SIEMENS

Data sheet 3RT2038-1KB44



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 24 V DC, 0.8-1.2* Us, with integrated varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, suitable for PLC outputs, removable auxiliary switch

product brand name	SIRIUS
product designation	Coupling contactor
product type designation	3RT2
General technical data	
size of contactor	S2
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 	17.1 W
 at AC in hot operating state per pole 	5.7 W
without load current share typical	1 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 protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at DC	6.1g / 5 ms, 3.7g / 10 ms
shock resistance with sine pulse	
• at DC	9.6g / 5 ms, 5.8g / 10 ms
mechanical service life (operating 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)	10/01/2014
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 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 	90 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated	90 A
value	00 A
 up to 690 V at ambient temperature 60 °C rated value 	80 A
• 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	0071
— at 400 V rated value	80 A
— at 500 V rated value	80 A
	58 A
— at 690 V rated value	
at AC-4 at 400 V rated value at AC-5 aug to 600 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 value	70 A
 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 	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 mm²
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 60 V rated value	23 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 60 V rated value	45 A
— at 110 V rated value	45 A
— at 110 v rated value — at 220 V rated value	5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1 at 24 V sets d valve.	EF A
— at 24 V rated value	55 A
— at 60 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
With 2 current paths in series at DC-3 at DC-5	— at 220 V rated value	
- with 2 current paths in series at DC-3 at DC-5 - at 16 V Y rated value 45 A - at 160 V rated value 55 A - at 160 V rated value 57 A - at 160 V rated value 57 A - at 160 V rated value 58 A - at 1220 V rated value 58 A - at 160 V rated value 58 A - at 170 V rated value 59 A - at 170 V rated value 50 A - at 17	— 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 220 V rated value at 440 V rated value at 460 V rated value at 400 V rated value at 55 A at 20 V rated value 55 A at 20 V rated value 55 A at 10 V rated value 25 A at 400 V rated value 25 A at 230 V rated value 25 A at 230 V rated value 25 A at 230 V rated value 27 KW at 400 V rated value 27 KW at 500 V rated value 27 KW at 500 V rated value 27 KW at 500 V rated value 27 KW at 230 V rated value 27 KW at 230 V rated value 27 KW at 230 V rated value 27 KW at 250 V rated value 27 KW at 250 V rated value 27 KW at 500 V rated value 27 KW at 500 V rated value 27 KW at 500 V rated value 27 KW at 690 V rated value 28 KW at 690 V rated value 29 rated value 20 Ra	— at 60 V rated value	45 A
	— at 110 V rated value	25 A
	— at 220 V rated value	5 A
with 3 current paths in series at DC-3 at DC-5 — at 240 V rated value — at 10 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 200 V rated value ■ at AC-2 at 400 V rated value ■ at AC-2 at 400 V rated value ■ at 400 V rated value — at 230 V rated value — at 230 V rated value — at 900 V rated value — at 200 V rated value — at 900 V rated value — 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 220 V rated value	— at 60 V rated value	55 A
	— at 110 V rated value	55 A
A	— at 220 V rated value	25 A
at AC-2 at 400 V rated value	— at 440 V rated value	0.6 A
operating power		
• at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value • at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 10 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limite		
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at 230 V rated value		
- at 400 V rated value		22 kW
- at 500 V rated value		
- at 890 V rated value • at AC-3e - at 230 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 690 V rated value - at 400 V rated value - at 400 V rated value • at 400 V rated value • at 690 V rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • timited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum •		
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• at 400 V rated value • at 690 V rated value • at 690 V rated value operating apparent power at AC-6a • up to 230 V for current peak value n=20 rated value • up to 600 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • up to 590 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 700 1/h • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum 500 1/h		
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum shifted to 60 s switching at zero current maximum limited to		27.8 κ\/Δ
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operating apparent power at AC-6a • up to 230 V for current peak value n=30 rated value • up to 400 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero curr		
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up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value vup to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ro-load switching frequency at DC 1 500 1/h operating frequency at AC-1 maximum 700 1/h at AC-2 maximum at AC-3 maximum output to 500 V for current peak value n=30 rated value 1 298 A; Use minimum cross-section acc. to AC-1 rated value 640 A; Use minimum cross-section acc. to AC-1 rated value 1 414 A; Use minimum cross-section acc. to AC-1 rated value 1 500 1/h 500 1/h 500 1/h		10 G IAVA
up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current ma		
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short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum olimited to 60 s switching frequency • at DC 1 500 1/h • at AC-1 maximum 700 1/h • at AC-2 maximum • at AC-3 maximum 500 1/h		
• limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 1 298 A; Use minimum cross-section acc. to AC-1 rated value 640 A; Use minimum cross-section acc. to AC-1 rated value 1 333 A; Use minimum cross-section acc. to AC-1 rated value 1 500 1/h 1 500 1/h • at AC-2 maximum • at AC-3 maximum 500 1/h		55.8 kVA
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited 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 DC 1 500 1/h operating frequency at AC-2 maximum at AC-3 maximum 500 1/h 500 1/h 		
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 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at DC 1 500 1/h operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum 414 A; Use minimum cross-section acc. to AC-1 rated value 1 500 1/h 700 1/h 350 1/h 500 1/h 	-	
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no-load switching frequency	-	
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 at AC-1 maximum at AC-2 maximum at AC-3 maximum 500 1/h 		1 500 1/h
 at AC-2 maximum at AC-3 maximum 500 1/h 		
• at AC-3 maximum 500 1/h		
1400	• at AC-3 maximum	500 1/h
• at AC-3e maximum 500 1/h	• at AC-3e maximum	500 1/h
• at AC-4 maximum 150 1/h		150 1/h
Control circuit/ Control	Control circuit/ Control	

