SIEMENS

Data sheet

3RT2047-1AF00



Contactor, AC-3, 55 kW/400 V 1 NO+1 NC, 110 V AC 50 Hz 3-pole, 3 NO, Size S3 Screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S3
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	23.7 W
• per pole	7.9 W
power loss [W] for rated value of the current without load current share typical	19 W
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 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)	01.03.2017 00:00:00
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
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	1 000 V

operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	130 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^\circ C$ rated value	130 A
— up to 690 V at ambient temperature 60 °C rated value	110 A
— up to 1000 V at ambient temperature 40 °C rated value	70 A
— up to 1000 V at ambient temperature 60 °C rated value	60 A
● at AC-3	
— at 400 V rated value	110 A
— at 500 V rated value	110 A
— at 690 V rated value	98 A
— at 1000 V rated value	30 A
 at AC-4 at 400 V rated value 	97 A
 at AC-5a up to 690 V rated value 	120 A
• at AC-5b up to 400 V rated value	110 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	98 A
— up to 400 V for current peak value n=20 rated value	98 A
 — up to 500 V for current peak value n=20 rated value 	98 A
— up to 690 V for current peak value n=20 rated value	98 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	65.3 A
 — up to 400 V for current peak value n=30 rated value 	65.3 A
— up to 500 V for current peak value n=30 rated value	65.3 A
 — up to 690 V for current peak value n=30 rated value 	65.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current for approx. 200000 operating cycles at AC-4	
 at 400 V rated value 	46 A
at 690 V rated value	36 A
operational current	
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
• with 2 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
• with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A

