SIEMENS

Data sheet 3RT1055-1AF36

Power contactor, AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V AC/DC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 with box terminal



Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1

General technical data	
Size of contactor	S6
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 	27 W
 at AC in hot operating state per pole 	9 W
Power loss [W] for rated value of the current without	5.2 W
load current share typical	
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 	690 V
60947-1	

IP20; IP20 on the front with cover / box terminal
IP00
8,5g / 5 ms, 4,2g / 10 ms
8,5g / 5 ms, 4,2g / 10 ms
13,4g / 5 ms, 6,5g / 10 ms
13,4g / 5 ms, 6,5g / 10 ms
10 000 000
5 000 000
10 000 000
κ
Q
2 000 m
2 000 m
2 000 m -25 +60 °C
-25 +60 °C
-25 +60 °C
-25 +60 °C -55 +80 °C
-25 +60 °C -55 +80 °C
-25 +60 °C -55 +80 °C
-25 +60 °C -55 +80 °C
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-25 +60 °C -55 +80 °C
-25 +60 °C -55 +80 °C
-25 +60 °C -55 +80 °C
-25 +60 °C -55 +80 °C
-25 +60 °C -55 +80 °C 3 3 1 000 V 185 A 185 A
-25 +60 °C -55 +80 °C 3 3 1 000 V 185 A 185 A 160 A

● at AC-3	
— at 400 V rated value	150 A
— at 500 V rated value	150 A
— at 690 V rated value	150 A
— at 1000 V rated value	65 A
• at AC-4 at 400 V rated value	132 A
● at AC-5a up to 690 V rated value	162 A
• at AC-5b up to 400 V rated value	124 A
● at AC-6a	
 up to 230 V for current peak value n=20 rated value 	148 A
 up to 400 V for current peak value n=20 rated value 	148 A
 up to 500 V for current peak value n=20 rated value 	148 A
 up to 690 V for current peak value n=20 rated value 	148 A
 up to 1000 V for current peak value n=20 rated value 	57 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	99 A
 up to 400 V for current peak value n=30 rated value 	99 A
 up to 500 V for current peak value n=30 rated value 	99 A
 up to 690 V for current peak value n=30 rated value 	99 A
 up to 1000 V for current peak value n=30 rated value 	57 A
Minimum cross-section in main circuit	
• at maximum AC-1 rated value	95 mm²
Operating current for approx. 200000 operating cycles at AC-4	
● at 400 V rated value	68 A
● at 690 V rated value	57 A
Operating current	
• at 1 current path at DC-1	400 A
— at 24 V rated value	160 A
— at 110 V rated value	18 A
— at 220 V rated value	3.4 A
— at 440 V rated value	0.8 A 0.5 A
— at 600 V rated value	0.071

