3RT2038-3AK64-3MA0

Data sheet



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, auxiliary contacts: 2 NO + 2 NC, main circuit: screw terminal, control and auxiliary circuit: spring-loaded terminal, size: S2, captive auxiliary switch

product brand name	SIRIUS
product designation	Power 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	6.5 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 AC	9.8g / 5 ms, 6.5g / 10 ms
shock resistance with sine pulse	
• at AC	15.3g / 5 ms, 10.1g / 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	00.4		
 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			
— 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 mm ²		
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 220 V rated value	5 A		
— at 440 V rated value	1 A		
— at 440 V rated value — at 600 V rated value	0.8 A		
	0.0 A		
with 3 current paths in series at DC-1 at 24 V rated value.	EE 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 			

1041/	05.4			
— at 24 V rated value	35 A			
— at 60 V rated value	6 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 60 V rated value	45 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 60 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				
at AC-2 at 400 V rated value	37 kW			
• at AC-3				
— 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			
	40 KVV			
• at AC-3e	22 144			
— 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-				
at 400 V rated value	15.8 kW			
at 490 V rated value at 690 V rated value	21.8 kW			
operating apparent power at AC-6a	21.0 KW			
• up to 230 V for current peak value n=20 rated value	27.8 kVA			
	48.4 kVA			
up to 400 V for current peak value n=20 rated value				
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	40.0 13/4			
• up to 230 V for current peak value n=30 rated value	18.6 kVA			
• 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	55.8 kVA			
short-time withstand current in cold operating state up to 40 °C				
	1.200 At Hoo minimum group coation and to A.C. 4 rated unlike			
Iimited to 1 s switching at zero current maximum	1 298 A; Use minimum cross-section acc. to AC-1 rated value			
Ilimited to 5 s switching at zero current maximum	898 A; Use minimum cross-section acc. to AC-1 rated value			
Iimited to 10 s switching at zero current maximum	640 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	414 A; Use minimum cross-section acc. to AC-1 rated value			
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 AC	5 000 1/h			
operating frequency				
	700.44			
• at AC-1 maximum	700 1/h			
at AC-1 maximumat AC-2 maximum	700 1/h 350 1/h			
• at AC-2 maximum	350 1/h			
at AC-2 maximumat AC-3 maximum	350 1/h 500 1/h			
at AC-2 maximumat AC-3 maximumat AC-3e maximum	350 1/h 500 1/h 500 1/h			

type of voltage of the control supply voltage	AC		
control supply voltage at AC			
• at 50 Hz rated value	110 V		
at 60 Hz rated value	120 V		
operating range factor control supply voltage rated value of magnet coil at AC			
● at 50 Hz	0.8 1.1		
• at 60 Hz	0.8 1.1		
apparent pick-up power of magnet coil at AC			
• at 50 Hz	212 VA		
● at 60 Hz	188 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.69		
• at 60 Hz	0.65		
apparent holding power of magnet coil at AC			
• at 50 Hz	18.5 VA		
• at 60 Hz	16.5 VA		
inductive power factor with the holding power of the coil			
● at 50 Hz	0.36		
• at 60 Hz	0.39		
closing delay			
• at AC	10 80 ms		
opening delay			
• at AC	10 18 ms		
arcing time	10 20 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous contact	2		
number of NO contacts for auxiliary contacts instantaneous	2		
contact			
	10 A		
contact	10 A		
contact operational current at AC-12 maximum	10 A 6 A		
contact operational current at AC-12 maximum operational current at AC-15			
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	6 A 3 A 2 A		
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value	6 A 3 A		
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 operational current at DC-12	6 A 3 A 2 A		
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 operational current at DC-12 • at 24 V rated value	6 A 3 A 2 A 1 A		
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value	6 A 3 A 2 A 1 A		
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A		
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 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	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A		
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 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 125 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A		
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 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 125 V rated value • at 220 V rated value • at 220 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A		
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 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 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A		
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 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 125 V rated value • at 220 V rated value • at 600 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value operational current at DC-12 • at 24 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 • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
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 operational current at DC-12 • at 24 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 220 V rated value • at 24 V rated value • at 600 V rated value • 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 60 V rated value • at 60 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
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 operational current at DC-12 • at 24 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	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 148 V rated value • at 148 V rated value • at 155 V rated value • at 150 V rated value • at 110 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 125 V rated value • at 24 V rated value • at 25 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A		
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 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 125 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
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 operational current at DC-12 • at 24 V rated value • at 48 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 220 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 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 100 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 600 V rated value • at 600 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A		
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 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 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 25 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 60 V rated value • at 725 V rated value • at 600 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A		
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 operational current at DC-12 • at 24 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 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		
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 operational current at DC-12 • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 110 V rated value • at 125 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		
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 operational current at DC-12 • at 24 V rated value • at 8 V rated value • at 60 V rated value • at 110 V rated value • at 110 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 24 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		
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 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 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 220 V rated value • at 24 V rated value • at 48 V rated value • at 25 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 480 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	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		
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 operational current at DC-12 • at 24 V rated value • at 8 V rated value • at 60 V rated value • at 110 V rated value • at 110 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 24 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value	6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		