operational current 40 A • all current path all C-3 all C-5 40 A - at 10 V rated value 2.5 A - at 440 V rated value 0.15 A - at 440 V rated value 0.06 A • with 2 current paths in series al DC-3 all C-5 00 A - at 440 V rated value 100 A - at 440 V rated value 0.06 A • at 440 V rated value 0.00 A - at 440 V rated value 0.04 A - at 220 V rated value 0.04 A - at 440 V rated value 0.42 A - at 440 V rated value 0.42 A - at 220 V rated value 0.04 A - at 220 V rated value 0.04 A - at 420 V rated value 0.05 A - at 420 V rated value 0.35 A - at 420 V rated value 0.35 A - at 420 V rated value 30 kW - at 420 V rated value 30 kW - at 420 V rated value 30 kW - at 620 V	— at 600 V rated value	2.6 A			
	operational current				
	 at 1 current path at DC-3 at DC-5 				
	— at 24 V rated value	40 A			
- at 440 V rated value0.15 A 0.06 A- at 22V V rated value100 A- at 24 V rated value100 A- at 22V V rated value7.A- at 220 V rated value7.A- at 220 V rated value0.42 A- at 420 V rated value0.42 A- at 420 V rated value0.16 A- at 420 V rated value100 A- at 420 V rated value0.16 A- at 440 V rated value100 A- at 420 V rated value35 A- at 420 V rated value35 A- at 420 V rated value0.5 A- at 230 V rated value0.5 A- at 230 V rated value0.5 A- at 400 V rated value0.6 KW- at 400 V rated value30 KW- at 600 V rated value75 KW- at 600 V rated value76 KW- at 600 V rated value76 KW- at 600 V rated value30 KW- at 600 V fract rates value n=20 rated value- 10 to 500 V	— at 110 V rated value				
	— at 220 V rated value				
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- al 24 V rated value100 A- at 10 V rated value100 A- at 240 V rated value0.42 A- at 440 V rated value0.16 A- at 640 V rated value100 A- at 24 V rated value100 A- at 210 V rated value100 A- at 220 V rated value100 A- at 220 V rated value35 A- at 440 V rated value0.35 A- at 440 V rated value0.36 A- at 440 V rated value30 kW- at 400 V rated value30 kW- at 600 V rated value90 kW- at 600 V rated value90 kW- at 600 V rated value90 kW- at 600 V rated value37 kW- at 600 V rated value90 kW- at 600 V rated value39 kVA- at 600 V fracturent peak value n=20 rated value67 kVA- up to 600 V for current peak value n=20 rated value78 kVA- up to 500 V for current peak value n=30 rated value78 kVA- up to 500 V for current peak value n=30 rated value75 kVA- up to 500 V for current peak value n=30 rated value75 kVA- up to 500 V for current peak value n=30 rated value75 kVA- up to 500 V for current peak value n=30 rated value75 kVA- up to 500 V for curre	— at 600 V rated value	0.06 A			
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	— at 24 V rated value	100 A			
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	— at 220 V rated value	7 A			
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	— at 220 V rated value	35 A			
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• at AC-2 at 400 V rated value55 kW• at 230 V rated value30 kW- at 230 V rated value30 kW- at 400 V rated value55 kW- at 690 V rated value75 kW- at 690 V rated value90 kW- at 1000 V rated value37 kWoperating power for approx. 200000 operating cycles37 kWat 400 V rated value24.3 kW• at 400 V rated value39 kV/A• at 400 V rated value29 kW• at 300 V for current peak value n=20 rated value39 kV/A• up to 230 V for current peak value n=20 rated value44 kV/A• up to 500 V for current peak value n=20 rated value44 kV/A• up to 500 V for current peak value n=30 rated value56 kV/A• up to 500 V for current peak value n=30 rated value56 kV/A• up to 500 V for current peak value n=30 rated value56 kV/A• up to 600 V for current peak value n=30 rated value56 kV/A• up to 600 V for current peak value n=30 rated value56 kV/A• up to 500 V for current peak value n=30 rated value56 kV/A• up to 500 V for current peak value n=30 rated value78 kV/A• up to 500 V for current maximum1960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 switching at zero current maximum1960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 switching at zero current maximum1050 k, Use minimum cross-section acc. to AC-1 rated value• limite	— at 600 V rated value	0.35 A			
• at AC-330 kW- at 230 V rated value30 kW- at 400 V rated value55 kW- at 690 V rated value75 kW- at 690 V rated value90 kW- at 690 V rated value90 kW- at 690 V rated value90 kW- at 400 V rated value92 kWoperating power for approx. 200000 operating cycles76 kW A- at 400 V rated value92 kWoperating apparent power at AC-6a90 kW- up to 400 V for current peak value n=20 rated value- up to 500 V for current peak value n=20 rated value84 kV A- up to 500 V for current peak value n=20 rated value177 kV- operating apparent power at AC-6a26 kV/A- up to 500 V for current peak value n=30 rated value56 kV/A- up to 500 V for current peak value n=30 rated value56 kV/A- up to 500 V for current peak value n=30 rated value1960 A; Use minimum cross-section acc. to AC-1 rated value- limited to 10 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value- limited to 10 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value- limited to 10 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value- limited to 10 s switching at zero current max	operating power				
	• at AC-2 at 400 V rated value	55 kW			
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at 500 V rated value75 kW at 690 V rated value90 kW at 1000 V rated value90 kW at 1000 V rated value70 kWoperating power for approx. 200000 operating cycles at AC-424.3 kW- at 400 V rated value22.9 kWoperating apparent power at AC-5a2.9 kW- up to 530 V for current peak value n=20 rated value39 kV-A- up to 500 V for current peak value n=20 rated value67 kV-A- up to 500 V for current peak value n=20 rated value74 kV-A- up to 500 V for current peak value n=20 rated value74 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value76 kV-A- up to 500 V for current peak value n=30 rated value1502 A; Use minimum cross-section acc. to AC-1 rated value- imited to 10 s switching at zero current maximum	— at 230 V rated value	30 kW			
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operating power for approx. 200000 operating cycles at AC-4 24.3 kW • at 400 V rated value 24.3 kW • at 400 V rated value 32.9 kW operating apparent power at AC-6a 39 kV/-A • up to 230 V for current peak value n=20 rated value 67 kV/-A • up to 500 V for current peak value n=20 rated value 84 kV/-A • up to 500 V for current peak value n=20 rated value 117 kV/-A operating apparent power at AC-6a 44.52 kV/-A • up to 230 V for current peak value n=30 rated value 45.2 kV/-A • up to 500 V for current peak value n=30 rated value 56.5 kV/-A • up to 400 V for current peak value n=30 rated value 78 kV/-A • up to 500 V for current peak value n=30 rated value 78 kV/-A • up to 690 V for current peak value n=30 rated value 78 kV/-A • up to 690 V for current peak value n=30 rated value 1960 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 1 960 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 1 960 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 1 960 A; Use minimum cross-section acc. to AC-1 rated value • limi	— at 690 V rated value	90 kW			
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• up to 230 V for current peak value n=20 rated value39 kV-A• up to 500 V for current peak value n=20 rated value67 kV-A• up to 500 V for current peak value n=20 rated value84 kV-A• up to 690 V for current peak value n=20 rated value117 kV-Aoperating apparent power at AC-6a26 kV-A• up to 230 V for current peak value n=30 rated value26 kV-A• up to 500 V for current peak value n=30 rated value56.5 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value707 X Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum52 kV se minimum cross-section acc. to AC-1 rated value• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 ma	 at 690 V rated value 	32.9 kW			