Vigilar of vindings of the Control supply voltage at DC	type of voltage of the control cumply voltage	DC
entitol value 24 V 25 V	type of voltage of the control supply voltage	DC
		24 V
e full scale value 1.2 design of the surge suppressor with variator invash current peak 2.6 A duration of inrush current peak 2.1 A locked-roter current mean value 2.0 ms locked-roter current peak 2.1 A duration of locked-roter current 2.0 ms holding current mean value 4.0 mA closing power of magnet coil at DC 1.5 W holding power of magnet coil at DC 1.0 W closing power of magnet coil at DC 3.5 80 ms • at DC 3 55 ms variator 4 10 ms contact 1 20 ms contact 1 10 ms contact 1 10 ms a to DC Vated value 6.A<	operating range factor control supply voltage rated value of	24 V
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Invusto current peak 26 A	• full-scale value	1.2
Invusto current peak 26 A	design of the surge suppressor	with varistor
duration of Innuish current peak 50 µ S locked-rotor current peak 21 Å duration of locked-rotor current 230 ms holding current mean value 40 mÅ closing power of magnet coil at DC 1 W holding power of magnet coil at DC 1 W opening delay 35 80 ms a at DC 30 55 ms control version of the switch operating mechanism Standard A1 - A2 wattiliary feature 2 number of NC contacts for auxiliary contacts instantaneous contact 2 number of NC contacts for auxiliary contacts instantaneous contact 2 number of NC contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A a t 300 V rated value 6 A a t 300 V rated value 10 A a t 3		
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Moding current mean value 40 mA 10 mA		
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Anothing power of magnet coil at DC 10 10 10 10 10 10 10 1		
closing delay		
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A I D C 30 55 ms 30 55		35 80 ms
		00 00 III0
arcing time 10 20 ms Standard A1 - A2		30 55 ms
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number of NC contacts for auxiliary contacts instantaneous contact 2 number of NO contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-15 • at 230 V rated value 6 A • at 3600 V rated value 3 A • at 500 V rated value 1 A • at 500 V rated value 1 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 3 A • at 60 V rated value 3 A • at 110 V rated value 3 A • at 1220 V rated value 2 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 24 V rated value 2 A • at 48 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 31 10 V rated value 2 A • at 120 V rated value 3 A • at 25 V rated value 0.9 A • at 25 V rated value 0.9 A • at 320 V rated value		Stanuaru AT - AZ
contact contact number of NO contacts for auxiliary contacts instantaneous contact 2 operational current at AC-12 maximum 10 A Operational current at AC-15 • at 230 V rated value • at 230 V rated value 3 A • at 3600 V rated value 1 A • at 800 V rated value 1 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 150 V rated value 3 A • at 1220 V rated value 3 A • at 1220 V rated value 1 A • at 1220 V rated value 1 A • at 220 V rated value 6 A • at 220 V rated value 6 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 60 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 0.9 A • at 125 V rated value 0.3 A • at 125 V rated value 0.1 A • at 48 V rated value 0.1 A • at 300 V rated value		2
contact operational current at AC-12 maximum 10 A operational current at AC-15 Image: Contact of the c		2
Name		2
• at 230 V rated value	operational current at AC-12 maximum	10 A
	operational current at AC-15	
	at 230 V rated value	6 A
• at 690 V rated value	at 400 V rated value	3 A
Name	at 500 V rated value	2 A
at 24 V rated value	at 690 V rated value	1 A
at 48 V rated value at 10 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 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 125 V rated value at 125 V rated value at 120 V rated value at 220 V rated value at 600 V rated value at 80 V rated value at 80 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 300 V rated value at 300 V rated value at 480 V rated value at 300 V rated value at 300 V rated value at 500 V rated value at 300 V rated value at 600 V rated value	operational current at DC-12	
at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 200 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 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 110 V rated value at 125 V rated value at 125 V rated value at 120 V rated value at 110 V rated value at 110 V rated value at 120 V rated value at 160 V rated value at 220 V rated value	at 24 V rated value	10 A
	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 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 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 220 V rated value • at 230 V rated value • at 230 V rated value • at 300 V rated value • at 200/208 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp	at 125 V rated value	2 A
• at 600 V rated value operational current at DC-13 • 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 125 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 220 V rated value • at 230 V rated value • at 230 V rated value • at 300 V rated value • at 200/208 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp • at 230 V rated value • 65 A Shp • at 230 V rated value • 5 hp	at 220 V rated value	1 A
operational current at DC-13		
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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 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 110/120 V rated value at 110/120 V rated value at 230 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 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 1 faulty switching per 100 million (17 V, 1 mA) 3 JL/CSA ratings at 480 V rated value at 480 V rated value at 600 V rated value at 7 James AC motor at 110/120 V rated value at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value at 230 V rated value at 230 V rated value at 2400/208 V rated value 20 hp 		
 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) JU/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 65 A at 600 V rated value for single-phase AC motor at 110/120 V rated value 5 hp at 230 V rated value for 3-phase AC motor at 200/208 V rated value 20 hp 		
 at 220 V rated value at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) JU/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 62 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 5 hp at 230 V rated value for 3-phase AC motor at 200/208 V rated value 20 hp 		
• at 600 V rated value		
contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) JL/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 20 hp		
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• 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 20 hp		65 A
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 5 hp — at 230 V rated value 15 hp • for 3-phase AC motor — at 200/208 V rated value 20 hp		
 for single-phase AC motor — at 110/120 V rated value 5 hp — at 230 V rated value 15 hp for 3-phase AC motor — at 200/208 V rated value 20 hp 		02 A
 — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 20 hp 		
 — at 230 V rated value ● for 3-phase AC motor — at 200/208 V rated value 20 hp 	- 1	F.h.
for 3-phase AC motor — at 200/208 V rated value 20 hp		
— at 200/208 V rated value 20 hp		15 np
	•	
— at 220/230 V rated value 25 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 / Q600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	-0. 050 A (000 V 400 VA) -N. 400 A (000 V 400 V)
— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (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 DIN rail according to DIN EN 60715
• side-by-side mounting	Yes
height	114 mm
width	55 mm
depth required spacing	174 mm
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	Screw-type terminals
• of magnet coil	Screw-type terminals
type of connectable conductor cross-sections for main contacts	2v /1 25 mm²) 1v /1 50 mm²\
solid or stranded finely stranded with core and processing	2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²) 1x (1 35 mm²)
• finely stranded with core end processing connectable conductor cross-section for main contacts	2x (1 25 mm²), 1x (1 35 mm²)
finely stranded with core end processing	1 35 mm²
connectable conductor cross-section for auxiliary contacts	55
solid or stranded	0.5 2.5 mm²
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)
for 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 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	1 000 000
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 a
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching OFF 	Yes
Cartificates/ approvals	