• with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 110 V rated value — at 120 V rated value — at 120 V rated value — at 120 V rated value — at 24 V rated value — at 25 V rated value — at 2600 V rated value — at 2600 V rated value — at 27 V rated value — at 28 V rated value — at 29 V rated value — at 29 V rated value — at 110 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 120 V rated value — at 120 V rated value — at 120 V rated value — at 110 V rated value — at 220 V rated value — at 400 V rated value — at 220 V rated value — at 600 V		
- at 110 V rated value	 with 2 current paths in series at DC-1 	
- at 220 V rated value 3.2 A - at 400 V rated value 3.2 A - at 600 V rated value 1.6 A • with 3 current paths in series at DC-1 - at 224 V rated value 160 A - at 110 V rated value 160 A - at 220 V rated value 150 A - at 220 V rated value 150 A - at 440 V rated value 11.5 A - at 450 V rated value 4 A Operating current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 2.5 A - at 120 V rated value 0.6 A - at 110 V rated value 0.6 A - at 140 V rated value 0.17 A - at 600 V rated value 0.17 A - at 600 V rated value 0.12 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 160 A - at 140 V rated value 160 A - at 140 V rated value 160 A - at 140 V rated value 160 A - at 600 V rated value 160 A - at 600 V rated value 160 A - at 140 V rated value 160 A - at 140 V rated value 160 A - at 140 V rated value 160 A - at 120 V rated value 160 A - at 140 V rated value 160 A - at 24 V rated value 160 A - at 24 V rated value 160 A - at 250 V rated value 160 A - at 260 V rated value 160 A - at 27 V rated value 160 A - at 27 V rated value 160 A - at 280 V rated value 160 A - at 440 V rated	— at 24 V rated value	160 A
- at 440 V rated value 1.6 A • with 3 current paths in series at DC-1 - at 24 V rated value 160 A - at 110 V rated value 160 A - at 120 V rated value 160 A - at 220 V rated value 150 A - at 240 V rated value 155 A - at 500 V rated value 11.5 A - at 500 V rated value 11.5 A - at 500 V rated value 160 A Operating current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 160 A - at 120 V rated value 160 A - at 220 V rated value 160 A - at 440 V rated value 160 A - at 440 V rated value 17 A - at 500 V rated value 17 A - at 500 V rated value 17 A - at 110 V rated value 160 A - at 220 V rated value 160 A - at 220 V rated value 160 A - at 240 V rated value 160 A - at 440 V rated value 160 A - at 220 V rated value 160 A - at 400 V rated value 175 kW - at 400 V rated value 105 kW - at 400 V rated value 181 kW - at 690 V rated value 181 kW - at 690 V rated value 181 kW - at 600 V rated value 148 kW • at AC-2 at 400 V rated value 75 kW	— at 110 V rated value	160 A
 at 600 V rated value with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 600 V rated value — at 7 content path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value — at 140 V rated value — at 24 V rated value — at 25 A — at 440 V rated value — at 600 V rated value — at 720 V rated value — at 100 V rated value — at 600 V rated value — at 220 V rated value — at 600 V ra	— at 220 V rated value	20 A
• with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value — at 70 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 120 V rated value — at 120 V rated value — at 600 V rated value — at 220 V rated value — at 100 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value — at 220 V rated value — at 220 V rated value — at 110 V rated value — at 220 V rated value — at 110 V rated value — at 110 V rated value — at 110 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	— at 440 V rated value	3.2 A
- at 24 V rated value 160 A - at 110 V rated value 160 A - at 1220 V rated value 160 A - at 220 V rated value 11.5 A - at 440 V rated value 11.5 A - at 440 V rated value 4 A Operating curent • at 1 current path at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 2.5 A - at 120 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A • with 2 current paths in series at DC-3 at DC-5 - at 22 V rated value 160 A - at 110 V rated value 160 A - at 110 V rated value 2.5 A - at 220 V rated value 160 A - at 110 V rated value 160 A - at 110 V rated value 160 A - at 220 V rated value 2.5 A - at 440 V rated value 0.65 A - at 440 V rated value 0.65 A - at 440 V rated value 160 A - at 110 V rated value 160 A - at 110 V rated value 160 A - at 220 V rated value 160 A - at 230 V rated value 160 A - at 240 V rated value 150 KW - at 400 V rated value 105 kW - at 400 V rated value 105 kW - at 690 V rated value 181 kW - at 690 V rated value 148 kW - at AC-2 at 400 V rated value 148 kW	— at 600 V rated value	1.6 A
