# **SIEMENS**

### Data sheet

### 3RT1054-6AB36

CONTACTOR, 55KW/400V/AC-3, AC(50...60HZ)/DC OPERATION UC 23...26V AUX. CONTACTS 2NO+2NC, 3-POLE, SIZE S6 BAR CONNECTIONS CONVENTIONAL OPERATING MECHAN. SCREW TERMINAL



Figure similar

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S6
Product extension	
<ul> <li>function module for communication</li> </ul>	No
<ul> <li>Auxiliary switch</li> </ul>	Yes
Insulation voltage	
• rated value	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
<ul> <li>between coil and main contacts acc. to EN</li> </ul>	690 V
60947-1	
Protection class IP	
• on the front	IP00

• 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)	
<ul> <li>of contactor typical</li> </ul>	10 000 000
<ul> <li>of the contactor with added electronics- compatible auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
mbient conditions	
Ambient temperature	
• during operation	-25 +60 °C
• during storage	-55 +80 °C
lain circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	1 000 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	160 A
● at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	160 A
— up to 690 V at ambient temperature 60 °C rated value	140 A
— up to 1000 V at ambient temperature 40 °C rated value	80 A
— up to 1000 V at ambient temperature 60 °C rated value	80 A
• at AC-2 at 400 V rated value	115 A
• at AC-3	
— at 400 V rated value	115 A
— at 500 V rated value	115 A
	115 A
— at 690 V rated value	
— at 690 V rated value	

