Control supply voltage rated value of the Coil #### AC Voltage of the Control supply voltage rated value of the Coil #### AC Voltage of the Coil ###	• at AC-3e maximum	1 000 1/h
sype of voltage of the centrol supply voltage control supply voltage at AC		300 1/n
control supply voltage at AC • at 60 Hz rade value operating range factor control supply voltage rated value and the supply coll at AC • at 60 Hz apparent pick-up power of magnet coil at AC • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz coil • at 50 Hz coil • at 50 Hz coining delay • at AC arcing time a		
= at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	type of voltage of the control supply voltage	AC
Operating range factor control supply voltage rated value of magnet coil at AC	control supply voltage at AC	
value of magnet coil at AC a st 50 Hz sparent pick-up power of magnet coil at AC a st 50 Hz inductive power factor with closing power of the coil a st 50 Hz sparent holding power of magnet coil at AC a st 50 Hz ast 50 Hz ast 50 Hz closing delay at AC ast AC opening delay at AC opening delay at AC ast AC opening of the switch operating mechanism control version of the switch operating mechanism Auxiliary crieruit rumber of NC contexts for auxiliary contacts instantaneous contact operational current at AC-12 maximum in A de AC at 80 V rated value at 80 V rated value at 80 V rated value at 16 V rated value at 10 V rated value at 20 V	 at 50 Hz rated value 	230 V
■ at 20 Hz apparent pick-up power of magnet coil at AC ■ at 50 Hz inductive power factor with closing power of the coil ■ at 50 Hz 2 apparent holding power of magnet coil at AC ■ at 50 Hz Inductive power factor with the holding power of the coil ■ at 50 Hz Closing delay ■ at AC ■ at 50 Hz Closing delay ■ at AC ■ at 60 Hz ■ at AC arcing time ■ 10 10 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact unber of NO contacts for auxiliary contacts instantaneous contact at 2300 V rated value ■ at 2300 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 60 V rated value ■ at		
apparent pick-up power factor with closing power of the coil • alt 50 Hz 0.82 0.82 apparent holding power factor with the holding power of the coil • alt 50 Hz 0.82 7.6 VA inductive power factor with the holding power of the coil 0.82 0.25 closing delay 0.81 AC 0.25 0.25 closing delay • alt AC 0.83 0.84 0.80 0.80 • alt AC 0.84 0.85 0.85 0.85 0.85 • arcing time 10 10 ms 0.80 control version of the switch operating mechanism 10 10 ms standard A1 - A2 Auxillary certification 10 10 ms standard A1 - A2 Auxillary certification 10 10 ms standard A1 - A2 Auxillary certification 10 10 ms standard A1 - A2 Auxillary certification 10 10 ms standard A1 - A2 Auxillary certification 10 10 ms standard A1 - A2 Auxillary certification 2 standard A1 - A2 Auxillary certification 3 standard A1 - A2 Auxillary certific	value of magnet coil at AC	
ad 50 Hz	● at 50 Hz	0.8 1.1
Inductive power factor with closing power of the coil at 50 Hz at 50 Hz 7.6 VA 7.6 VA 1 at 50 Hz closing delay at AC at AC at AC at AC at AC at AC be at AC be at AC be at AC a	apparent pick-up power of magnet coil at AC	
■ at 50 Hz apparent holding power of magnet coil at AC ■ at 50 Hz out 150 Hz 0.25 closing delay ■ at AC ■ 8 40 ms opening delay ■ at AC arcing time ■ control version of the switch operating mechanism Auxiliary circuit Turnber of NC contacts for auxiliary contacts instantaneous contact unwher of NC contacts for auxiliary contacts instantaneous contact coperational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-13 • at 230 V rated value • at 60 V rated value • at 60 V rated value • at 61 V rated value • at 62 V rated value • at 61 V rated value • at 60 V rated value	● at 50 Hz	65 VA
apparent holding power of magnet coll at AC	inductive power factor with closing power of the coil	
at 50 Hz	● at 50 Hz	0.82
Inductive power factor with the holding power of the coll • at 50 Hz 0.25 • at AC	apparent holding power of magnet coil at AC	
oal 1 AC	● at 50 Hz	7.6 VA
oal 1 AC	inductive power factor with the holding power of the	
at AC		
e at AC opening delay	• at 50 Hz	0.25
e at AC 416 ms arcing time 1010 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 e at 230 V rated value e at 400 V rated value e at 600 V rated value e at 48 V rated value e at 48 V rated value e at 125 V rated value e at 125 V rated value e at 125 V rated value e at 127 V rated value e at 128 V rated value e at 129 V rated value e at 125 V rated value e at 125 V rated value e at 125 V rated value e at 200 V rated value e at 200 V rated value e at 125 V rated value e at 200 V rated value e at 220 V rated value e at 48 V rated value e at 215 V rated value e at 220 V rated value e at 320 V rated value e at 48 V rated value e at 220 V rated value e at 480 V rated value e at 220 V rated value e at 480 V rated value e at	closing delay	
aricing time	• at AC	8 40 ms
aricing time	opening delay	
arcing time		4 16 ms
Control version of the switch operating mechanism Standard A1 - A2		
Auxiliary circuit number of NC contacts for auxiliary contacts 2		Standard A1 - A2
number of NC contacts for auxiliary contacts		
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact 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 60 V rated value • at 60 V rated value • at 125 V rated value • at 220 V rated value • at 60 V rated value • at 80 V rated value • at 150 V rated value • at 60 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 140 V rated value • at 140 V rated value • at 140 V rated value • at 150 V rated value • at 150 V rated value • at 10 V rated value • at 20 V rated value • at 20 V rated value • at 30 V rated value • at 30 V rated value • at 10 V rated value • at 30 V rated value • at 20 V rated value • at 30 V rated value • 11 A		2
number of NO contacts for auxiliary contacts instantaneous contact 2		4
instantaneous contact		2
operational current at AC-15		
operational current at AC-15	operational current at AC-12 maximum	10 A
