# **SIEMENS**

Data sheet 3RT1054-6LA06



CONVENTIONAL OPERATING MECHAN. AUX.CONDUCTOR: SCREW TERMINALS

2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS

CONTACTOR, 55KW/400V/AC-3 W/O COIL AUXIL. CONTACTS

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 60947-1</li> </ul>	690 V
Protection class IP	
• on the front	IP00

• of the terminal	IP00
of the terminal  Shock resistance at rectangular impulse	11 00
	8,5g / 5 ms, 4,2g / 10 ms
• at AC	
• at DC	8,5g / 5 ms, 4,2g / 10 ms
Shock resistance with sine pulse	12.4a / F ma G Fa / 10 ma
• 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)	40,000,000
of contactor typical	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
Ambient conditions	
Ambient temperature	
<ul><li>during operation</li></ul>	-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	
<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	
<ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>	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
— at 690 V rated value	115 A
— at 1000 V rated value	53 A
Connectable conductor cross-section in main circuit at AC-1	

◆ at 40 °C minimum permissible         70 mm²           Operating current for approx. 200000 operating cycles at AC-4         4 at 400 V rated value         54 A           ◆ at 690 V rated value         48 A           Operating current         160 A           → at 110 V rated value         160 A           — at 110 V rated value         3.4 A           — at 220 V rated value         0.8 A           — at 4600 V rated value         0.5 A           • with 2 current paths in series at DC-1         160 A           — at 220 V rated value         160 A           — at 220 V rated value         20 A           — at 220 V rated value         3.2 A           — at 440 V rated value         1.6 A           — at 440 V rated value         1.6 A           — at 220 V rated value         1.6 A           — at 24 V rated value         160 A           — at 250 V rated value         150 A           — at 260 V rated value         4 A           Operating current         4 A           Operating current paths in series at DC-3 at DC-5           — at 24 V rated value         0.6 A </th <th>• at 60 °C minimum permissible</th> <th>50 mm²</th>	• at 60 °C minimum permissible	50 mm²
e at 400 V rated value 48 A  ● at 690 V rated value 48 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 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 24 V rated value 160 A — at 110 V rated value 160 A — at 110 V rated value 160 A — at 120 V rated value 160 A — at 110 V rated value 160 A — at 110 V rated value 160 A — at 140 V rated value 160 A — at 220 V rated value 160 A — at 440 V rated value 160 A — at 24 V rated value 160 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 110 V rated value 160 A — at 120 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 220 V rated value 160 A — at 24 V rated value 160 A — at 24 V rated value 160 A — at 24 V rated value 150 A — at 220 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 24 V rated value 160 A — at 24 V rated value 160 A — at 25 A — at 24 V rated value 160 A — at 100 V rated value 160 A — at 110 V rated value 160 A — at 24 V rated value 160 A	• at 40 °C minimum permissible	70 mm²
• at 400 V rated value		
• at 590 V rated value 48 A  Operating current  • at 1 current path at DC-1  — at 24 V rated value 18 A  — at 220 V rated value 3.4 A  — at 440 V rated value 0.8 A  • with 2 current paths in series at DC-1  — at 24 V rated value 160 A  — at 110 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 20 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 1.6 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 110 V rated value 160 A  — at 24 V rated value 160 A  — at 24 V rated value 160 A  — at 110 V rated value 160 A  — at 120 V rated value 160 A  — at 140 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 0.6 A  — at 110 V rated value 10.6 A  — at 110 V rated value 10.6 A  — at 220 V rated value 160 A  — at 600 V rated value 160 A  — at 600 V rated value 160 A  — at 600 V rated value 160 A  — at 24 V rated value 160 A  — at 24 V rated value 160 A  — at 22 V rated value 160 A  — at 24 V rated value 160 A  — at 440 V rated value 160 A  — at 24 V rated value 160 A	cycles at AC-4	
Operating current              • at 1 current path at DC-1	• at 400 V rated value	
at 1 current path at DC-1     — at 24 V rated value		48 A
- at 110 V rated value	• at 1 current path at DC-1	
- at 220 V rated value	— at 24 V rated value	
- at 440 V rated value	— at 110 V rated value	
<ul> <li>→ with 2 current paths in series at DC-1</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>→ at 440 V rated value</li> <li>→ at 600 V rated value</li> <li>→ at 600 V rated value</li> <li>→ at 600 V rated value</li> <li>→ with 3 current paths in series at DC-1</li> <li>→ at 24 V rated value</li> <li>→ at 110 V rated value</li> <li>→ at 110 V rated value</li> <li>→ at 440 V rated value</li> <li>→ at 600 V rated value</li> <li>→ at 600 V rated value</li> <li>→ at 1 current path at DC-3 at DC-5</li> <li>→ at 220 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 110 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 440 V rated value</li> <li>→ at 440 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 420 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 440 V rated value</li> <li>→ at 600 V rated value</li> <li>→ with 2 current paths in series at DC-3 at DC-5</li> <li>→ at 24 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 100 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 220 V rated value</li> <li>→ at 440 V rated value</li> <li>→ at 600 V rated value</li> <li>→ at 600 V rated value</li> <li>→ with 3 current paths in series at DC-3 at DC-5</li> <li>→ at 440 V rated value</li> <li>→ with 3 current paths in series at DC-3 at DC-5</li> <li>→ at 440 V rated value</li> <li>→ with 3 current paths in series at DC-3 at DC-5</li> <li>→ at 440 V rated value</li> <li>→ with 3 current paths in series at DC-3 at DC-5</li> <li>→ at 24 V rated value</li> <li>→ with 3 current paths in series at DC-3 at DC-5</li> <li>→ at 24 V rated value</li> <li>→ at 24 V rated</li></ul>	— at 220 V rated value	3.4 A
with 2 current paths in series at DC-1     — at 24 V rated value	— at 440 V rated value	0.8 A
at 24 V rated value 160 A at 110 V rated value 20 A at 220 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 110 V rated value 160 A at 220 V rated value 160 A at 240 V rated value 11.5 A at 600 V rated value 11.5 A at 600 V rated value 11.5 A at 600 V rated value 12.5 A at 24 V rated value 160 A at 110 V rated value 160 A at 220 V rated value 160 A at 240 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 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 240 V rated value 160 A	— at 600 V rated value	0.5 A
- at 110 V rated value	<ul><li>with 2 current paths in series at DC-1</li></ul>	
	— at 24 V rated value	160 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 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 2.5 A - at 220 V rated value 0.6 A - at 440 V rated value 10.17 A - at 600 V rated value 10.18 A - at 440 V rated value 10.19 A - at 600 V rated value 10.0 A - at 24 V rated value 160 A - at 20 V rated value 160 A - at 20 V rated value 160 A - at 20 V rated value 2.5 A - at 440 V rated value 10.65 A - at 440 V rated value 10.65 A - at 600 V rated value 10.37 A  • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 10.37 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