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other

Railway

Environment



Confirmation

Vibration and Shock

Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT2038-1KB44

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-1KB44

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1KB44

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

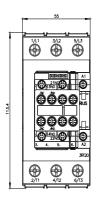
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-1KB44&lang=en

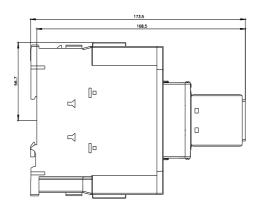
Characteristic: Tripping characteristics, I2t, Let-through current

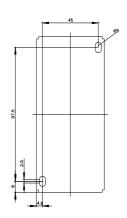
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-1KB44/char

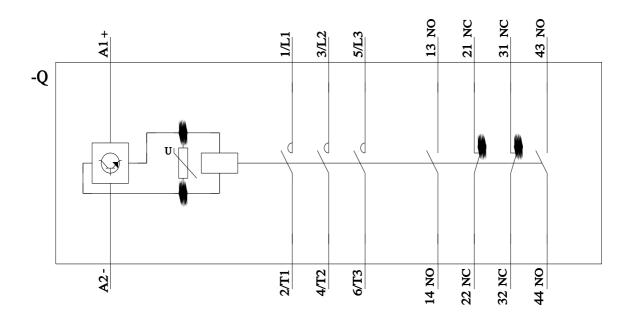
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2038-1KB44\&objecttype=14\&gridview=view1}$









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