• up to 400 V for current peak value n=20 rated value67 kV-A• up to 500 V for current peak value n=20 rated value84 kV-A• up to 690 V for current peak value n=20 rated value117 kV-Aoperating apparent power at AC-6a26 kV-A• up to 230 V for current peak value n=30 rated value45.2 kV-A• up to 500 V for current peak value n=30 rated value56.5 kV-A• up to 500 V for current peak value n=30 rated value56.5 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 50 s switching at zero current maximum1095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• at AC-900 1/h• at AC-900 1/h• at AC-1 maximum350 1/	operating apparent power at AC-6a				
• up to 500 V for current peak value n=20 rated value84 kV-A• up to 690 V for current peak value n=20 rated value117 kV-Aoperating apparent power at AC-6a26 kV-A• up to 230 V for current peak value n=30 rated value45.2 kV-A• up to 600 V for current peak value n=30 rated value45.2 kV-A• up to 500 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value78 kV-A• up to 690 V for current peak value n=30 rated value1960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum50 1/h• limited to 60 s switching at zero current maximum50 000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum350 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h	 up to 230 V for current peak value n=20 rated value 	39 kV·A			
• up to 690 V for current peak value n=20 rated value117 kV-Aoperating apparent power at AC-6a26 kV-A• up to 230 V for current peak value n=30 rated value26 kV-A• up to 400 V for current peak value n=30 rated value45.2 kV-A• up to 500 V for current peak value n=30 rated value56.5 kV-A• up to 600 V for current peak value n=30 rated value78 kV-A• up to 600 V for current peak value n=30 rated value78 kV-A• up to 600 V for current peak value n=30 rated value78 kV-A• up to 40 °C1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum5000 1/h• at AC5 0000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-4 maximum200 1/h	 up to 400 V for current peak value n=20 rated value 	67 kV·A			
operating apparent power at AC-6a26 kV·A• up to 230 V for current peak value n=30 rated value26 kV·A• up to 400 V for current peak value n=30 rated value45.2 kV·A• up to 500 V for current peak value n=30 rated value56.5 kV·A• up to 690 V for current peak value n=30 rated value78 kV·Ashort-time withstand current in cold operating state up to 40 °C1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 962 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum1 962 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/hoperating frequency • at AC5 000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h	 up to 500 V for current peak value n=20 rated value 	84 kV·A			
• up to 230 V for current peak value n=30 rated value26 kV·A• up to 400 V for current peak value n=30 rated value45.2 kV·A• up to 500 V for current peak value n=30 rated value56.5 kV·A• up to 690 V for current peak value n=30 rated value78 kV·Ashort-time withstand current in cold operating state up to 40 °C78 kV·A• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 905 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum1095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum500 1/h• at AC5 000 1/hoperating frequency50 1/h• at AC-1 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h	 up to 690 V for current peak value n=20 rated value 	117 kV·A			
• up to 400 V for current peak value n=30 rated value45.2 kV·A• up to 500 V for current peak value n=30 rated value56.5 kV·A• up to 690 V for current peak value n=30 rated value78 kV·Ashort-time withstand current in cold operating state up to 40 °C78 kV·A• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 950 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum707 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum5000 1/h• at AC5 000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h	operating apparent power at AC-6a				
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• up to 690 V for current peak value n=30 rated value78 kV·Ashort-time withstand current in cold operating state up to 40 °C78 kV·A• limited to 1 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum707 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum500 1/h• at AC5 000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h	 up to 400 V for current peak value n=30 rated value 	45.2 kV·A			
short-time withstand current in cold operating state up to 40 °C1• 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 • at AC-1 maximum • at AC-3 maximum • at AC-4 maximum •	 up to 500 V for current peak value n=30 rated value 	56.5 kV·A			
up to 40 °C1 960 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum1 502 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum707 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h	 up to 690 V for current peak value n=30 rated value 	78 kV·A			
• limited to 5 s switching at zero current maximum1 502 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum1 095 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum707 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency5000 1/h• at AC5 000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h					
• 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 • binted to 60 s switching at zero current switching binted to 60 s switching at zero current switching binted to 60 s switching at zero current switching binted to 60 s switching binte	 limited to 1 s switching at zero current maximum 	1 960 A; Use minimum cross-section acc. to AC-1 rated value			
• limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum707 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC5000 1/hoperating frequency5000 1/h• at AC-1 maximum900 1/h• at AC-2 maximum • at AC-3 maximum350 1/h• at AC-4 maximum • at AC-4 maximum200 1/hControl circuit/ ControlACtype of voltage of the control supply voltageAC	 limited to 5 s switching at zero current maximum 	1 502 A; Use minimum cross-section acc. to AC-1 rated value			
• limited to 60 s switching at zero current maximum562 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency-• at AC5 000 1/hoperating frequency-• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximum200 1/h	 limited to 10 s switching at zero current maximum 	1 095 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency• at AC5 000 1/hoperating frequency900 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/hControl circuit/ ControlKtype of voltage of the control supply voltageAC	 limited to 30 s switching at zero current maximum 	707 A; Use minimum cross-section acc. to AC-1 rated value			
• at AC5 000 1/hoperating frequency900 1/h• at AC-1 maximum900 1/h• at AC-2 maximum350 1/h• at AC-3 maximum850 1/h• at AC-4 maximum200 1/h• at AC-4 maximumAC• at AC-4 maximumAC	 limited to 60 s switching at zero current maximum 	562 A; Use minimum cross-section acc. to AC-1 rated value			
operating frequency 900 1/h • at AC-1 maximum 900 1/h • at AC-2 maximum 350 1/h • at AC-3 maximum 850 1/h • at AC-4 maximum 200 1/h Control circuit/ Control X	no-load switching frequency				
• at AC-1 maximum 900 1/h • at AC-2 maximum 350 1/h • at AC-3 maximum 850 1/h • at AC-4 maximum 200 1/h • at AC-4 maximum 200 1/h • of voltage of the control supply voltage AC	● at AC	5 000 1/h			
• at AC-2 maximum 350 1/h • at AC-3 maximum 850 1/h • at AC-4 maximum 200 1/h Control circuit/ Control 200 1/h					
	● at AC-1 maximum	900 1/h			
• at AC-4 maximum 200 1/h Control circuit/ Control type of voltage of the control supply voltage AC		350 1/h			
Control circuit/ Control type of voltage of the control supply voltage AC		850 1/h			
type of voltage of the control supply voltage AC		200 1/h			
	Control circuit/ Control				
control supply voltage at AC	type of voltage of the control supply voltage	AC			
control supply voltage at AC	control supply voltage at AC				