• at 40 °C minimum permissible70 mm²Operating current for approx. 20000 operating cycles at AC-454 A• at 400 V rated value54 A• at 600 V rated value48 AOperating current-• at 100 V rated value160 A- at 24 V rated value160 A- at 240 V rated value0.8 A- at 420 V rated value0.6 A- at 420 V rated value0.6 A- at 420 V rated value160 A- at 420 V rated value0.6 A- at 420 V rated value160 A- at 410 V rated value160 A- at 420 V rated value160 A <t< th=""><th>• at 60 °C minimum permissible</th><th>50 mm<sup>2</sup></th></t<>	• at 60 °C minimum permissible	50 mm <sup>2</sup>
Operating current for approx. 200000 operating cycles at AC-4         State           • at 400 V rated value         54 A           • at 600 V rated value         48 A           Operating current         -           • at 100 V rated value         160 A		70 mm <sup>2</sup>
• at 400 V rated value         54 Å           • at 690 V rated value         48 Å           Operating current         -           • at 1 current path at DC-1         -           - at 24 V rated value         160 Å           at 110 V rated value         18 Å           - at 220 V rated value         0.8 Å           - at 440 V rated value         0.8 Å           - at 600 V rated value         0.8 Å           - at 600 V rated value         160 Å           - at 22 V rated value         160 Å           - at 24 V rated value         160 Å           - at 40 V rated value         20 Å           - at 40 V rated value         160 Å           - at 40 V rated value         160 Å           - at 400 V rated value         160 Å           - at 20 V rated value         160 Å	·	
• at 680 V rated value         48 A           Operating current         -           • at 1 current path at DC-1         -           - at 24 V rated value         160 A           - at 220 V rated value         3.4 A           - at 220 V rated value         0.8 A           - at 440 V rated value         0.8 A           - at 400 V rated value         0.5 A           • with 2 current paths in series at DC-1         -           - at 240 V rated value         160 A           - at 240 V rated value         0.8 A           - at 100 V rated value         160 A           - at 200 V rated value         20 A           - at 410 V rated value         160 A           - at 200 V rated value         160 A           - at 200 V rated value         160 A           - at 24 V rated value         160 A           - at 24 V rated value         160 A           - at 200 V rated value         100 A           - at 200 V rated value         100 A           - at 200 V rated value         101 A	cycles at AC-4	
Operating current         Instrument path at DC-1           - at 24 V rated value         160 A           - at 10 V rated value         18 A           - at 240 V rated value         3.4 A           - at 440 V rated value         0.8 A           - at 440 V rated value         0.5 A           • with 2 current paths in series at DC-1         -           - at 220 V rated value         160 A           - at 220 V rated value         20 A           - at 220 V rated value         160 A           - at 400 V rated value         160 A           - at 410 V rated value         160 A           - at 220 V rated value         160 A           - at 24 V rated value         160 A           - at 24 V rated value	• at 400 V rated value	54 A
• at 1 current path at DC-1         I60 A           - at 24 V rated value         160 A           - at 110 V rated value         18 A           - at 220 V rated value         34 A           - at 220 V rated value         0.8 A           - at 400 V rated value         0.5 A           - at 200 V rated value         160 A           - at 21 V rated value         160 A           - at 22 V rated value         20 A           - at 22 V rated value         160 A           - at 600 V rated value         160 A           - at 22 V rated value         160 A           - at 40 V rated value         0.6 A           - at 40 V rated value         0.17 A	• at 690 V rated value	48 A
	Operating current	
- at 110 V rated value       18 A         - at 220 V rated value       3.4 A         - at 440 V rated value       0.8 A         - at 600 V rated value       0.5 A         • with 2 current paths in series at DC-1       -         - at 24 V rated value       160 A         - at 110 V rated value       160 A         - at 220 V rated value       20 A         - at 440 V rated value       3.2 A         - at 400 V rated value       3.2 A         - at 600 V rated value       160 A         - at 220 V rated value       160 A         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 420 V rated value       160 A         - at 420 V rated value       160 A         - at 420 V rated value       160 A         - at 400 V rated value       11.5 A         - at 400 V rated value       2.5 A         - at 400 V rated value       0.6 A         - at 440 V rated value       0.17 A         - at 400 V rated value       0.12 A         • with 2 current paths in series at DC-3 at DC-5       -         - at 440 V rated value       160 A         - at 440 V rated value	• at 1 current path at DC-1	
- at 220 V rated value       3.4 A         - at 440 V rated value       0.8 A         - at 600 V rated value       0.5 A         • with 2 current paths in series at DC-1       -         - at 24 V rated value       160 A         - at 200 V rated value       160 A         - at 200 V rated value       20 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 20 V rated value       160 A         - at 20 V rated value       160 A         - at 20 V rated value       160 A         - at 400 V rated value       100 A         - at 400 V rated value       100 A         - at 400 V rated value       100 A         - at 20 V rated value       0.6 A         - at 400 V rated value       0.17 A         - at 200 V rated value       0.10 A         - at 200 V rated value       0.10 A         - at 200 V rated value       0.10 A         - at 400 V rated value       0.17 A         - at 400 V rated value	— at 24 V rated value	160 A
	— at 110 V rated value	18 A
- at 600 V rated value       0.5 A         • with 2 current paths in series at DC-1       - at 24 V rated value         - at 24 V rated value       160 A         - at 110 V rated value       20 A         - at 440 V rated value       3.2 A         - at 600 V rated value       160 A         - at 24 V rated value       160 A         - at 420 V rated value       160 A         - at 600 V rated value       140 A         - at 600 V rated value       15 A         - at 600 V rated value       15 A         - at 410 V rated value       160 A         - at 220 V rated value       160 A         - at 410 V rated value       160 A         - at 220 V rated value       160 A         - at 4110 V rated value       1	— at 220 V rated value	3.4 A
