## **SIEMENS**

## Data sheet

## 3RT1054-6AP36

Power contactor, AC-3 115 A, 55 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S6 Busbar connections Drive: conventional screw terminal



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
Surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	8 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	6 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; IP20 on the front with cover / box terminal
• of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms

• at DC	8,5g / 5 ms, 4,2g / 10 ms		
Shock resistance with sine pulse			
• at AC	13,4g / 5 ms, 6,5g / 10 ms		
• at DC	13,4g / 5 ms, 6,5g / 10 ms		
Mechanical service life (switching cycles)			
<ul> <li>of contactor typical</li> </ul>	10 000 000		
<ul> <li>of the contactor with added electronics-</li> </ul>	5 000 000		
compatible auxiliary switch block typical			
<ul> <li>of the contactor with added auxiliary switch</li> </ul>	10 000 000		
block typical			
Reference code acc. to DIN 40719 extended	К		
according to IEC 204-2 acc. to IEC 750 Reference code acc. to DIN EN 81346-2			
Reference code acc. to Din En 61546-2	Q		
Ambient conditions			
Installation altitude at height above sea level			
• maximum	2 000 m		
Ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
<ul> <li>during storage</li> </ul>	-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			
— 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		
	115 A		
— at 500 V rated value			
— at 690 V rated value — at 1000 V rated value	115 A 53 A		
	77.4		

Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible 50 mm² • at 40 °C minimum permissible 70 mm² Operating current for approx. 200000 operating cycles at AC-4 • at 400 V rated value 54 A • at 600 V rated value 48 A Operating current • at 1 current path at DC-1 - at 24 V rated value 180 A - at 220 V rated value 3.4 A - at 420 V rated value 0.5 A • with 2 current paths in series at DC-1 - at 24 V rated value 160 A - at 220 V rated value 3.2 A - at 400 V rated value 3.2 A - at 400 V rated value 160 A - at 210 V rated value 160 A - at 24 V rated value 160 A - at 440 V rated value 160 A - at 440 V rated value 160 A - at 24 V rated value 160 A - at 440 V rated value 160 A - at 24 V rated value 100 A - at 440 V rated value 101 A - at 440 V rated value 102 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 102 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 102 A • with 2 current paths in series at DC-3 at DC-5 - at 24 V rated value 102 A • with 2 current paths in series at DC-3 at DC	• at AC-4 at 400 V rated value	97 A
• at 60 °C minimum permissible         50 mm³           Operating current for approx. 200000 operating cycles at AC-4         54 A           • at 400 V rated value         54 A           • at 600 V rated value         88 A           Operating current         48 A           Operating current         160 A		
at 40 °C minimu permissible     70 mm²       Operating current for approx. 200000 operating cycles at AC-4     54 A       • at 400 V rated value     54 A       • at 600 V rated value     48 A       Operating current     600 A       - at 24 V rated value     160 A       - at 10 V rated value     160 A       - at 20 V rated value     0.8 A       - at 400 V rated value     160 A       - at 21 V rated value     160 A       - at 400 V rated value     160 A       - at 400 V rated value     160 A       - at 22 V rated value     160 A       - at 400 V rated value     160 A       - at 410 V rated value     160 A       - at 410 V rated value     160 A       - at 420 V rated value     160 A       - at 400 V rated value     160 A       - at 600 V rated value     160 A       - at 600 V rated value     1		
Operating current for approx. 20000 operating cycles at AC-4       54 A         • at 400 V rated value       54 A         • at 6500 V rated value       48 A         Operating current       48 A         • at 6500 V rated value       160 A         - at 24 V rated value       160 A         - at 220 V rated value       18 A         - at 220 V rated value       3.4 A         - at 400 V rated value       0.5 A         - at 600 V rated value       160 A         - at 22 V rated value       160 A         - at 440 V rated value       0.5 A         • with 2 current paths in series at DC-1       -         - at 22 V rated value       160 A         - at 24 V rated value       160 A         - at 40 V rated value       160 A         - at 40 V rated value       160 A         - at 20 V rated value       160 A         - at 40 V rated value       160 A         - at 20 V rated value       160 A         - at 20 V rated value       160 A         - at 400 V rated value       <	·	
cycles at AC-4         54 A           • at 400 V rated value         54 A           • at 690 V rated value         48 A           Operating current	•	70 mm <sup>2</sup>
• at 400 V rated value         54 A           • at 690 V rated value         48 A           Operating current         48 A           • at 1 current path at DC-1         100 V rated value           • at 24 V rated value         160 A           - at 220 V rated value         3.4 A           - at 400 V rated value         0.8 A           - at 400 V rated value         0.5 A           • with 2 current paths in series at DC-1         -           - at 200 V rated value         160 A           - at 200 V rated value         0.5 A           • with 2 current paths in series at DC-1         -           - at 440 V rated value         160 A           - at 400 V rated value         160 A           - at 600 V rated value         160 A           - at 110 V rated value         115 A           - at 600 V rated value         160 A           - at 40 V rated value         160 A           - at 110 V rated val		
at 860 V rated value         48 A           Operating current         - at 24 V rated value         160 A           - at 24 V rated value         160 A           - at 220 V rated value         18 A           - at 220 V rated value         3.4 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 220 V rated value           - at 220 V rated value         160 A           - at 400 V rated value         160 A           - at 420 V rated value         160 A           - at 440 V rated value         160 A           - at 220 V rated value         160 A           - at 220 V rated value         160 A           - at 440 V rated value         160 A           - at 220 V rated value         160 A	-	54.4
Operating currentImage: second condition of the secon		
• at 1 current path at DC-1       160 A         - at 24 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         - at 24 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 220 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 220 V rated value       160 A         - at 220 V rated value       160 A         - at 220 V rated value       160 A         - at 420 V rated value       115 A         - at 600 V rated value       12 A         • at 1 current path at DC-3 at DC-5       - at 24 V rated value         - at 220 V rated value       06 A         - at 220 V rated value       0.6 A         - at 44		48 A
- at 24 V rated value       160 A         - at 110 V rated value       18 A         - at 220 V rated value       3.4 A         - at 440 V rated value       0.8 A         - at 600 V rated value       0.5 A         • with 2 current paths in series at DC-1       -         - at 220 V rated value       160 A         - at 440 V rated value       20 A         - at 440 V rated value       3.2 A         - at 600 V rated value       3.2 A         - at 600 V rated value       160 A         - at 440 V rated value       160 A         - at 110 V rated value       160 A         - at 220 V rated value       160 A         - at 220 V rated value       160 A         - at 440 V rated value       160 A         - at 410 V rated value       2.5 A         - at 220 V rated value       0.6 A         - at 440 V rated value       0.17 A		