	 with 3 current paths in series at DC-1 	
- at 220 V rated value 11.5 A - at 600 V rated value 11.5 A - at 600 V rated value 4 A Operating current • at 1 current path at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.17 A - at 600 V rated value 160 A - at 24 V rated value 160 A - at 24 V rated value 160 A - at 24 V rated value 160 A - at 220 V rated value 0.65 A - at 440 V rated value 0.65 A - at 600 V rated value 160 A - at 220 V rated value 160 A - at 440 V rated value 160 A - at 690 V rated value 175 kW - at 400 V at 60 °C rated value 105 kW - at 400 V at 60 °C rated value 181 kW - at 690 V rated value 181 kW - at 690 V rated value 181 kW - at 400 V rated value 181 kW - at 400 V rated value 181 kW - at 400 V rated value 184 kW • at AC-2 at 400 V rated value 75 kW	— at 24 V rated value	160 A
	— at 110 V rated value	160 A
— at 600 V rated value 4 A Operating current ■ at 1 current path at DC-3 at DC-5 — at 24 V rated value 160 A — at 110 V rated value 0.6 A — at 440 V rated value 0.17 A — at 600 V rated value 0.12 A ■ with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 160 A — at 110 V rated value 160 A — at 110 V rated value 2.5 A — at 440 V rated value 0.65 A — at 440 V rated value 0.65 A — at 440 V rated value 0.65 A — at 220 V rated value 0.37 A ■ with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 160 A — at 220 V rated value 160 A — at 220 V rated value 160 A — at 440 V rated value 160 A — at 220 V rated value 160 A — at 110 V rated value 160 A — at 440 V rated value 160 A — at 220 V rated value 160 A — at 220 V rated value 160 A — at 440 V rated value 1.4 A — at 600 V rated value 1.4 A — at 600 V rated value 1.5 kW — at 400 V rated value 105 kW — at 400 V rated value 105 kW — at 400 V rated value 181 kW — at 690 V at 60 °C rated value 181 kW — at 690 V at 60 °C rated value 181 kW — at 400 V rated value 181 kW ■ at AC-2 at 400 V rated value 148 kW	— at 220 V rated value	160 A
Operating current ● at 1 current path at DC-3 at DC-5 — at 24 V rated value 160 A — at 110 V rated value 0.6 A — at 440 V rated value 0.17 A — at 600 V rated value 0.12 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 160 A — at 110 V rated value 160 A — at 220 V rated value 0.65 A — at 440 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 160 A — at 24 V rated value 160 A — at 110 V rated value 160 A — at 220 V rated value 160 A — at 220 V rated value 160 A — at 440 V rated value 150 A — at 440 V rated value 150 A — at 440 V rated value 150 A — at 400 V rated value 150 A — at 400 V rated value 150 A — at 400 V rated value 150 A <tr< th=""><th>— at 440 V rated value</th><th>11.5 A</th></tr<>	— at 440 V rated value	11.5 A
at 1 current path at DC-3 at DC-5 at 24 V rated value at 110 V rated value at 2.5 A at 220 V rated value at 440 V rated value other with 2 current paths in series at DC-3 at DC-5 at 24 V rated value intition of the value at 110 V rated value other with 2 current paths in series at DC-3 at DC-5 at 24 V rated value at 110 V rated value at 100 V rated value other with 3 current paths in series at DC-3 at DC-5 at 440 V rated value other with 3 current paths in series at DC-3 at DC-5 at 24 V rated value other with 3 current paths in series at DC-3 at DC-5 at 24 V rated value it 160 A at 110 V rated value it 60 A at 110 V rated value it 60 A at 440 V rated value it 60 A it 60 V rated value it 60 KW at 400 V rated value it 60 kW at 60 °C rated value it 60 kW at 60 °C rated value it 81 kW at 60 °C rated value it 81 kW at 60 °C rated value it 81 kW at AC-2 at 400 V rated value it 84 kW at AC-2 at 400 V rated value it 84 kW	— at 600 V rated value	4 A
- at 24 V rated value	Operating current	
- at 110 V rated value 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 0.17 A - at 600 V rated value 0.12 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 160 A - at 220 V rated value 2.5 A - at 440 V rated value 0.65 A - at 440 V rated value 0.65 A - at 600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 160 A - at 600 V rated value 160 A - at 220 V rated value 160 A - at 210 V rated value 160 A - at 220 V rated value 160 A - at 220 V rated value 160 A - at 230 V rated value 1.4 A - at 600 V rated value 0.75 A Operating power • at AC-1 - at 230 V at 60 °C rated value 105 kW - at 400 V rated value 105 kW - at 690 V rated value 181 kW - at 690 V rated value 181 kW - at 690 V rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at AC-2 at 400 V rated value 75 kW	• at 1 current path at DC-3 at DC-5	
