SIEMENS

Data sheet 3RT2047-1AP00



power contactor, AC-3 110 A, 55 kW / 400 V, 1 NO + 1 NC, 230 V AC, 50 Hz 3-pole, 3NO, 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	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
during operation	-25 +60 °C	
during storage	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C acc. to IEC 60068-2-30 maximum	95 %	
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 $^{\circ}\text{C}$ rated value	130 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	110 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ 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 valueat AC-6a	110 A
 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 mm²
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
— at 600 V rated value	2.6 A

* at 1 current path at DC-3 at DC-5			
	at 1 current path at DC-3 at DC-5		
- with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 110 V rated value - at 110 V rated value - at 220 V rated value - at 220 V rated value - at 110 V rated value - at 20 V rated value - at 440 V rated value - at 600 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 600 V rated value - a			
- with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value - at 400 V rated value - at 600 V rated value - at 600 V rated value - at 600 V rated value - at 100 V rated value - at 100 V rated value - at 100 V rated value - at 110 V rated value - at 110 V rated value - at 110 V rated value - at 120 V rated value - at 220 V rated value - at 120 V rated value - at 600 V rated v			
		0.06 A	
	•		
	— at 24 V rated value		
	— at 110 V rated value		
■ with 3 current paths in series at DC-3 at DC-5	— at 220 V rated value		
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 - at 600 V rated value - at AC-2 at 400 V rated value - at 400 V rated value - at 400 V rated value - at 690 V rated value - at 1000 V rocurent peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=20 rated value - up to 500 V for current peak value n=30 rated value - up to 500 V for current peak value n=50 rated value - up to 500 V for current peak value n=50 rated value - up to 500 V for c	— at 110 V rated value	100 A	
operating power at AC-2 at 400 V rated value at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 1000 V rated value — at 400 V rated value — at 600 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 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=30 rated value — up to 600 V for current peak value n=50 rated value — up to 600 V for current peak value n=50 rated value — up to 600 V for current peak value n=50 rated value — up to 600 V for curr	— at 220 V rated value	35 A	
operating power at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 1000 V rated value at 1000 V rated value at 1000 V rated value 30 kW 75 kW 90 kW 37 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690	— at 440 V rated value	0.8 A	
at AC-2 at 400 V rated value at AC-3 at 230 V rated value at 400 V rated value at 690 V rated value at 690 V rated value yoperating power for approx. 200000 operating cycles at AC-4 at 400 V rated value yoperating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 24.3 kW 22.9 kW 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 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current maximum inimited to 30 s switching at zero current maximum inimited to 30 s switching at zero current maximum inimited to 30 s switching at zero current maximum inimited to 30 s switching at zero current maximum inimited to 30 s switching at zero current maximum inimited to 50 s switching at zero current maximum alimited to 60 s switching at zero current maximum alimited to 60 s switching at zero current maximum alimited to 60 switching at zero current maximum a	— at 600 V rated value	0.35 A	
at AC-3 at 230 V rated value at 400 V rated value at 55 kW at 690 V rated value at 1000 V rated value at 1000 V rated value at 1000 V rated value 30 kW so with 1000 V rated value at 1000 V rated value 30 kW 37 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 32,9 kW operating apparent power at AC-6a 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 500 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value so up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value so up to 500 V for current peak value n=30 rated value so up to 500 V for current peak value n=30 rated value 176 kV-A 45.2 kV-A 55.5 kV-A 78 kV-A 1960 A; Use minimum cross-section acc. to AC-1 rated value 1095 A; Use minimum cross-section acc. to AC-1 rated value 1095 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use minimum cross-section acc. to AC-1 rated value 1096 A; Use mi	operating power		
- at 230 V rated value - at 400 V rated value - at 690 V rated value - at 690 V rated value - at 690 V rated value - at 1000 V rated value - at 400 V rated value - 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 500 V for current peak value n=20 rated value - up to 230 V for current peak value n=30 rated value - up to 500 V f	 at AC-2 at 400 V rated value 	55 kW	
- at 400 V rated value - at 509 V rated value - at 690 V rated value 90 kW - at 1000 V rated value 90 kW 24.3 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 24.3 kW at 690 V rated value 90 porating apparent power at AC-5a up to 230 V for current peak value n=20 rated value 90 to 400 V for current peak value n=20 rated value 90 to 500 V for current peak value n=20 rated value 90 porating apparent power at AC-6a 90 to 500 V for current peak value n=20 rated value 90 to 500 V for current peak value n=20 rated value 90 porating apparent power at AC-6a 90 to 500 V for current peak value n=30 rated value 90 porating apparent power at AC-6a 90 to 500 V for current peak value n=30 rated value 90 to 500 V for current peak value n=30 rated value 90 to 600 V for current peak value n=30 rated value 90 to 600 V for current peak value n=30 rated value 90 to 600 V for current peak value n=30 rated value 90 to 600 V for current peak value n=30 rated value 90 to 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rated value 10 pto 600 V for current peak value n=30 rat	• at AC-3		
- at 500 V rated value - at 1000 V rated value - at 1000 V rated value - at 1000 V rated value	— at 230 V rated value	30 kW	
- at 690 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 • at 690 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 990 V for current peak value n=20 rated value • up to 900 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • 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 short-time withstand current in cold operating state up to 40 °C • limited to 1 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 30 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 30 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 30 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 switching at zero current maximum • limited to 10 switching at zero current maximum • limited to 10 switching at	— at 400 V rated value	55 kW	
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 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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value **St. kV-A** **Sk.V-A** **Sk.V-A** 1 960 A; Use minimum cross-section acc. to AC-1 rated value 1 502 A; Use minimum cross-section acc. to AC-1 rated value 1 995 A; Use minimum cross-section acc. to AC-1 rated value 1 995 A; Use minimum cross-section acc. to AC-1 rated value 262 A; Use minimum cross-section acc. to AC-1 rated value 1 990 1/h 201 1/h 201 1/h 202 1/h 203 1/h 203 1/h 203 1/h 203 1/h 203 1/h 203 1/h 204 1/C 207 maximum 205 1/h 206 1/h 207 1/h 208 1/h 209 1/h	— at 500 V rated value	75 kW	
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 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 500 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 400 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 10 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 50 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • 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 curren	— at 690 V rated value	90 kW	
at AC-4 • at 400 V rated value • at 690 V rated value • at 690 V rated value operating apparent power at AC-8a • 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 590 V for current peak value n=20 rated value • up to 690 V for current peak value n=20 rated value • up to 500 V for current peak value n=30 rated value • up to 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 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • up to 500 V for current peak value n=30 rated value • 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 • 1 900 A; Use minimum cross-section acc. to AC-1 rated value • 1 900 A; Use minimum cross-section	— at 1000 V rated value	37 kW	
at 400 V rated value at 690 V rated value by 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 400 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 400 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 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 maximum ilimited to 1 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 s switching at zero current maximum ilimited to 10 swi			
at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 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 400 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value sobort-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 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum ilimited to 60 s switching at zero current maximum at AC-3 maximum at AC-3 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 23.9 kW 39 kV-A 67 kV-A 84 kV-A 117 kV-A 96 kV-A 45.2 kV-A 56.5 kV-A 45.2 kV-A 56.5 kV-A 1 960 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc. to AC-1 rated value 1 900 A; Use minimum cross-section acc.			
