SIEMENS

Data sheet 3RT2047-1AF04



Contactor, AC-3, 55 kW/400 V 2 NO+2 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	
insulation voltage		
 of main circuit with degree of pollution 3 rated value 	1 000 V	
 of auxiliary circuit with degree of pollution 3 rated value 	690 V	
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	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-25 +60 °C	
during storage	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C acc. to IEC 60068-2-30	95 %	

maximum	
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 	130 A
rated value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	130 A
 up to 690 V at ambient temperature 60 °C rated value 	110 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 at AC-6a 	98 A
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	1A
with 3 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	100 A 100 A
	100 A 80 A
— at 220 V rated value	
— at 440 V rated value	4.5 A

	— at 600 V rated value	2.6 A		
	at 1 current path at DC-3 at DC-5			
	— at 24 V rated value	40 A		
	— at 110 V rated value	2.5 A		
with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 100 V rated value at 420 V rated value at 440 V rated value at 460 V rated value at 660 V rated value apu to 400 V for current pack value n=20 rated value apu to 400 V for current pack value n=20 rated value apu to 500 V for current pack value n=20 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80 rated value apu to 500 V for current pack value n=80	— at 220 V rated value	1 A		
with 2 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.15 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	100 A		
	— at 110 V rated value	100 A		
0.16 A	— at 220 V rated value	7 A		
with 3 current paths in series at DC-3 at DC-5	— at 440 V rated value	0.42 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	100 A		
- at 440 V rated value - at 600 V rated value - 3.5 Å operating power • at AC-2 at 400 V rated value - 55 kW - at 400 V rated value - 55 kW - at 400 V rated value - 55 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 75 kW - at 690 V rated value - 20 rated value - 20 rated value - 20 rated value - 20 v for current peak value n=20 rated value - 10 to 500 V for current peak value n=20 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=30 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 rated value - 10 to 500 V for current peak value n=50 r	— at 110 V rated value	100 A		
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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 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 1000 V rated value — operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value • up to 230 V for current peak value n=20 rated value • up to 400 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 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 • 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 • at 660 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 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	— at 440 V rated value	0.8 A		
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at AC-4 • at 400 V rated value • at 690 V rated value • 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=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 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 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 • 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 800 V for current peak value n=30 rated value • limited to 10 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 • limit				
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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=20 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 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 • 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 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to	 at 400 V rated value 	24.3 kW		
up to 230 V for current peak value n=20 rated value 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 590 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 ilimited to 1 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 at Including the foliation of th	at 690 V rated value	32.9 kW		
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 230 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 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 ilimited to 1 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 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum at AC-2 maximum at AC-2 maximum at AC-2 maximum at AC-4 maximum 200 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 117 kV-A 26 kV-A 45.2 kV-A 56.5 kV-A 78 kV-A 1960 A; Use minimum cross-section acc. to AC-1 rated value 1 502 A; Use minimum cross-section acc. to AC-1 rated value 1 502 A; Use minimum cross-section acc. to AC-1 rated value 26 kV-A 1 500 A; Use minimum cross-section acc. to AC-1 rated value 26 kV-A 1 500 A; Use minimum cross-section acc. to AC-1 rated value 2 500 A; Use minimum cross-section acc. to AC-1 rated value 3 500 A; Use minimum cross-section acc. to AC-1 rated value 3 500 A; Use minimum cross-section acc. to AC-1 rated value 3 500 A; Use minimum cross-section acc. to AC-1 rated value 3 500 A; Use minimum cross-section acc. to AC-1 rated value 3 500 A; Use minimum cross-section acc. to AC-1 rated value 3 500 A; Use minimum cross-section acc. to AC-1 rated value 4 1 50 A; Use minimum cross-section acc. to AC-1 rated value 5 50 A; Use minimum cross-section acc. to AC-1 rated value 5 50 A; Use minimum cross-section acc. to AC-1 rated value 5 50 A; Use minimum cross-section acc. to AC-1 rated value 5 50 A; Use minimum cross-section acc	operating apparent power at AC-6a			
up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6 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 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 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum oload switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 10 set kV-A 45.2 kV-A 45.2 kV-A 45.2 kV-A 45.2 kV-A 78 kV-A 1960 A; Use minimum cross-section acc. to AC-1 rated value 1 soc A; Use minimum cross-section acc. to AC-1 rated value 1 soc A; Use minimum cross-section acc. to AC-1 rated value 1 soc A; Use minimum cross-section acc. to AC-1 rated value 1 soc A; Use minimum cross-section acc. to AC-1 rated value 1 soc A; Use minimum cross-section acc. to AC-1 rated value 1 soc A; Use minimum cross-section acc. to AC-1 rated value 1 soc A; Use minimum cross-section acc. to AC-1 rated value 2 soc A; Use minimum cross-section acc. to AC-1 rated value 2 soc A; Use minimum cross-section acc. to AC-1 rated value 3 soc A; Use minimum cross-section acc. to AC-1 rated value 3 soc A; Use minimum cross-section acc. to AC-1 rated value 3 soc A; Use minimum cross-section acc. to AC-1 rated value 4 soc A; Use minimum cross-section acc. to AC-1 rated value 5 soc A; Use minimum cross-section acc. to AC-1 rated value 5 soc A; Use minimum cross-section acc. to AC-1 rated value 5 soc A; Use minimum cross-section acc. to AC-1 rated va	 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 value 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 • 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 5 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	 up to 400 V for current peak value n=20 rated value 	67 kV·A		