	440.14
at 50 Hz rated value	110 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	0.0 1.1
• at 50 Hz	296 V·A
inductive power factor with closing power of the coil	200 V A
• at 50 Hz	0.61
apparent holding power of magnet coil at AC	
• at 50 Hz	19 V·A
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.38
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 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	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
 at 230 V rated value 	6 A
 at 400 V rated value 	3 A
 at 500 V rated value 	2 A
 at 690 V rated value 	1 A
operational current at DC-12	
 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 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	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
at 110 V rated value	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	00.4
at 480 V rated value	96 A
at 600 V rated value	99 A
yielded mechanical performance [hp]	
for single-phase AC motor at 110/120 V roted value	10 hn
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
 for 3-phase AC motor — at 200/208 V rated value 	30 hp
	30 hp
— at 220/230 V rated value — at 460/480 V rated value	40 hp 75 hp
	10110

— at 575/600 V rated value	100 hp			
contact rating of auxiliary contacts according to UL	A600 / P600			
	A0007 F 000			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit — with type of coordination 1 required 	aC: 250 A (600 V 100 kA) aM: 160 A (600 V 100 kA) BS88: 200 A			
	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: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A (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	140 mm			
width	70 mm			
depth	152 mm			
required spacing				
with side-by-side mounting				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
for grounded parts	U IIIII			
	20 mm			
— forwards	20 mm			
— upwards	10 mm			
— at the side	10 mm			
— downwards	10 mm			
 for live parts 				
— forwards	20 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	10 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				
 — finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)			
at AWG cables for main contacts	2x (10 1/0), 1x (10 2)			
connectable conductor cross-section for main contacts	(· · · · · ·), · · · (· · · · · -)			
• solid	2.5 16 mm²			
stranded	6 70 mm ²			
 finely stranded with core end processing 	2.5 50 mm ²			
connectable conductor cross-section for auxiliary				
contacts				
 solid or stranded 	0.5 2.5 mm²			
 finely stranded with core end processing 	0.5 2.5 mm²			
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 mm ²), 2x (0,75 2,5 mm ²)			
 at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14)			

