# **SIEMENS**

# Data sheet

## 3RT1054-6NP36

CONTACTOR, 55KW/400V/AC-3, AC(50...60HZ)/DC OPERATION UC 200...277V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS ELECTRONIC OPERATING MECHANISM WITH PLC INTERFACE 24V DC 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
Auxiliary switch	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- at 440 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         100 A           - at 200 V rated value         100 A           - at 200 V rated value         100 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 440 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>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	2 000 1/h
• at AC	2 000 1/h
• at DC	
<ul> <li>Operating frequency</li> <li>at AC-1 maximum</li> </ul>	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	
• at 50 Hz rated value	200 277 V
• at 60 Hz rated value	200 277 V
Control supply voltage at DC	
• rated value	200 277 V
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	280 V·A
Inductive power factor with closing power of the coil	
● at 50 Hz	0.8
Apparent holding power of magnet coil at AC	
● at 50 Hz	4.4 V·A
Inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.5
Closing power of magnet coil at DC	320 W
Holding power of magnet coil at DC	2.8 W
Closing delay	
• at AC	35 75 ms
• at DC	35 75 ms
Opening delay	
• at AC	80 90 ms
● at DC	80 90 ms
Arcing time	10 15 ms
Auxiliary circuit	
Number of NC contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
-	
— instantaneous contact	2
	2
— instantaneous contact	2
— instantaneous contact Number of NO contacts	2
<ul> <li>instantaneous contact</li> <li>Number of NO contacts</li> <li>for auxiliary contacts</li> </ul>	
<ul> <li>instantaneous contact</li> <li>Number of NO contacts</li> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul>	2
<ul> <li>instantaneous contact</li> <li>Number of NO contacts</li> <li>for auxiliary contacts</li> <li>instantaneous contact</li> <li>Operating current at AC-12 maximum</li> </ul>	2
<ul> <li>instantaneous contact</li> <li>Number of NO contacts         <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15</li> </ul>	2 10 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts         <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15         <ul> <li>at 230 V rated value</li> </ul> </li> </ul>	2 10 A 6 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts         <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15         <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> </ul> </li> </ul>	2 10 A 6 A 3 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts         <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15         <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> </ul> </li> </ul>	2 10 A 6 A 3 A 2 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> </ul>	2 10 A 6 A 3 A 2 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts         <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15         <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>Operating current at DC-12</li> </ul>	2 10 A 6 A 3 A 2 A 1 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 24 V rated value</li> </ul> </li> </ul>	2 10 A 6 A 3 A 2 A 1 A 10 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> </ul> </li> </ul>	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A
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<ul> <li>instantaneous contact</li> <li>Number of NO contacts <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> </ul> </li> <li>Operating current at DC-12 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul> </li> </ul>	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A
<ul> <li>instantaneous contact</li> <li>Number of NO contacts <ul> <li>for auxiliary contacts</li> <li>instantaneous contact</li> </ul> </li> <li>Operating current at AC-12 maximum</li> <li>Operating current at AC-15 <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>at 690 V rated value</li> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> </ul> </li> </ul>	2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 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)

	atings
SA r	atings

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
<ul> <li>— with type of assignment 2 required</li> </ul>	Fuse gG: 315 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 10 A
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>	
— at the side	10 mm

onnections/Termination	als				
ype of electrical con	nection				
<ul> <li>for main current</li> </ul>	circuit		screw-type terminals		
<ul> <li>for auxiliary and</li> </ul>	control current cire	cuit	screw-type terminals		
ype of connectable	conductor cross-se	ctions			
<ul> <li>at AWG conduct</li> </ul>	tors for main conta	icts	4 250 kcmil		
ype of connectable	conductor cross-se	ctions			
<ul> <li>for auxiliary con</li> </ul>	tacts				
— solid — single or multi-stranded		2x (0.5 1.5 mm²), 2	2x (0.75 2.5 mm²), max	x. 2x (0.75 4 mr	
			2x (0,5 1,5 mm²), 2	2x (0,75 2,5 mm²), max	x. 2x (0,75 4 mr
— finely stran	ded with core end	processing	2x (0.5 1.5 mm²), 2	2x (0.75 2.5 mm²)	
<ul> <li>at AWG conduct</li> </ul>	tors for auxiliary co	ontacts	2x (20 16), 2x (18	14), 1x 12	
faturalatadatat		-			
fety related data		-			
	cc. to IEC 60947-4	-1	Yes		
	operation acc. to		No		
1		120 00947-0-			
rotection against ele	ctrical shock		finger-safe when touc	ched vertically from front	acc. to IEC 60529
-					
ertificates/approval					
General Product	Approval			Functional	Declaration of
				Safety/Safety	Conformity
				of Machinery	Conformity
(MC)			rnr		
	(SP)	(JL)	FAC	of Machinery Type Examination	CE
	CSA		EAC	of Machinery Type Examination	Conformity EG-Konf.
	CSA	UL	EAC	of Machinery Type Examination	CE
CCC Test Certificates	CSA	UL UL	ERE	of Machinery Type Examination	CE
	CSA Special Test		<b>ERE</b> ipping	of Machinery Type Examination	CE
Test Certificates	Special Test Certificate		ERC ipping	of Machinery Type Examination	EG-Konf.
Test Certificates		Marine / Sh	ipping	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates			Ipping	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates Type Test Certificates/Test Report		Marine / Sh	ipping First	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates	Certificate	Marine / Sh	RMRS	of Machinery Type Examination Certificate	EG-Konf.
Test Certificates Type Test Certificates/Test Report		Marine / Sh	RMRS	of Machinery	EG-Konf.

# Further information

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

http://www.siemens.com/industrial-controls/catalogs

### Industry Mall (Online ordering system)

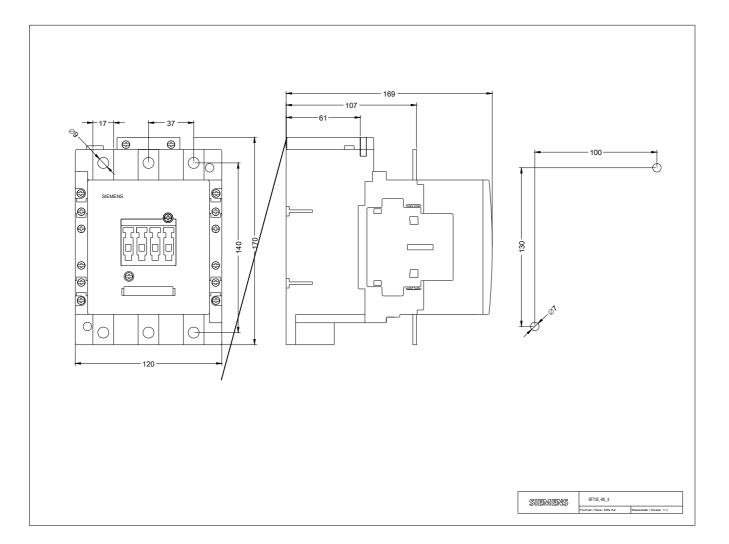
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-6NP36

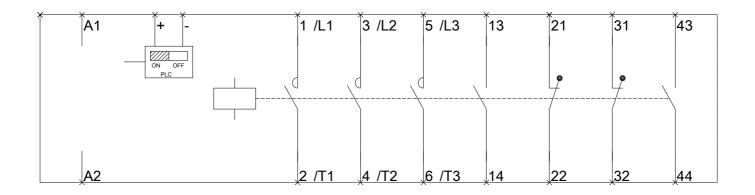
## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6NP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6NP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-6NP36&lang=en





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