-1 000 V1	45 hr		
— at 230 V rated value	15 hp		
• for 3-phase AC motor	20 ha		
— 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 / Q600		
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 (415 V, 80		
with type of agginment 2 required	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 paralleliar/ magnitude dimensions	gG: 10 A (500 V, 1 kA)		
nstallation/ mounting/ dimensions	// 4000		
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	178 mm		
required spacing			
with side-by-side mounting			
— forwards	10 mm		
— upwards			
— downwards	10 mm		
— at the side	0 mm		
	O IIIIII		
for grounded partsforwards	10 mm		
— upwards	10 mm		
— at the side	6 mm		
— downwards	10 mm		
• for live parts	40		
— 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 	and the second of the second o		
•	spring-loaded terminals		
at contactor for auxiliary contacts	Spring-type terminals		
at contactor for auxiliary contacts of magnet coil			
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts	Spring-type terminals		
at contactor for auxiliary contacts of magnet coil	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²)		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts	Spring-type terminals Spring-type terminals		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²)		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²)		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm²		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm²		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 0.5 1.5 mm²		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 0.5 1.5 mm²		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 0.5 1.5 mm²		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 0.5 1.5 mm² 0.5 2.5 mm²		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts solid or stranded	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 0.5 1.5 mm² 2x (0.5 2.5 mm²)		
at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing connectable conductor cross-section for main contacts finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing for auxiliary contacts for auxiliary contacts finely stranded with core end processing	Spring-type terminals Spring-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 0.5 1.5 mm² 2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)		

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
suitability for use safety-related switching OFF	Yes
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
Certificates/ approvals	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Cer**tificate**





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Marine / Shipping













Marine / Shipping other Railway **Dangerous Good**



Confirmation

Vibration and Shock

Transport Information

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=3RT2038-3AK64-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2038-3AK64-3MA0

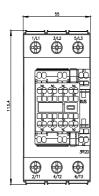
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

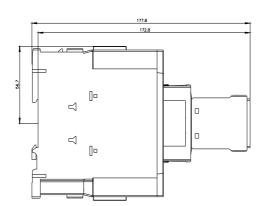
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3AK64-3MA0

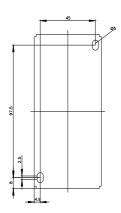
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

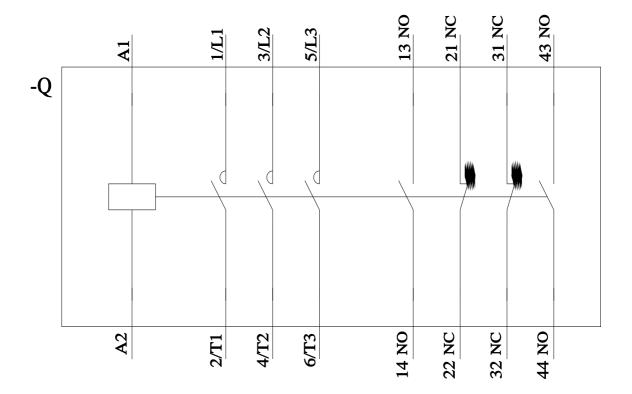
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2038-3AK64-3MA0&lang=en

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-3AK64-3MA0&objecttype=14&gridview=view1









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