<ul> <li>— at 600 V rated value</li> <li>● with 3 current paths in series at DC-1</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>— at 600 V rated value</li> <li>— at 600 V rated value</li> <li>4 A</li> </ul> Operating current <ul> <li>• at 1 current path at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 220 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 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 27 V rated value</li> <li>— at 28 V rated value</li> <li>— at 110 V rated value</li> <li>— at 110 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 25 A</li> <li>— at 440 V rated value</li> <li>— at 25 A</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul>	— 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 1 current path at DC-3 at DC-5     — at 24 V rated value     — at 110 V rated value     — at 120 V rated value     — at 220 V rated value     — at 440 V rated value     — at 440 V rated value     — at 600 V rated value     — at 24 V rated value     — at 440 V rated value     — at 25 A     — at 440 V rated value     — at 260 A     — at 27 V rated value     — at 280 V rated value     — at 440 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 220 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 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 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value - at 110 V rated value 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 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 0.37 A	— at 600 V rated value	1.6 A
- at 110 V rated value 160 A - at 220 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 2.5 A - at 220 V rated value 0.6 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 0.12 A  • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 120 V rated value 160 A - at 110 V rated value 160 A - at 120 V rated value 0.65 A - at 440 V rated value 0.65 A - at 600 V rated value 0.65 A - at 600 V rated value 160 A - at 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 160 A - at 600 V rated value 160 A	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
— at 220 V rated value — at 440 V rated value — at 600 V rated value  4 A  Operating current  • at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 600 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  • 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 600 V rated value — at 220 V rated value — at 600 V rated value — at 220 V rated value — at 600 V rated value — at 440 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  • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value	— at 24 V rated value	160 A
<ul> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>4 A</li> <li>Operating current         <ul> <li>• at 1 current path at DC-3 at DC-5</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>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 2 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>— at 220 V rated value</li> <li>— at 220 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> <li>• with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>• with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> </ul>	— 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 2.5 A  — at 220 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 160 A  — at 220 V rated value 2.5 A  — at 440 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 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 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 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 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 220 V rated value  — at 440 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 110 V rated value  — at 220 V rated value  — at 220 V rated value  — at 24 V rated value  — at 200 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 24 V rated value	— at 600 V rated value	4 A
- at 24 V rated value - 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  • 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 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	Operating current	
<ul> <li>at 110 V rated value</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>with 2 current paths in series at DC-3 at DC-5</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>at 440 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>160 A</li> <li>at 24 V rated value</li> <li>160 A</li> <li>at 24 V rated value</li> <li>160 A</li> </ul>	<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
<ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</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>at 600 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 600 V rated value</li> <li>at 24 V rated value</li> <li>160 A</li> <li>160 A</li> <li>160 A</li> <li>160 A</li> <li>160 A</li> <li>160 A</li> </ul>	— at 24 V rated value	160 A
<ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>with 2 current paths in series at DC-3 at DC-5</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>at 600 V rated value</li> <li>at 600 V rated value</li> <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> <li>160 A</li> <li>160 A</li> </ul>	— at 110 V rated value	2.5 A
<ul> <li>— at 600 V rated value</li> <li>● with 2 current paths in series at DC-3 at DC-5</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>— at 600 V rated value</li> <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> <li>0.65 A</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>160 A</li> </ul>	— at 220 V rated value	0.6 A
<ul> <li>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  • with 3 current paths in series at DC-3 at DC-5  — at 24 V rated value  160 A  160 A  160 A  160 A</li> </ul>	— at 440 V rated value	0.17 A
<ul> <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>— at 600 V rated value</li> <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 600 V rated value	0.12 A
<ul> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>● with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> </ul>	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
<ul> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <li>• with 3 current paths in series at DC-3 at DC-5</li> <li>— at 24 V rated value</li> <li>2.5 A</li> <li>0.65 A</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>160 A</li> </ul>	— at 24 V rated value	160 A
<ul> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> <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 110 V rated value	160 A
<ul> <li>— at 600 V rated value</li> <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 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
	• with 3 current paths in series at DC-3 at DC-5	
— 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	0.000.4#
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	800 1/h
• at AC-1 maximum	
• at AC-2 maximum	400 1/h 1 000 1/h
<ul><li>at AC-3 maximum</li><li>at AC-4 maximum</li></ul>	130 1/h
	130 1/11
Control circuit/ Control	
Closing delay	20 95 ms
• at AC	20 95 ms
at DC     Opening delay	20 33 1113
• at AC	40 60 ms
• at DC	40 60 ms
Arcing time	10 15 ms
, aong amo	10 10 III0