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 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 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 • 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 **OF A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **TOT A; Use minimum cross-section acc. to AC-1 rated value **T	 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 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 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 60 s switching at zero current m	• 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 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 short-time withstand current in cold operating state up to 40 °C elimited to 1 s switching at zero current maximum elimited to 5 s switching at zero current maximum elimited to 10 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 30 s switching at zero current maximum elimited to 60 s switching at zero current max	operating apparent power at AC-6a			
• 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 • 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 • limited to 60 s switching at zero current maximum • loo 1/h • at AC- • at AC-1 rated value • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-	• up to 230 V for current peak value n=30 rated value	26 kV·A		
• 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 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 • at AC • at AC Control circuit/ Control type of voltage of the control supply voltage • at 50 Hz rated value 78 kV·A 1 960 A; Use minimum cross-section acc. to AC-1 rated value 1 095 A; Use minimum cross-section acc. to AC-1 rated value 1 095 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 905 A; Use minimum cross-section acc. to AC-1 rated value 1 095 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 5 000 1/h 6 000 1/h 700 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 °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 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 no-load switching frequency • at AC-1 maximum • at AC-2 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-5 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-3 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-7 maximum • at AC-8 maximum • at AC-9 maximum • at AC-9 maximum • at AC-9 maximum • at AC-1 maximum • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-5 maximum • at AC-5 maximum • at AC-6 maximum • at AC-7 maximum • at AC-9 maximum • a	• up to 500 V for current peak value n=30 rated value	56.5 kV·A		
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 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 no-load switching frequency • at AC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at AC-4 maximum • at SO Hz rated value operating range factor control supply voltage rated 1 960 A; Use minimum cross-section acc. to AC-1 rated value 1 095 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 560 A; Use minimum cross-section acc. to AC-1 rated value 561 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 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 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 looperating frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-3 type of voltage of the control supply voltage at 50 Hz rated value at 50 Hz rated value 				
 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 no-load switching frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 type of voltage of the control supply voltage at 50 Hz rated value 1502 A; Use minimum cross-section acc. to AC-1 rated value 707 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value 562 A; Use minimum cross-section acc. to AC-1 rated value at AC-1 rated value biol 1/h biol 2 A; Use minimum cross-section acc. to AC-1 rated value biol 2 A; Use minimum cross-section acc. to AC-1 rated value biol 2 A; Use minimum cross-section acc. to AC-1 rated value biol 2 A; Use minimum cross-section acc. to AC-1 rated value biol 2 A; Use minimum cross-section acc. to AC	up to 40 °C			
 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 no-load switching frequency at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at 50 Hz rated value 				
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum				
 ● limited to 60 s switching at zero current maximum no-load switching frequency ● at AC 5 000 1/h operating frequency ● at AC-1 maximum ● at AC-2 maximum ● at AC-3 maximum ● at AC-4 maximum ● at AC-4 maximum Eontrol circuit/ Control type of voltage of the control supply voltage ● at 50 Hz rated value 110 V operating range factor control supply voltage rated 	 limited to 10 s switching at zero current maximum 			
no-load switching frequency • at AC operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 maximum • at AC-4 maximum 200 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value 110 V operating range factor control supply voltage rated	 limited to 30 s switching at zero current maximum 			
 at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value operating range factor control supply voltage rated 	 limited to 60 s switching at zero current maximum 	562 A; Use minimum cross-section acc. to AC-1 rated value		
operating frequency • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum • at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated	no-load switching frequency			
 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum 200 1/h Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated 	• at AC	5 000 1/h		
 at AC-2 maximum at AC-3 maximum at AC-4 maximum 200 1/h Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated 				
 at AC-3 maximum at AC-4 maximum 200 1/h Control circuit/ Control type of voltage of the control supply voltage Control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated 	at AC-1 maximum	900 1/h		
● at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage Control supply voltage at AC ● at 50 Hz rated value operating range factor control supply voltage rated	at AC-2 maximum	350 1/h		
type of voltage of the control supply voltage AC control supply voltage at AC • at 50 Hz rated value 110 V operating range factor control supply voltage rated	at AC-3 maximum	850 1/h		
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated	• at AC-4 maximum	200 1/h		
control supply voltage at AC	Control circuit/ Control			
• at 50 Hz rated value operating range factor control supply voltage rated	type of voltage of the control supply voltage	AC		
• at 50 Hz rated value operating range factor control supply voltage rated				
		110 V		