<ul> <li>with 2 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>160 A</li> <li>at 220 V rated value</li> <li>20 A</li> <li>at 440 V rated value</li> <li>32 A</li> <li>at 600 V rated value</li> <li>1.6 A</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>160 A</li> <li>at 220 V rated value</li> <li>160 A</li> <li>at 440 V rated value</li> <li>160 A</li> <li>at 1 current path at DC-3 at DC-5</li> <li>at 220 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.17 A</li> <li>at 600 V rated value</li> <li>0.12 A</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>0.12 A</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 220 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.17 A</li> <li>at 600 V rated value</li> <li>0.17 A</li> <li>at 600 V rated value</li> <li>0.17 A</li> <li>at 440 V rated value</li> <li>0.17 A</li> <li>at 210 V rated value</li> <li>0.17 A</li> <li>at 220 V rated value</li> <li>0.17 A</li> <li>at 440 V rated value</li> <li>160 A</li> <li>at 220 V rated value</li> <li>160 A</li> <li>at 440 V rated value<th>— at 440 V rated value</th><th>0.8 A</th></li></ul>	— at 440 V rated value	0.8 A
- at 24 V rated value       160 A         - at 110 V rated value       160 A         - at 220 V rated value       20 A         - at 440 V rated value       3.2 A         - at 600 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 220 V rated value       160 A         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 600 V rated value       160 A         - at 600 V rated value       11.5 A         - at 600 V rated value       160 A         - at 110 V rated value       160 A         - at 24 V rated value       160 A         - at 24 V rated value       160 A         - at 24 V rated value       0.6 A         - at 200 V rated value       0.17 A         - at 200 V rated value       160 A         - at 210 V rated value       0.16 A         - at 220 V rated value       0.16 A         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 440 V rated value       0.65 A	— at 600 V rated value	0.5 A
- at 110 V rated value       160 A         - at 220 V rated value       20 A         - at 440 V rated value       3.2 A         - at 600 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 20 V rated value       160 A         - at 440 V rated value       160 A         - at 220 V rated value       160 A         - at 440 V rated value       160 A         - at 600 V rated value       160 A         - at 440 V rated value       160 A         - at 600 V rated value       160 A         - at 600 V rated value       100 A         - at 440 V rated value       160 A         - at 220 V rated value       0.6 A         - at 110 V rated value       0.6 A         - at 440 V rated value       0.12 A         • with 2 current paths in series at DC-3 at DC-5       -         - at 220 V rated value       160 A         - at 220 V rated value       0.12 A         • with 2 current paths in series at DC-3 at DC-5       -         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 440	<ul> <li>with 2 current paths in series at DC-1</li> </ul>	
<ul> <li>at 10 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>32 A</li> <li>at 600 V rated value</li> <li>16 A</li> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>160 A</li> <li>at 220 V rated value</li> <li>160 A</li> <li>at 440 V rated value</li> <li>160 A</li> <li>at 220 V rated value</li> <li>160 A</li> <li>at 440 V rated value</li> <li>160 A</li> <li>at 440 V rated value</li> <li>160 A</li> <li>at 220 V rated value</li> <li>160 A</li> <li>at 220 V rated value</li> <li>160 A</li> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.17 A</li> <li>at 600 V rated value</li> <li>0.12 A</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.6 A</li> <li>at 220 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.65 A</li> <li>at 440 V rated value</li> <li< th=""><th>— at 24 V rated value</th><th>160 A</th></li<></ul>	— at 24 V rated value	160 A
	— at 110 V rated value	160 A
<ul> <li>at 100 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 210 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 400 V rated value</li> <li>at 600 V rated value</li> <li>at 10 V rated value</li> <li>at 10 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 10 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rate</li></ul>	— at 220 V rated value	20 A
<ul> <li>with 3 current paths in series at DC-1         <ul> <li>at 24 V rated value</li> <li>at 21 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 600 V rated value</li> </ul> </li> <li>at 600 V rated value</li> <li>5 A</li> <li>at 600 V rated value</li> <li>60 A</li> <li>at 10 V rated value</li> <li>60 A</li> <li>at 600 V rated value</li> <li>60 A</li> <li>at 600 V rated value</li> <li>60 A</li> <li>at 10 V rated value</li> <li>160 A</li> <li>at 24 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.17 A</li> <li>at 600 V rated value</li> <li>0.12 A</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>160 A</li> <li>at 10 V rated value</li> <li>0.12 A</li> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>0.60 A</li> <li>at 110 V rated value</li> <li>0.60 A</li> <li>at 24 V rated value</li> <li>0.60 A</li> <li>at 440 V rated value</li> <li>0.60 A</li> <li>at 440 V rated value</li> <li>0.65 A</li> <li>at 440 V rated value</li> <li>0.65 A</li> <li>at 600 V rated value</li> <li>0.37 A</li> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>0.60 A</li> </ul>	— at 440 V rated value	3.2 A
- 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       11.5 A         - at 600 V rated value       4 A         Operating current         - at 220 V rated value       160 A         - at 10 V rated value       160 A         - at 24 V rated value       160 A         - at 24 V rated value       160 A         - at 220 V rated value       0.6 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         - at 220 V rated value       0.60 A         - at 110 V rated value       160 A         - at 220 V rated value       0.12 A         - at 220 V rated value       160 A         - at 220 V rated value       0.65 A         - at 220 V rated value       0.65 A         - at 220 V rated value       0.65 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         - at 600 V rated value       0.65 A         - at 600 V rated value       0.65 A	— at 600 V rated value	1.6 A
