SIEMENS

Data sheet 3RT2038-1AF00



Contactor, AC-3, 37 kW / 400 V, 1 NO + 1 NC, 110 V AC, 50 Hz, 3-pole, Size S2, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	\$2
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 	17.1 W
 at AC in hot operating state per pole 	5.7 W
 without load current share typical 	16 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 acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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)	01.10.2014
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 acc. to IEC 60068-2-30 maximum	95 %

lain 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	90 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	90 A
rated value	30 A
— up to 690 V at ambient temperature 60 °C	80 A
rated value	
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
• at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	79.2 A
 at AC-5b up to 400 V rated value 	66.4 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	70 A
— up to 400 V for current peak value n=20 rated value	70 A
— up to 500 V for current peak value n=20 rated	70 A
value	
 up to 690 V for current peak value n=20 rated value 	58 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	46.7 A
— up to 400 V for current peak value n=30 rated value	46.7 A
— up to 500 V for current peak value n=30 rated value	46.7 A
up to 690 V for current peak value n=30 rated value minimum cross-section in main circuit at maximum AC-1	46.7 A 35 mm ²
rated value	
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	30 A
at 690 V rated value	24 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	55 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	55 A
— at 110 V rated value	45 A
— at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 440 V rated value— at 600 V rated value	1 A 0.8 A

— at 24 V rated value	55 A	
— at 110 V rated value	55 A	
— at 220 V rated value	45 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	35 A	
— at 110 V rated value	2.5 A	
— at 220 V rated value	1 A	
— at 440 V rated value	0.1 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	55 A	
— at 110 V rated value	25 A	
— at 220 V rated value	5 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	55 A	
— at 110 V rated value	55 A	
— at 220 V rated value	25 A	
— at 440 V rated value	0.6 A	
— at 600 V rated value	0.35 A	
operating power	0.00 A	
	07 1344	
at AC-2 at 400 V rated value	37 kW	
• at AC-3	00.111	
— at 230 V rated value	22 kW	
— at 400 V rated value	37 kW	
— at 500 V rated value	37 kW	
— at 690 V rated value	45 kW	
• at AC-3e		
— at 230 V rated value	22 kW	
— at 400 V rated value	37 kW	
— at 500 V rated value	37 kW	
— at 690 V rated value	45 kW	
operating power for approx. 200000 operating cycles at AC-4		
• at 400 V rated value	15.8 kW	
• at 690 V rated value	21.8 kW	
operating apparent power at AC-6a		
• up to 230 V for current peak value n=20 rated value	27.8 kVA	
• up to 400 V for current peak value n=20 rated value	48.4 kVA	
• up to 500 V for current peak value n=20 rated value	60.6 kVA	
• up to 690 V for current peak value n=20 rated value	69.3 kVA	
operating apparent power at AC-6a	,	
• up to 230 V for current peak value n=30 rated value	18.6 kVA	
 up to 250 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 		
·	32.3 kVA	
• up to 500 V for current peak value n=30 rated value	40.4 kVA	
up to 690 V for current peak value n=30 rated value about time withstand surrent in cold energting state.	55.8 kVA	
short-time withstand current in cold operating state up to 40 °C		
 limited to 1 s switching at zero current maximum 	1 298 A; Use minimum cross-section acc. to AC-1 rated value	
limited to 1's switching at zero current maximum limited to 5 s switching at zero current maximum		
	898 A; Use minimum cross-section acc. to AC-1 rated value	
Ilimited to 10 s switching at zero current maximum Ilimited to 20 s switching at zero current maximum	640 A; Use minimum cross-section acc. to AC-1 rated value	
Iimited to 30 s switching at zero current maximum	414 A; Use minimum cross-section acc. to AC-1 rated value	
Iimited to 60 s switching at zero current maximum	333 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	700 1/h	
at AC-2 maximum	350 1/h	