● at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	296 V·A
inductive power factor with closing power of the coil	
● 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	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 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	6 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	
 at 480 V rated value 	96 A
at 600 V rated value	99 A
yielded mechanical performance [hp]	
• for single-phase AC motor	401
— at 110/120 V rated value	10 hp
— at 230 V rated value	20 hp
• for 3-phase AC motor	201
— at 200/208 V rated value	30 hp
— at 220/230 V rated value	40 hp
— at 460/480 V rated value	75 hp
— at 575/600 V rated value	100 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	

• for short-circuit protection of the main circuit gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA) - with type of coordination 1 required gG: 200A (690V,100kA), aM: 100A (690V,100kA), BS88: 160A - with type of assignment 2 required (415V,80kA) • for short-circuit protection of the auxiliary switch gG: 10 A (500 V, 1 kA) required 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 screw and snap-on mounting onto 35 mm standard mounting rail fastening method according to DIN EN 60715 Yes • side-by-side mounting 140 mm height width 70 mm 195 mm depth required spacing • with side-by-side mounting

with side-by-side mounting		
— forwards	20 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
 for grounded parts 		
— 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 mm²	
finely stranded with core end processing	2.5 50 mm²	
connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 2.5 mm ²	
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)	
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross section		
• for main contacts	10 2	
for auxiliary contacts	20 14	
Safety related data		
product function		

 mirror contact acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5-1 	No
B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
suitability for use	
 safety-related switching on 	Yes
 safety-related switching OFF 	Yes

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC Safe	ctional hty/Safety of Declaration of Conformity hinery	Test Certificates	Marine / Shipping
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Type Examination Certificate



UK Declaration of Conformity Special Test Certificate



Marine / Shipping other











Confirmation

Dangerous Good

<u>Transport Information</u>

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2047-1AF04

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AF04

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AF04

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

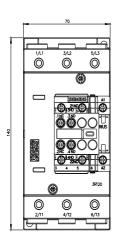
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AF04&lang=en

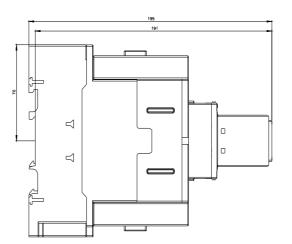
 $\label{lem:characteristic:} \textbf{Characteristic: Tripping characteristics, } \textbf{I}^{2}\textbf{t, Let-through current}$

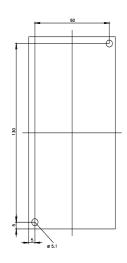
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AF04/char

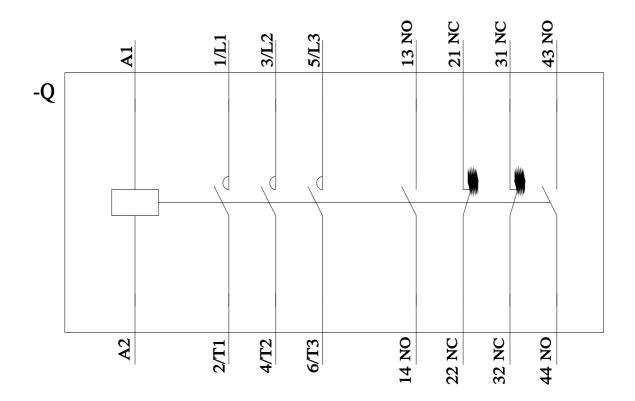
Further characteristics (e.g. electrical endurance, switching frequency)

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RT2047-1AF04\&objecttype=14\&gridview=view1}$









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