at 110 V rated value       160 A         at 220 V rated value       160 A         at 440 V rated value       11.5 A         at 600 V rated value       4 A         Operating current         at 10 V rated value       160 A         at 24 V rated value       160 A         at 24 V rated value       160 A         at 24 V rated value       0.6 A         at 220 V rated value       0.6 A         at 240 V rated value       0.17 A         at 24 V rated value       0.12 A         at 24 V rated value       160 A         at 240 V rated value       160 A         at 240 V rated value       0.12 A         at 240 V rated value       160 A         at 220 V rated value       160 A         at 240 V rated value       160 A         at 240 V rated value       160 A         at 240 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       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	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
- at 220 V rated value       160 A         - at 440 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 220 V rated value       160 A         - at 24 V rated value       160 A         - at 24 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 440 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 440 V rated value       0.65 A         - at 400 V rated value       0.37 A         • with 3 current paths	— at 24 V rated value	160 A
at 440 V rated value11.5 A at 600 V rated value4 AOperating current	— at 110 V rated value	160 A
at 600 V rated value4 AOperating current-• at 1 current path at DC-3 at DC-5 at 24 V rated value160 A at 110 V rated value0.6 A at 220 V rated value0.17 A at 600 V rated value0.12 A• at 600 V rated value160 A at 24 V rated value0.12 A• at 220 V rated value0.12 A• with 2 current paths in series at DC-3 at DC-5 at 24 V rated value160 A at 24 V rated value0.65 A at 440 V rated value0.65 A at 440 V rated value0.65 A at 600 V rated value0.65 A at 600 V rated value0.65 A at 24 V rated value160 A at 24 V rated value165 A at 24 V rated value160 A at 24 V rated value165 A at 24 V rated value160 A	— at 220 V rated value	160 A
Operating currentImage: constraint of the end of the	— at 440 V rated value	11.5 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 25 A</li> <li>at 220 V rated value</li> <li>0.6 A</li> <li>at 440 V rated value</li> <li>0.17 A</li> <li>at 600 V rated value</li> <li>0.12 A</li> </ul> • with 2 current paths in series at DC-3 at DC-5 <ul> <li>at 24 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>0.65 A</li> <li>at 440 V rated value</li> <li>0.65 A</li> <li>at 600 V rated value</li> <li>0.37 A</li> </ul>	— at 600 V rated value	4 A
at 24 V rated value160 A at 110 V rated value2.5 A at 220 V rated value0.6 A at 440 V rated value0.17 A at 600 V rated value0.12 A• with 2 current paths in series at DC-3 at DC-5	Operating current	
- at 110 V rated value2.5 A- at 220 V rated value0.6 A- at 440 V rated value0.17 A- at 600 V rated value0.12 A• with 2 current paths in series at DC-3 at DC-5 at 24 V rated value160 A- at 110 V rated value160 A- at 440 V rated value0.65 A- at 440 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value160 A	• at 1 current path at DC-3 at DC-5	
- at 220 V rated value0.6 A- at 440 V rated value0.17 A- at 600 V rated value0.12 A• with 2 current paths in series at DC-3 at DC-5 at 24 V rated value160 A- at 110 V rated value160 A- at 220 V rated value0.65 A- at 600 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value160 A	— 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       160 A         at 220 V rated value       0.65 A         at 600 V rated value       0.65 A         at 600 V rated value       0.37 A         at 24 V rated value       160 A	— at 110 V rated value	2.5 A
at 600 V rated value0.12 A• with 2 current paths in series at DC-3 at DC-5 at 24 V rated value160 A at 110 V rated value160 A at 220 V rated value2.5 A at 440 V rated value0.65 A at 600 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value160 A	— at 220 V rated value	0.6 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>0.65 A</li> <li>at 600 V rated value</li> <li>0.37 A</li> </ul>	— at 440 V rated value	0.17 A
- at 24 V rated value160 A- at 110 V rated value160 A- at 220 V rated value2.5 A- at 440 V rated value0.65 A- at 600 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5160 A- at 24 V rated value160 A	— at 600 V rated value	0.12 A
- at 110 V rated value160 A- at 220 V rated value2.5 A- at 440 V rated value0.65 A- at 600 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5160 A	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
at 220 V rated value2.5 A at 440 V rated value0.65 A at 600 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5	— at 24 V rated value	160 A
- at 440 V rated value0.65 A- at 600 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5- at 24 V rated value160 A	— at 110 V rated value	160 A
at 600 V rated value0.37 A• with 3 current paths in series at DC-3 at DC-5160 A	— at 220 V rated value	2.5 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>160 A</li> </ul>	— at 440 V rated value	0.65 A
— at 24 V rated value 160 A	— at 600 V rated value	0.37 A
	<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
- at 110 V rated value 160 A	— 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	53 kW
— at 400 V rated value	92 kW
— at 400 V at 60 °C rated value	92 kW
— at 690 V rated value	159 kW
— at 690 V at 60 °C rated value	159 kW
— at 1000 V at 60 °C rated value	131 kW
• at AC-2 at 400 V rated value	55 kW
• at AC-3	
— at 230 V rated value	37 kW
— at 400 V rated value	55 kW
— at 500 V rated value	75 kW
— at 690 V rated value	110 kW
— at 1000 V rated value	75 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	29 kW
• at 690 V rated value	48 kW
Thermal short-time current limited to 10 s	1 100 A
Power loss [W] at AC-3 at 400 V for rated value of	7 W
the operating current per conductor 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	400 1/h
• at AC-3 maximum	1 000 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	22 26.1/
at 50 Hz rated value	23 26 V 23 26 V
at 60 Hz rated value	23 20 V
Control supply voltage at DC     • rated value	23 26 V
Prated Value     Operating range factor control supply voltage rated	
value of magnet coil at AC	
<b>v</b> ••••••	