AWG number as cod	led connectable conduc	ctor cross				
section						
 for main contact 	ts		10 2			
 for auxiliary con 	tacts	20	20 14			
Safety related data						
	rror contact acc. to IEC		Yes			
	emand rate acc. to SN 31	1920 1 0	00 000			
proportion of dange	rous failures					
	d rate acc. to SN 31920		40 %			
	nd rate acc. to SN 31920		73 %			
	ow demand rate acc. to S		100 FIT			
60947-5-1	ively driven operation acc		No			
T1 value for proof te IEC 61508	st interval or service lif	e acc. to 20	у			
	on the front acc. to IEC					
	the front acc. to IEC 60	529 fine	ger-safe, for vertical cont	act from the front		
suitability for use						
 safety-related system 	-	Ye	S			
 safety-related st 	-	Ye	Yes			
Certificates/ approvals	S					
General Product Ap	proval				EMC	
SP.	CCC CCC	(ŲL)	KC	EHC	RCM	
Functional Safety/Safety of Machinery	Declaration of Confo	rmity	Test Certificates		Marine / Shipping	
<u>Type Examination</u> <u>Certificate</u>	<u>UK Declaration of</u> <u>Conformity</u>	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS	
Marine / Shipping					other	
Llovd's Register uts	PRS	RINA	RMRS	DNV-GL DNV-GL DNV-LCDRXP	<u>Confirmation</u>	
Railway						

Vibration and Shock

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=3RT2047-1AF00 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AF00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AF00

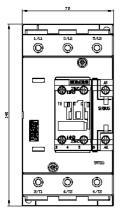
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AF00&lang=en

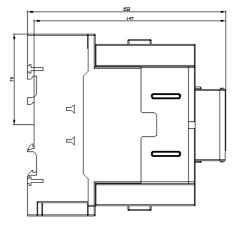
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AF00/char

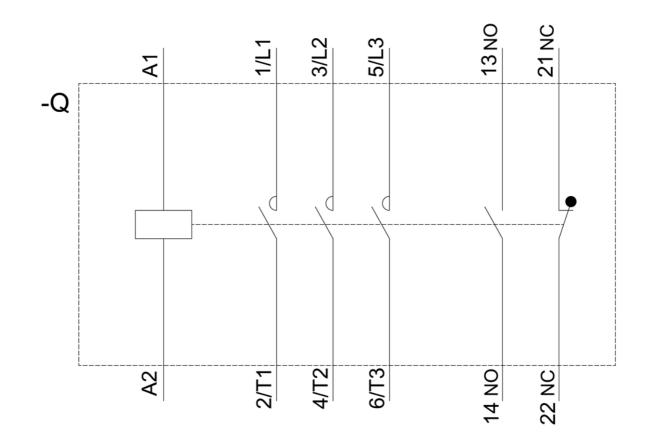
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AF00&objecttype=14&gridview=view1









last modified:

3/26/2021 🖸