* AI AG-3 maximum 500 th * AI AG-4 maximum 500 th * AI 50 Hz ratifed value	4400	T00 4#	
■ all AC-4 maximum Solition Control Control	• at AC-3 maximum	500 1/h	
Speed voltage of the control supply voltage AC		500 1/h	
ype of voltage of the control supply voltage control supply voltage at AC ■ 16 OF tz rated value operating range factor control supply voltage rated value of magnet coil at AC ■ 15 OF tz ■ 15 OF tz Inductive power factor with closing power of the coil ■ 15 OF tz Inductive power factor with closing power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with the holding power of the coil ■ 15 OF tz Inductive power factor with th		150 1/h	
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a 150 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC a 150 Hz apparent pick-up power of magnet coil at AC a 150 Hz apparent holding power of magnet coil at AC a 150 Hz apparent holding power of magnet coil at AC a 150 Hz apparent holding power of magnet coil at AC a 150 Hz apparent holding power of magnet coil at AC a 150 Hz at S0 Hz at AC operating delay al AC opening delay al AC opening delay al AC opening of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts perational current at AC-12 maximum operational current at AC-13 maximum operational current at AC-12 maximum operational current at AC-13 maximum operational current at AC-13 maximum operational current at AC-13 maximum operational current at AC-14 maximum operational current at AC-15 maximum operation	type of voltage of the control supply voltage	AC	
operation angle factor control supply voltage rated value of magnet coil at AC at 50 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 apparent holding power of magnet coil at AC 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 apparent holding power of magnet coil at AC 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 apparent holding power of the coil at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz and Coil at 50 Hz apparent holding power of the coil at 60 Hz and Coil at 60 Hz at	control supply voltage at AC		
value of magnet coil at AC	 at 50 Hz rated value 	110 V	
apparent pick-up power of magnet coil at AC • at 50 Hz Inductive power factor with closing power of the coil • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz Closing delay • at AC 1080 ms opening delay • at AC 1080 ms opening delay • at AC 1020 ms control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact In	_		
Inductive power factor with closing power of the coil		0.8 1.1	
Inductive power factor with closing power of the coil at 50 Hz at 50 Hz at 50 Hz closing delay at AC at AC opaning delay at AC control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contract number of NC contacts for auxiliary contacts instantaneous contract number of NC contacts for auxiliary contacts instantaneous contract number of NC contacts for auxiliary contacts instantaneous contract number of NC contacts for auxiliary contacts instantaneous contract number of NC contacts for auxiliary contacts instantaneous contract number of NC contacts for auxiliary contacts instantaneous contract number of NC ortacted value at 400 V rated value at 400 V rated value at 400 V rated value at 560 V rated value at 48 V rated value at 48 V rated value at 2A at 100 V rated value at 2A at 100 V rated value at 2A at 24 V rated value at 2A at 27 V rated value at 28 V rated value at 29 V rated value at 20	apparent pick-up power of magnet coil at AC		
apparent holding power of magnet coil at AC at 50 Hz inductive power factor with the holding power of the coil at 50 Hz coising delay at AC tolosing delay tolosing delay at AC tolosing delay at AC tolosing delay tolosin	● at 50 Hz	190 VA	
apparent holding power of magnet coil at AC at 50 Hz closing delay beta AC opening delay at AC tolumber of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 300 V rated value at 600 V rated value at 600 V rated value at 610 V rated value	inductive power factor with closing power of the coil		
at 50 Hz	● at 50 Hz	0.72	
inductive power factor with the holding power of the coll at 50 Hz closing delay at AC 10 80 ms opening delay at AC 11 80 ms opening delay at AC 10 18 ms arcing time control version of the switch operating mechanism Auxillary deroult number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact instantaneous contact 10 20 ms standard A1 - A2 Auxillary deroult number of NC contacts for auxiliary contacts instantaneous contact 10 A operational current at AC-12 maximum 10 A operational current at AC-15 at 230 V rated value 3 A at 500 V rated value 3 A at 600 V rated value 1 A 0 A at 480 V rated value 6 A at 60 V rated value 6 A at 60 V rated value 6 A at 60 V rated value 1 A at 60 V rat	apparent holding power of magnet coil at AC		
at 50 Hz	● at 50 Hz	16 VA	
● at 50 Hz closing delay ● at AC opening delay ● at AC at AC opening delay ● at AC at AC opening delay ● at AC at AC 10 18 ms arcing time control version of the switch operating mechanism Auxiliary circuit unwher of NC contacts for auxiliary contacts instantaneous contact Instantaneous contact operational current at AC-12 maximum operational current at AC-15 ● at 230 V rated value ● at 4500 V rated value ● at 650 V rated value ● at 4500 V rated value ● at 48 V rated value ● at 48 V rated value ● at 48 V rated value ● at 100 V rated value ● at 450 V rated value ● at 150 V rated value ● at 150 V rated value • at 100 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated	•		
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arcing time			
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Auxiliary circuit number of NC contacts for auxiliary contacts 1			
number of NC contacts for auxiliary contacts instantaneous contact 1		Standard A1 - A2	
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 440 V rated value • at 440 V rated value • at 440 V rated value • at 4500 V rated value • at 4500 V rated value • at 640 V rated value • at 640 V rated value • at 640 V rated value • at 650 V rated value • at	Auxiliary circuit		
instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • 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 800 V rated value • at 48 V rated value • at 80 V rated value • at 80 V rated value • at 80 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 800 V rated value • at 120 V rated value • at 120 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 1250 V rated value • at 800 V rated value • at 800 V rated value • at 600		1	
operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 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 1220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 600 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 480 V rated value • at 600 V rated value • 500 V rated value • 500 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A		1	
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	operational current at AC-15		
• at 500 V rated value • at 690 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 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 600 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 220 V rated value • at 220 V rated value • at 200 V rated value • at 480 V rated value • at 600 V rated value • 5 A • at 600 V rated value • at 700 V rated value • at 700 V rated value • 5 A • at 600 V rated value • 5 bp	at 230 V rated value	10 A	
• at 690 V rated value operational current at DC-12 • 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 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 600 V rated value • at 24 V rated value • at 600 V rated value • at 600 V rated value • at 24 V rated value • at 10 V rated value • at 100 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 480 V rated value • at 600 V rated value • 5 pp	at 400 V rated value	3 A	
operational current at DC-12 at 24 V rated value 10 A at 48 V rated value 6 A at 48 V rated value 6 A at 110 V rated value 3 A at 125 V rated value 2 A at 220 V rated value 1 A at 600 V rated value 0.15 A operational current at DC-13 10 A at 24 V rated value 2 A at 48 V rated value 2 A at 60 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 0.3 A at 220 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 65 A at 480 V rated value 65 A at 480 V rated value 62 A yielded mechanical performance [hp] 6 or single-phase AC motor — at 110/120 V rated value 5 hp	at 500 V rated value	2 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 600 V rated value at 600 V rated value 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 7 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 400 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 7 ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 65 A at 600 V rated value for single-phase AC motor at 600 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value 5 hp 	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 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 125 V rated value at 220 V rated value at 600 V rated value at 7 b b 	operational current at DC-12		
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 at 110 V rated value 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 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 200 V rated value at 600 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 7 Explosion of 100 million (17 V, 1 mA) 	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 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 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 110/120 V rated value 5 hp 	at 60 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 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 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 110/120 V rated value 5 hp 			
• 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 220 V rated value • at 220 V rated value • at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 600 V rated value • 65 A • at 100 V rated value • 65 A • at 100 V rated value • 65 A • at 100 V rated value • 5 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 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 • 5 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 220 V rated value at 600 V rated value ontact 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 5 hp 			
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 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 at 220 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 110/120 V rated value 5 hp 			
 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 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 af of single-phase AC motor af 110/120 V rated value 5 hp 			
 at 125 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 for single-phase AC motor at 110/120 V rated value 5 hp 			
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 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 5 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 for single-phase AC motor — at 110/120 V rated value 5 hp			
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 65 A • at 600 V rated value 62 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp			
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 • 5 hp		- Taking Switching per 100 million (17 V, 1 miz)	
 at 480 V rated value at 600 V rated value 65 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp 	· ·		
● at 600 V rated value yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value 5 hp		CF A	
yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value 5 hp			
 ◆ for single-phase AC motor — at 110/120 V rated value 5 hp 		02 A	
— at 110/120 V rated value 5 hp			
·			
— at 230 V rated value 15 hp			
	— at 230 V rated value	15 hp	