		6 A
• at 690 V rated value		
Operational current at DC-12		
• at 24 V rated value • at 48 V rated value • at 80 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 48 V rated value • at 60 V rated value • at 60 V rated value • at 100 V rated value • at 100 V rated value • at 100 V rated value • at 24 V rated value • at 100 V rated value • at 100 V rated value • at 100 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 200 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 600 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 600 V rated value • 11 A • at 600 V rated value • 11 A		170
 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 200 V rated value at 200 V rated value at 200 V rated value at 24 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 220 V rated value at 600 V rated value at 480 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 30 V rated value at 400 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 21 A at 480 V rated value at 400 V rated value at 100 V rated value at 400 V rated value at	•	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 operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 7 I I I A at 100 V rated value at 11 A yielded mechanical performance [hp] for single-phase AC motor at 11 A at 230 V rated value at 1 hp at 230 V rated value at 1 hp at 230 V rated value 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 8 V rated value at 6 A at 10 V rated value at 6 A 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 7 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 at 7 I A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp at 230 V rated value hp 		
 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 80 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 600 V rated value at 600 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 A at 10 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 at 200 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 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 300 V rated value at 300 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 at 11 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value hp 		
• at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 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 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		
operational current at DC-13	• at 220 V rated value	
 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 120 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 10 V rated value at 230 V rated value b for single-phase AC motor at 230 V rated value at 230 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 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 1 hp at 20 V rated value 1 hp at 230 V rated value 2 hp 	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 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 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 	• at 24 V rated value	6 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 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 	• at 48 V rated value	2 A
 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 1 hp at 230 V rated value 2 hp 	• at 60 V rated value	2 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 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 	• at 110 V rated value	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 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 	• 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 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 		
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 1 hp — at 230 V rated value 2 hp		
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 1 hp — at 230 V rated value 2 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 2 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		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 single-phase AC motor — at 110/120 V rated value — at 230 V rated value 2 hp 		11 A
 at 110/120 V rated value at 230 V rated value 2 hp 		
— at 230 V rated value 2 hp	 for single-phase AC motor 	
	 — at 110/120 V rated value 	1 hp
• for 3-phase AC motor	— 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
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 required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
	1/ 190° ratation possible on vertical mounting ourface; can be tilted
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	
— 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 3)
— 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
finely stranded without core end processing connectable conductor cross-section for auxiliary contacts	1 6 mm² 1 6 mm²
connectable conductor cross-section for auxiliary	
connectable conductor cross-section for auxiliary contacts	1 6 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
 for auxiliary contacts 	20 14
Safety related data	
product function	
 mirror contact according to IEC 60947-4-1 	Yes
 positively driven operation according to IEC 60947- 5-1 	No
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
T1 value for proof test interval or service life according to IEC 61508	20 y
protection class IP on the front according to IEC 60529	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	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of	Declaration of Conformity	Test Certificates
	Machinery		



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other

Confirmation



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=3RT2024-2AP04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-2AP04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2AP04

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2024-2AP04&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-2AP04/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-2AP04&objecttype=14&gridview=view1

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