— at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • 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 4600 V rated value — at 600 V rated value — at 600 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 220 V rated value — at 220 V rated value — at 440 V rated value — at 600 A — at 220 V rated value — at 220 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 — at 6	— at 24 V rated value	160 A
at 440 V rated value 0.17 A at 600 V rated value 0.12 A • with 2 current paths in series at DC-3 at DC-5 at 24 V rated value 160 A at 110 V rated value 2.5 A at 440 V rated value 0.65 A at 600 V rated value 0.65 A at 600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 160 A at 110 V rated value 160 A at 110 V rated value 160 A at 220 V rated value 160 A at 220 V rated value 160 A at 440 V rated value 160 A at 440 V rated value 1.4 A at 600 V rated value 0.75 A Operating power • at AC-1 at 230 V at 60 °C rated value 105 kW at 400 V rated value 181 kW at 690 V rated value 181 kW at 690 V rated value 181 kW at 690 V at 60 °C rated value 181 kW at 1000 V at 60 °C rated value 148 kW •- at 1000 V at 60 °C rated value 148 kW •- at 1000 V rated value 75 kW	— at 110 V rated value	2.5 A
 — at 600 V rated value ● 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 600 V rated value — at 600 V rated value — with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 75 A Operating power • at AC-1 — at 230 V at 60 °C rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 181 kW — at 690 V at 60 °C rated value — at 181 kW — at 1000 V at 60 °C rated value — at 148 kW • at AC-2 at 400 V rated value — 418 kW 	— at 220 V rated value	0.6 A
• 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 600 V rated value — at 24 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 110 V rated value — at 20 V rated value — at 440 V rated value — at 440 V rated value — at 460 V rated value — at 600 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 148 kW • at AC-2 at 400 V rated value 75 kW	— at 440 V rated value	0.17 A
at 24 V rated value 160 A at 110 V rated value 2.5 A at 440 V rated value 0.65 A at 600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 160 A at 110 V rated value 160 A at 110 V rated value 160 A at 220 V rated value 160 A at 220 V rated value 160 A at 440 V rated value 1.4 A at 600 V rated value 0.75 A Operating power • at AC-1 at 230 V at 60 °C rated value 105 kW at 400 V rated value 105 kW at 690 V rated value 181 kW at 690 V at 60 °C rated value 181 kW at 690 V at 60 °C rated value 181 kW at 1000 V at 60 °C rated value 181 kW at 1000 V at 60 °C rated value 181 kW at 1000 V at 60 °C rated value 181 kW at 1000 V at 60 °C rated value 181 kW at 1000 V at 60 °C rated value 181 kW at 1000 V at 60 °C rated value 184 kW	— at 600 V rated value	0.12 A
- at 110 V rated value 2.5 A - at 220 V rated value 0.65 A - at 440 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 160 A - at 110 V rated value 160 A - at 220 V rated value 160 A - at 220 V rated value 160 A - at 440 V rated value 1.4 A - at 600 V rated value 0.75 A Operating power • at AC-1 - at 230 V at 60 °C rated value 105 kW - at 400 V rated value 105 kW - at 400 V rated value 181 kW - at 690 V rated value 181 kW - at 690 V rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 148 kW • at AC-2 at 400 V rated value 75 kW	 with 2 current paths in series at DC-3 at DC-5 	
- at 220 V rated value 2.5 A - at 440 V rated value 0.65 A - at 600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 110 V rated value 160 A - at 220 V rated value 160 A - at 440 V rated value 1.4 A - at 600 V rated value 0.75 A Operating power • at AC-1 - at 230 V at 60 °C rated value 60 kW - at 400 V rated value 105 kW - at 400 V at 60 °C rated value 181 kW - at 690 V at 60 °C rated value 181 kW - at 690 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 181 kW - at 1000 V at 60 °C rated value 188 kW • at AC-2 at 400 V rated value 148 kW • at AC-2 at 400 V rated value 75 kW	— at 24 V rated value	160 A