 for 3-phase AC motor 		
 — at 200/208 V rated value 	20 hp	
 at 220/230 V rated value 	25 hp	
 at 460/480 V rated value 	50 hp	
— at 575/600 V rated value	60 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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A	
71	(415 V, 80 kA)	
— with type of assignment 2 required	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)	
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)	
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	114 mm	
width	55 mm	
depth	130 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	screw-type terminals	
for auxiliary and control circuit	screw-type terminals	
at contactor for auxiliary contacts		
of magnet coil	Screw-type terminals	
type of connectable conductor cross-sections	Screw-type terminals	
for main contacts		
	2v (1 25 mm²) 1v (1 F0 mm²)	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)	
 finely stranded with core end processing at AWG cables for main contacts 	2x (1 25 mm²), 1x (1 35 mm²)	
	2x (18 2), 1x (18 1)	
connectable conductor cross-section for main contacts	4 05 2	
finely stranded with core end processing	1 35 mm²	
connectable conductor cross-section for auxiliary		
contacts	0.5 2.5 mm²	
solid or stranded finally attracted with core and processing.	0.5 2.5 mm ²	
• finely stranded with core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
for auxiliary contacts	Ov. (0.5	
— 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 	18 1	
 for auxiliary contacts 	20 14	
Safety related data		
product function		
 mirror contact acc. to IEC 60947-4-1 	Yes	
 positively driven operation acc. to IEC 60947-5-1 	No	
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	
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		