e et 50 Hz	0.8 1.1
• at 50 Hz	
• 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	20 05 mg
• 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	Standard A1 - A2
	Standard A1 - A2
Auxiliary circuit	Standard A1 - A2
Auxiliary circuit Number of NC contacts	Standard A1 - A2
Auxiliary circuit Number of NC contacts  • for auxiliary contacts	
Auxiliary circuit Number of NC contacts  • for auxiliary contacts — instantaneous contact	
Auxiliary circuit Number of NC contacts  • for auxiliary contacts — instantaneous contact Number of NO contacts	
Auxiliary circuit Number of NC contacts  • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts	2
Auxiliary circuit          Number of NC contacts         • for auxiliary contacts         — instantaneous contact         Number of NO contacts         • for auxiliary contacts	2
Auxiliary circuit 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
Auxiliary circuit          Number of NC contacts         • for auxiliary contacts         — instantaneous contact         Number of NO contacts         • for auxiliary contacts         • for auxiliary contacts         — instantaneous contact         Operating current at AC-12 maximum         Operating current at AC-15	2 2 10 A
Auxiliary circuit          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 2 10 A 6 A
Auxiliary circuit         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 2 10 A 6 A 3 A
Auxiliary circuit         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 500 V rated value	2 2 10 A 6 A 3 A 2 A
Auxiliary circuit         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 500 V rated value         • at 690 V rated value	2 2 10 A 6 A 3 A 2 A
Auxiliary circuit         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	2 2 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit         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 500 V rated value         • at 690 V rated value         • at 690 V rated value         • at 24 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A
Auxiliary circuit         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 500 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A
Auxiliary circuit         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 500 V rated value         • at 690 V rated value         • at 24 V rated value         • at 24 V rated value         • at 48 V rated value         • at 400 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A
Auxiliary circuit         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 500 V rated value         • at 690 V rated value         • at 48 V rated value         • at 48 V rated value         • at 48 V rated value         • at 60 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 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	124 A
• at 600 V rated value	125 A
Yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 230 V rated value	25 hp
<ul> <li>for three-phase AC motor</li> </ul>	
— at 200/208 V rated value	40 hp
— at 220/230 V rated value	50 hp
— at 460/480 V rated value	100 hp
— at 575/600 V rated value	125 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
Design of the fuse link	