- at 440 V rated value - at 600 V rated value - at 600 V rated value • with 3 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 600 V rated value - at 600 V rated value - at 4C-1 - at 230 V at 60 °C rated value - at 400 V at 60 °C rated value - at 690 V rated value - at 1000 V rated value	— at 110 V rated value	160 A
 — at 600 V rated value ● with 3 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 — 160 A — at 220 V rated value — 160 A — at 440 V rated value — 200 V rated value <	— at 220 V rated value	2.5 A
 with 3 current paths in series at DC-3 at DC-5 at 24 V rated value at 110 V rated value 160 A at 220 V rated value 160 A at 440 V rated value 1.4 A at 600 V rated value 0.75 A Operating power at AC-1 at 230 V at 60 °C rated value at 400 V rated value at 400 V at 60 °C rated value at 690 V rated value at 690 V rated value at 690 V at 60 °C rated value at 690 V at 60 °C rated value at 181 kW at 1000 V at 60 °C rated value 148 kW at AC-2 at 400 V rated value 5 kW	— at 440 V rated value	0.65 A
— 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 600 V rated value • at AC-1 — at 230 V at 60 °C rated value — at 400 V rated value — at 400 V at 60 °C rated value — at 690 V at 60 °C rated value — at 690 V at 60 °C rated value — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value • at AC-2 at 400 V rated value • at AC-2 at 400 V rated value • at AC-2 at 400 V rated value 75 kW	— at 600 V rated value	0.37 A
- at 110 V rated value 160 A - at 220 V rated value 160 A - at 440 V rated value 1.4 A - at 600 V rated value 0.75 A Operating power	 with 3 current paths in series at DC-3 at DC-5 	
— at 220 V rated value 160 A — at 440 V rated value 1.4 A — at 600 V rated value 0.75 A Operating power • at AC-1 — at 230 V at 60 °C rated value 60 kW — at 400 V rated value 105 kW — at 400 V at 60 °C rated value 105 kW — at 690 V rated value 181 kW — at 690 V at 60 °C rated value 181 kW — at 1000 V at 60 °C rated value 184 kW • at AC-2 at 400 V rated value 75 kW	— at 24 V rated value	160 A
— at 440 V rated value 1.4 A — at 600 V rated value 0.75 A Operating power ■ at AC-1 — at 230 V at 60 °C rated value 60 kW — at 400 V rated value 105 kW — at 400 V at 60 °C rated value 105 kW — at 690 V rated value 181 kW — at 690 V at 60 °C rated value 181 kW — at 1000 V at 60 °C rated value 148 kW ■ at AC-2 at 400 V rated value 75 kW	— at 110 V rated value	160 A
— at 600 V rated value 0.75 A Operating power ■ at AC-1 — at 230 V at 60 °C rated value 60 kW — at 400 V rated value 105 kW — at 400 V at 60 °C rated value 105 kW — at 690 V rated value 181 kW — at 690 V at 60 °C rated value 181 kW — at 1000 V at 60 °C rated value 148 kW ■ at AC-2 at 400 V rated value 75 kW	— at 220 V rated value	160 A
Operating power • at AC-1 — at 230 V at 60 °C rated value 60 kW — at 400 V rated value 105 kW — at 400 V at 60 °C rated value 105 kW — at 690 V rated value 181 kW — at 690 V at 60 °C rated value 181 kW — at 1000 V at 60 °C rated value 148 kW • at AC-2 at 400 V rated value 75 kW	— at 440 V rated value	1.4 A
 at AC-1 — at 230 V at 60 °C rated value 60 kW — at 400 V rated value 105 kW — at 400 V at 60 °C rated value 105 kW — at 690 V rated value 181 kW — at 690 V at 60 °C rated value 181 kW — at 1000 V at 60 °C rated value 148 kW — at AC-2 at 400 V rated value 75 kW 	— at 600 V rated value	0.75 A
 — at 230 V at 60 °C rated value — at 400 V rated value — at 400 V at 60 °C rated value — at 690 V rated value — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value — at AC-2 at 400 V rated value 	Operating power	
 — at 400 V rated value — at 400 V at 60 °C rated value — at 690 V rated value — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value 148 kW • at AC-2 at 400 V rated value 75 kW 	• at AC-1	
 — at 400 V at 60 °C rated value — at 690 V rated value — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value — at 1000 V at 60 °C rated value 148 kW • at AC-2 at 400 V rated value 75 kW 	— at 230 V at 60 °C rated value	60 kW
 — at 690 V rated value — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value — at AC-2 at 400 V rated value 181 kW — 148 kW — 148 kW 	— at 400 V rated value	105 kW
 — at 690 V at 60 °C rated value — at 1000 V at 60 °C rated value 148 kW • at AC-2 at 400 V rated value 75 kW 	— at 400 V at 60 °C rated value	
 — at 1000 V at 60 °C rated value 148 kW • at AC-2 at 400 V rated value 75 kW 	— at 690 V rated value	
• at AC-2 at 400 V rated value 75 kW	— at 690 V at 60 °C rated value	
	— at 1000 V at 60 °C rated value	
• at AC-3	● at AC-2 at 400 V rated value	75 kW
	• at AC-3	