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



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



Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation

Confirmation

Vibration and Shock

Transport Information

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=3RT2038-1AF00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-1AF00

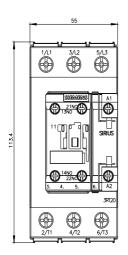
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

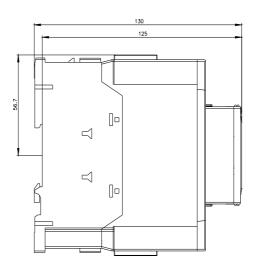
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AF00

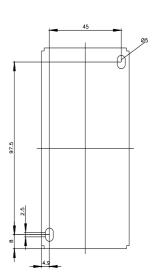
Characteristic: Tripping characteristics, I²t, Let-through current

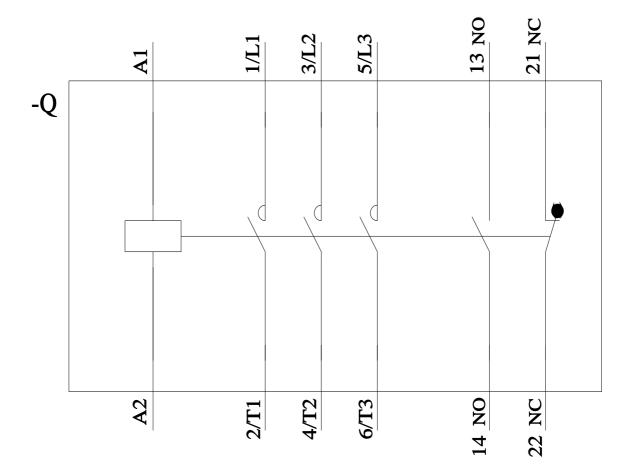
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1AF00/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-1AF00&objecttype=14&gridview=view1









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