Auxiliary circuit	
Number of NC contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>instantaneous contact</li> </ul>	2
Number of NO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	
<ul> <li>instantaneous contact</li> </ul>	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	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

<u>a</u>					
31	nori	r-circi	IIIT .	nroi	tection
_			MIL.	PIO	

#### 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

Fuse gG: 355 A

Fuse gG: 315 A

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	
• for grounded parts	
— at the side	10 mm

Connections/Ter	
Type of electrical	connection

г	_	_	-	_	-	_	_	 -	_	_	-	_	_	-	 -	_	_		-	

for main current circuit

• for auxiliary and control current circuit

screw-type terminals screw-type terminals

#### Type of connectable conductor cross-sections

• at AWG conductors for main contacts

4 ... 250 kcmil

## Type of connectable conductor cross-sections

• for auxiliary contacts

- solid

- single or multi-stranded

- finely stranded with core end processing

• at AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²) 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 1x 12

## Safety related data

# 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**

Functional Safety/Safety of Machinery Declaration of Conformity









Type Examination
Certificate



Test Certificates	Marine / Shipp	ing		other	
Special Test Certificate	ABS	RMRS	DNV-GL DNV-GL	Environmental Confirmations	Confirmation

#### other

Miscellaneous

## 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=3RT1054-6LA06

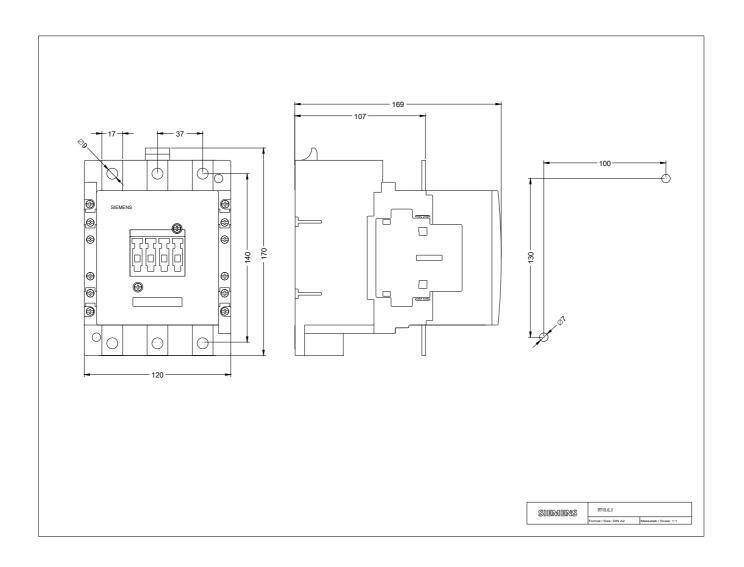
Cax online generator

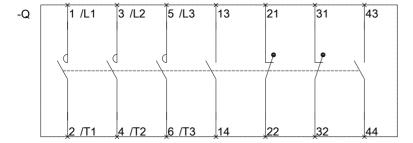
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1054-6LA06}\\$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6LA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-6LA06&lang=en





3RT106.-.L..6\_0 3RT107.-.L..6\_0

last modified: 07/14/2017