— at 230 V rated value	45 kW
— at 400 V rated value	75 kW
— at 500 V rated value	90 kW
— at 690 V rated value	132 kW
— at 1000 V rated value	90 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	38 kW
• at 690 V rated value	55 kW
Short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	2 727 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	1 831 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	1 300 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	850 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	703 A; Use minimum cross-section acc. to AC-1 rated value
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
■ at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	
• at 50 Hz rated value	110 127 V
• at 60 Hz rated value	110 127 V
Control supply voltage at DC	
• rated value	110 127 V
Operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated value of magnet coil at AC	
● at 50 Hz	0.8 1.1

● at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	
● at 50 Hz	300 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.9
Apparent holding power of magnet coil at AC	
● at 50 Hz	5.8 V·A
Inductive power factor with the holding power of the coil	
● at 50 Hz	0.8
Closing power of magnet coil at DC	360 W
Holding power of magnet coil at DC	5.2 W
Closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
Opening delay	
• at AC	40 60 ms
• at DC	40 60 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Auxiliary circuit Number of NC contacts for auxiliary contacts	
	2
Number of NC contacts for auxiliary contacts	2
Number of NC contacts for auxiliary contacts • instantaneous contact	2
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts	
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact	2
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum	2
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15	2 10 A
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value	2 10 A 6 A
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value	2 10 A 6 A 3 A
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	2 10 A 6 A 3 A 2 A
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	2 10 A 6 A 3 A 2 A
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value Operating current at DC-12	2 10 A 6 A 3 A 2 A 1 A
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value Operating current at DC-12 at 24 V rated value	2 10 A 6 A 3 A 2 A 1 A
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 48 V rated value	2 10 A 6 A 3 A 2 A 1 A
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value out 690 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 24 V rated value at 48 V rated value at 60 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A
Number of NC contacts for auxiliary contacts • instantaneous contact Number of NO contacts for auxiliary contacts • instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value Operating current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A
Number of NC contacts for auxiliary contacts instantaneous contact Number of NO contacts for auxiliary contacts instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 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 three-phase AC motor	
• at 480 V rated value	156 A
• at 600 V rated value	144 A
Yielded mechanical performance [hp]	
for single-phase AC motor	
— at 230 V rated value	30 hp
• for three-phase AC motor	
— at 200/208 V rated value	50 hp
— at 220/230 V rated value	60 hp
— at 460/480 V rated value	125 hp
— at 575/600 V rated value	150 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600