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 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 • 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 60 s switching at zero current maximum • limited to 6			
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 590 V for current peak value n=20 rated value up to 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 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 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 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 olioad switching frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum oliontrol circuit/ Control type of voltage of the control supply voltage rated value of magnet coil at AC		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 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 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 short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum noload 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 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 value of magnet coil at AC		0011/4	
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-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 vig to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value in to 690 V for current peak value n=30 rated value 1 960 A; Use minimum cross-section acc. to AC-1 rated value 1 995 A; Use minimum cross-section acc. to AC-1 rated value in to 690 V a; Use minimum cross-section acc. to AC-1 rated value in to 600 S switching at zero current maximum il mited to 10 s switching at zero current maximum il mited to 60 s switching at zero current maximum il mited to 60 s switching at zero current maximum il mited to 60 s switching at zero current maximum il mited to 60 s switching at zero current maximum il mited to 60 s switching at zero current maximum il mited to 60 s switching at zero current maximum il mited to 60 s switching at zero current maximum il mited to 60 s switching at zero current maximum in to 600 A; Use minimum cross-section acc. to AC-1 rated value 500 A; Use minimum cross-section acc. to AC-1 rated value 500 A; Us			
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 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 el limited to 1 s switching at zero current maximum el limited to 10 s switching at zero current maximum el limited to 30 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el limited to 60 s switching at zero current maximum el at AC operating frequency e at AC-1 maximum e at AC-2 maximum et AC-2 maximum et AC-2 maximum et AC-4 maximum et AC-5 maximum et AC-6 maximum et AC-6 maximum et AC-7 maximum et AC-8 maximum et AC-9 maximum et AC-1 maximum et AC-1 maximum et AC-2 maximum et AC-3 maximum et AC-4 maximum et AC-4 maximum et AC-4 maximum et AC-4 maximum et AC-5 maximum et AC-6 maximum et AC-7 maximum et AC-8 maximum et AC-9 m			
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 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 • 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 short-time withstand current in cold operating state up to 40 °C • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum short-time withstand current in cold operating state up to 40 °C • limited to 10 s switching at zero current maximum short-time withstand current in cold operating to 40 °C short-time withstand current in cold operating state up to 40 °C short-time withstand current in cold operating state up to 40 °C 1 960 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 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 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 1 096 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 1 095 A; Use minimum cross-section acc. to AC-1 rated value 1 095 A; Use minimum			
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 10 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 ilimited to 60 s switching at zero current maximum olimited to 60 s switching at zero current maximum share at AC operating frequency at AC ot AC-1 rated value 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 562 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 562 A; Use minimum cross-section acc. to AC-1 rated value 562 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 562 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 563 A; Use minimum cross-section acc. to AC-1 rated value 564 A; Use minimum cross-section acc. to AC-1 rated value 565 A; Use minimum cross-section acc. to AC-1 rated value 566 A; Use minimum cross-section acc. to AC-1 rated value 567 A; Use minimum cross-section acc. to AC-1 rated value 568 A; Use min	<u> </u>	11/ 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 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 30 s switching at zero current maximum limited to 60 s switchin		0011/4	
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 imited to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmite			
• 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 5 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 80 switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s switching at zero current maximum • limited to 80 s swi			
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 30 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 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 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 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 10 s switching at zero current maximum • 1095 A; Use minimum cross-section acc. to AC-1 rated value • 62 A; Use minimum cross-section acc. to AC-1 rated value • 620 A; Use minimum cross-section acc. to AC-1 rated value • 620 A; Use minimum cross-section acc. to AC-1 rated value • 620 A; Use minimum cross-section acc. to AC-1 rated value • 620 A; Use minimum cross-section acc. to AC-1 rated value • 620 A; Use minimum cross-section acc. to AC-1 rated value • 620 A; Use minimum cross-section acc. to AC-1 rated value • 620 A; U	·		
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 • loop at AC • at AC • at AC-1 rated value • 1 950 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 • 5000 1/h • 2 000 1/h • 3 000 1/h		78 kV·A	
 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 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 AC-5 voltage of the control supply voltage at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value at AC-4 maximum at 50 Hz rated value at AC-4 maximum at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value at AC-4 maximum at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value at AC-4 maximum at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value 	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 operating frequency 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-1 maximum at AC-3 maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value 230 V	 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 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 maximum	 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 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-3 maximum at AC-4 maximum at SO 1/h at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value at AC-4 maximum 	 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 AC 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 value of magnet coil at AC 5 000 1/h 5 000 1/h 9 00 1/h AC 200 1/h AC 201 1/h 202 1/h 203 1/h 204 1/h 205 1/h 207 1/h 208 1/h 209 1/h 200 1/h	 limited to 30 s switching at zero current maximum 	707 A; Use minimum cross-section acc. to AC-1 rated value	
 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 at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC 	Iimited 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 • 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 value of magnet coil at AC	no-load switching 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 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 value of magnet coil at AC 	• at AC	5 000 1/h	
 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 at 50 Hz rated value 	operating frequency		
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 value of magnet coil at AC	• 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 value of magnet coil at AC AC 230 V	• 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 230 V operating range factor control supply voltage rated value of magnet coil at AC	• 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 value of magnet coil at AC AC 230 V	• at AC-4 maximum	200 1/h	
control supply voltage at AC • at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	Control circuit/ Control		
• at 50 Hz rated value 230 V operating range factor control supply voltage rated value of magnet coil at AC	type of voltage of the control supply voltage	AC	
operating range factor control supply voltage rated value of magnet coil at AC	control supply voltage at AC		
value of magnet coil at AC	• at 50 Hz rated value	230 V	
• at 50 Hz 0.8 1.1	_		
	● 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	0.04
• 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	19 V·A
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 at 600 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 rated value 	10 hn
— at 110/120 v rated value — at 230 V rated value	10 hp 20 hp
for 3-phase AC motor	20 πρ
at 200/208 V rated value	30 hp
— at 200/200 V rated value — at 220/230 V rated value	40 hp
— at 460/480 V rated value	
— at 450/480 V rated value — at 575/600 V rated value	75 hp 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	
5 for orion orion protection of the main oriont	

