SIEMENS

Data sheet 3RT1055-6AB36

Power contactor, AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar connections Drive: conventional



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

S6
No
Yes
27 W
9 W
5.2 W
8 kV
6 kV
690 V

Protection class IP	
• on the front	IP00; IP20 on the front with cover / box terminal
of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
Shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	К
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
during operation	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
 at AC-3 rated value maximum 	1 000 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	185 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	185 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	160 A
— up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	90 A
— up to 1000 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	90 A
• at AC-2 at 400 V rated value	150 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	
— 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 1600 V rated value — at 170 V rated value — at 220 V rated value — at 400 V rated value — at 220 V rated value —		
- 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 27 V rated value 160 A - at 28 0 V rated value 160 A - at 28 0 V rated value 160 A - at 28 0 V rated value 160 A - at 29 V rated value 160 A - at 20 V rated value 160 A - at 440 V rated value 160 A	— 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 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 220 V rated value — at 120 V rated value — at 600 V rated value — at 600 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 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 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 181 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 Operating power • at AC-1 - at 230 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 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 W at 400 V rated value it 60 kW at 60 °C rated value it 81 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 400 V rated value — at 400 V rated value — at 600 V rated value —	— 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 AC-2 at 400 V rated value 75 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 — 14 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 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 rated value — at 400 V rated value — at 1000 V rated value — at 400 V rated value — at 400 V rated value — 35 kW — 400 V rated value — 400 V rated v	— 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 181 kW — at 1000 V at 60 °C 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 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	

45 kW
75 kW
90 kW
132 kW
90 kW
38 kW
55 kW
2 000 1/h
2 000 1/h
800 1/h
300 1/h
750 1/h
130 1/h
AC/DC
AC/DC
AC/DC 23 26 V
23 26 V
23 26 V
23 26 V 23 26 V
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23 26 V 23 26 V 23 26 V
23 26 V 23 26 V 23 26 V 0.8 1.1
23 26 V 23 26 V 23 26 V 0.8 1.1
23 26 V 23 26 V 23 26 V 0.8 1.1
23 26 V 23 26 V 23 26 V 0.8 1.1

coil

• at 50 Hz

• at 50 Hz

• at 50 Hz

Inductive power factor with closing power of the coil

Inductive power factor with the holding power of the

Apparent holding power of magnet coil at AC

0.9

8.0

5.8 V·A

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	
Number of NC contacts for auxiliary contacts	
• instantaneous contact	2
Number of NO contacts for auxiliary contacts	
• instantaneous contact	2
Operating current at AC-12 maximum	10 A
Operating 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
Operating 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
Operating 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 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 111111

Connections/ Terminals	
Type of electrical connection	
• for main current circuit	Connection bar
 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	
 at AWG conductors for main contacts 	4 250 kcmil
Connectable conductor cross-section for main contacts	
• stranded	25 120 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

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

ABS

Declaration of Conformity Test Certificates					
CE	Miscellaneous	Special Test Certificate	Type Test Certificates/Test Report	Miscellaneous	OS SHIPT O

other

Railway



EG-Konf.



Confirmation

Miscellaneous

Special Test Certificate

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1055-6AB36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-6AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AB36

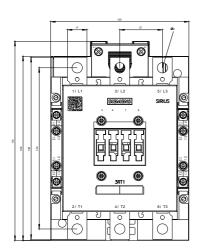
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1055-6AB36&lang=en

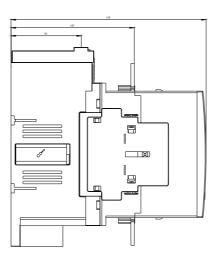
Characteristic: Tripping characteristics, I2t, Let-through current

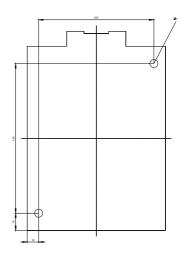
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6AB36/char

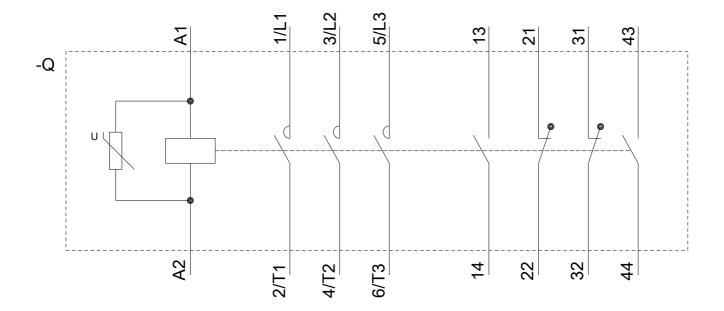
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6AB36&objecttype=14&gridview=view1









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