Short-circuit protection

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 355 A (690 V, 100 kA)

gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315

A (415 V, 50 kA)

gG: 10 A (500 V, 1 kA)

nstallation/ mounting/ dimensions	
Mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	172 mm
Width	120 mm
Depth	170 mm
Required spacing	
with side-by-side mounting	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm

— at the side	0 mm
• for grounded parts	
— 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

— at the side	10 mm
Connections/ Terminals	
Type of electrical connection	
for main current circuit	box terminal
 for auxiliary and control current 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	
— stranded	max. 1x 95, 1x 120 mm²
 finely stranded with core end processing 	max. 1x 95, 1x 120 mm ²
 finely stranded without core end processing 	max. 1x 95, 1x 120 mm²
 at AWG conductors for main contacts 	2x 1/0
Connectable conductor cross-section for main contacts	
• stranded	16 70 mm²
 finely stranded with core end processing 	16 70 mm²
 finely stranded without core end processing 	16 70 mm²
Connectable conductor cross-section for auxiliary contacts	
 single or multi-stranded 	0.5 4 mm²
 finely stranded with core end processing 	0.5 2.5 mm²
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross section	
• for auxiliary contacts	18 14

Safety related data							
B10 value							
 with high demand rate acc. to SN 31920 	1 000 000						
Product function							
 Mirror contact acc. to IEC 60947-4-1 	Yes						
positively driven operation acc. to IEC 60947-5-	No						
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529						

Certificates/ approvals

General Product Approval EMC Functional Safety/Safety of Machinery











Type Examination Certificate

П	ec	lar	ati	ior	ı of	С	OI	nfc	rn	nit	ν
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Test Certificates

Marine / Shipping



Miscellaneous

Special Test Certificate

Type Test Certificates/Test Report





Marine / Ship- ping	other		Railway	
	Confirmation	Missellenseus	Chariel Test Corti	



Confirmation

Miscellaneous

Special Test Certificate

Further information

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

www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1055-1AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-1AF36

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

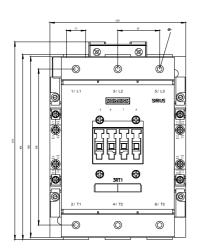
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-1AF36

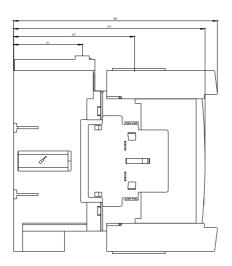
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-1AF36&lang=en

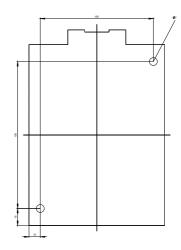
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-1AF36/char

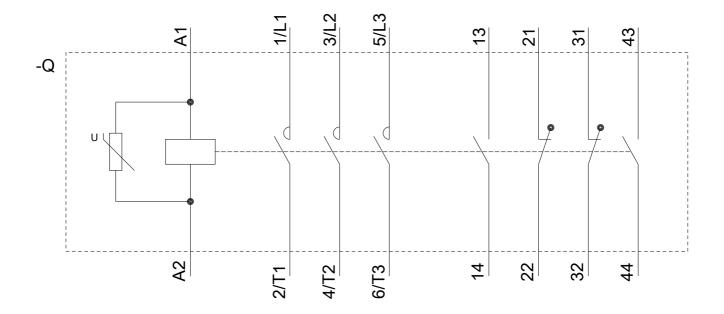
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-1AF36&objecttype=14&gridview=view1









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