— with type of coordination 1 required	gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A	
— with type of assignment 2 required	(415 V, 80 kA) 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	22	
— 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		
type of electrical connection • for main current circuit	screw-type terminals	
for main current circuit	screw-type terminals screw-type terminals	
for main current circuitfor auxiliary and control circuit	screw-type terminals	
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts 	screw-type terminals Screw-type terminals	
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil 	screw-type terminals	
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections	screw-type terminals Screw-type terminals	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts	screw-type terminals Screw-type terminals Screw-type terminals	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts	screw-type terminals Screw-type terminals Screw-type terminals	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for main contacts connectable conductor cross-section for auxiliary	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 0.5 2.5 mm²	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing at AWG cables for auxiliary contacts	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections of auxiliary contacts — solid or stranded — finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for main current circuit of rauxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of main contacts — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • solid • stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts Safety related data	screw-type terminals Screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)	
for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts solid stranded finely stranded with core end processing connectable conductor cross-section for auxiliary contacts solid or stranded finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts for auxiliary contacts	screw-type terminals Screw-type terminals 2x (2.5 35 mm²), 1x (2.5 50 mm²) 2x (10 1/0), 1x (10 2) 2.5 16 mm² 6 70 mm² 2.5 50 mm² 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	