<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	Fuse gG: 355 A
— with type of assignment 2 required	Fuse gG: 315 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 10 A
required	

## Installation/ mounting/ dimensions

Mounting position	+/-180° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
Mounting type	screw fixing
<ul> <li>Side-by-side mounting</li> </ul>	Yes
Height	172 mm
Width	120 mm
Depth	170 mm
Required spacing	
<ul> <li>for grounded parts</li> </ul>	

	9	10 mm		
Connections/Termir	nals			
Type of electrical co	nnection			
<ul> <li>for main currer</li> </ul>	nt circuit	screw-type terminals		
<ul> <li>for auxiliary an</li> </ul>	d control current circuit	screw-type terminals		
Type of connectable	conductor cross-sections			
<ul> <li>at AWG condu</li> </ul>	ctors for main contacts	4 250 kcmil		
Type of connectable	conductor cross-sections			
<ul> <li>for auxiliary co</li> </ul>	ntacts			
— solid	-		0.75 2.5 mm²), max	x. 2x (0.75 4 mm²)
— single or n	nulti-stranded	2x (0,5 1,5 mm²), 2x (	0,75 2,5 mm²), max	x. 2x (0,75 4 mm²)
_	nded with core end processing	2x (0.5 1.5 mm²), 2x (	0.75 2.5 mm²)	
-	ctors for auxiliary contacts	2x (20 16), 2x (18 <sup>2</sup>		
			<i>,,</i>	
Safety related data				
Product function				
<ul> <li>Mirror contact a</li> </ul>	acc. to IEC 60947-4-1	Yes		
<ul> <li>positively drive</li> </ul>	n operation acc. to IEC 60947-5	- No		
1				
Protection against el	ectrical shock	finger-safe when touche	d vertically from front	acc. to IEC 60529
Certificates/approva	ls			
General Product			Functional	Declaration of
	.,		Safety/Safety	Conformity
				<b>,</b>
<u> </u>	•		of Machinery	
(m)		C D F		(
	SP (h)	EAC	of Machinery Type Examination	CE
		EHC	of Machinery Type Examination	EG-Konf.
ccc		EAC	of Machinery Type Examination	CE
		EHC Marine / Shippi	of Machinery           Type Examination           Certificate	CE
Test Certificates		<b>ERE</b> Marine / Shippi	of Machinery           Type Examination           Certificate	CE
Test Certificates	Type Test Miscella	•••	of Machinery           Type Examination           Certificate	CE
Test Certificates		•••	of Machinery           Type Examination           Certificate	EG-Konf.
Test Certificates	Type Test Miscella Certificates/Test	•••	of Machinery           Type Examination           Certificate	CE
Test Certificates	Type Test Miscella Certificates/Test	neous	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates Special Test Certificate	Type Test Miscella Certificates/Test Report	neous	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates Special Test Certificate	Type Test Miscella Certificates/Test	neous	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates         Special Test         Certificate         Marine /         Shipping	Type Test Miscella Certificates/Test Report	neous ABS	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates Special Test Certificate	Type Test       Miscella         Certificates/Test       Miscella         Report       Miscella         other       Environ	neous ABS mental <u>Miscellaneous</u>	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates         Special Test         Certificate         Marine /         Shipping	Type Test Miscella Certificates/Test Report	neous ABS mental <u>Miscellaneous</u>	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates Special Test Certificate Marine / Shipping	Type Test       Miscella         Certificates/Test       Miscella         Report       Miscella         other       Environ	neous ABS mental <u>Miscellaneous</u>	of Machinery Type Examination Certificate	EG-Konf.

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Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

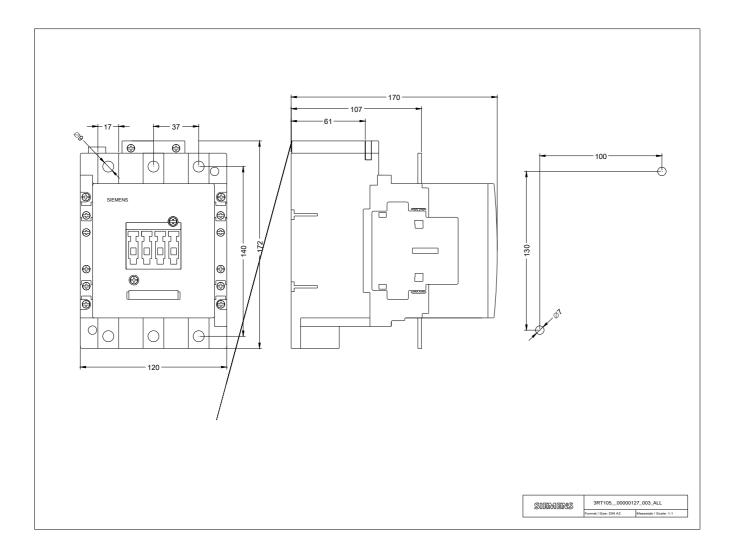
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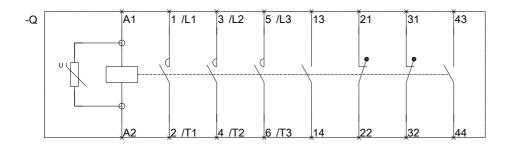
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6AB36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AB36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-6AB36&lang=en



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