 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>





Type Examination
Certificate

UK Declaration of Conformity



Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













other	Railway	Dangerous Good

<u>Confirmation</u> <u>Vibration and Shock</u> <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=3RT2047-1AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2047-1AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AP00

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

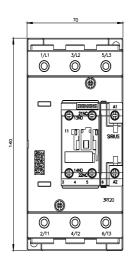
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2047-1AP00&lang=ender.siemens.com/bilddb/cax_de.aspx.com/bilddb/cax$

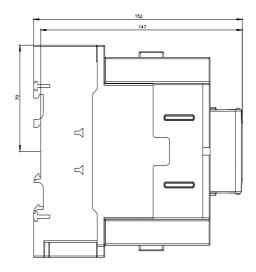
Characteristic: Tripping characteristics, I2t, Let-through current

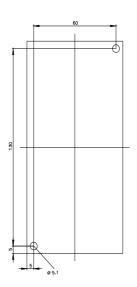
https://support.industry.siemens.com/cs/ww/en/ps/3RT2047-1AP00/char

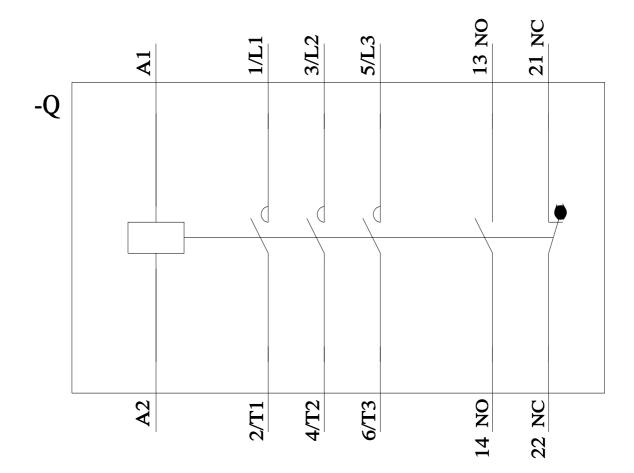
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2047-1AP00&objecttype=14&gridview=view1









last modified:

11/27/2021 🗗