- 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 600 V rated value       1.6 A         • with 3 current paths in series at DC-1       -         - at 600 V rated value       1.6 A         • with 3 current paths in series at DC-1       -         - at 600 V rated value       160 A         - at 40 V rated value       1.6 A         • with 3 current paths in series at DC-1       -         - at 24 V rated value       160 A         - at 600 V rated value       160 A         - at 220 V rated value       160 A         - at 440 V rated value       1.5 A         - at 600 V rated value       2.5 A         - at 24 V rated value       0.6 A         - at 240 V rated value       0.6 A         - at 440 V rated value       0.17 A         - at 600 V rated value       0.12 A         • with 2 curr		400.4
- 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 440 V rated value       160 A         - at 220 V rated value       20 A         - at 400 V rated value       3.2 A         - at 600 V rated value       160 A         - at 400 V rated value       160 A         - at 24 V rated value       160 A         - at 400 V rated value       160 A         - at 400 V rated value       160 A         - at 200 V rated value       160 A         - at 410 V rated value       160 A         - at 210 V rated value       160 A         - at 420 V rated value       160 A         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 400 V rated value       160 A         - at 400 V rated value       160 A         - at 400 V rated value       160 A         - at 220 V rated value       06 A         - at 220 V rated value       0.6 A         - at 440 V rated value       0.17 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 600 V rated value       1.6 A         • with 3 current paths in series at DC-1       -         - at 24 V rated value       160 A         - at 21 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 220 V rated value       160 A         - at 220 V rated value       160 A         - at 440 V rated value       160 A         - at 410 V rated value       160 A         - at 440 V rated value       160 A         - at 440 V rated value       160 A         - at 220 V rated value       160 A         - at 220 V rated value       0.6 A         - at 440 V rated value       0.17		
<ul> <li>at 10 V rated value</li> <li>at 600 V rated value</li> <li>0.5 A</li> <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>160 A</li> <li>at 600 V rated value</li> <li>160 A</li> <li>at 600 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 600 V rated value</li> <li>160 A</li> <li>at 110 V rated value</li> <li>25 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>0.7 A</li> <li>at 440 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 440 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> </ul>		
<ul> <li>with 2 current paths in series at DC-1         <ul> <li>at 24 V rated value</li> <li>at 24 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 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>ba 60 V rated value</li> <li>ba 70 V rated value</li> <li>ca 710 V rated value</li> <lica 710="" li="" rated="" v="" value<=""> <li>ca 710 V rated value</li></lica></ul></li></ul>		
		0.5 A
<ul> <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 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 A</li> <li>at 440 V rated value</li> <li>at 600 A</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 10 V rated value</li> <li>at 20 V rated value</li> <li>at 110 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 40 V rated value</li> <l< th=""><th></th><td></td></l<></ul>		
<ul> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>20 A</li> <li>at 440 V rated value</li> <li>3.2 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 220 V rated value</li> <li>160 A</li> <li>at 200 V rated value</li> <li>160 A</li> <li>at 200 V rated value</li> <li>160 A</li> <li>at 440 V rated value</li> <li>160 A</li> <li>at 600 V rated value</li> <li>160 A</li> <li>at 10 Urated value</li> <li>160 A</li> <li>at 10 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>0.17 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> </ul>		
at 440 V rated value3.2 A at 600 V rated value1.6 A• with 3 current paths in series at DC-1 at 24 V rated value at 24 V rated value160 A at 110 V rated value160 A at 220 V rated value160 A at 440 V rated value11.5 A at 600 V rated value11.5 A at 600 V rated value160 A at 440 V rated value160 A at 440 V rated value160 A at 600 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		
<ul> <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 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>be at 100 V rated value</li> <li>c at 440 V rated value</li> <li>c at 440 V rated value</li> <li>c at 440 V rated value</li> <li>c at 220 V rated value</li> <li>c at 24 V rated value</li> <li>c at 24 V rated value</li> <li>c at 440 V rated value</li> <li>c at 100 V rated value</li> <li>c at 24 V rated value</li> <li>c at 24 V rated value</li> <li>c at 24 V rated value</li> <li>c at 220 V rated value</li> <li>c at 220 V rated value</li> <li>c at 220 V rated value</li> <li>c at 110 V rated value</li> <li>c at 110 V rated value</li> <li>c at 220 V rated value</li> <li>c at 440 V rated value</li> <li>c at 24 V rated value</li> </ul>		
<ul> <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 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>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>160 A</li> </ul> • at 110 V rated value <ul> <li>160 A</li> <li>at 220 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 10 V rated value</li> <li>at 10 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>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> </ul>		
- at 24 V rated value160 A- at 110 V rated value160 A- at 220 V rated value160 A- at 220 V rated value11.5 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 24 V rated value160 A- at 110 V rated value160 A- at 24 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-5160 A		1.6 A
<ul> <li>at 110 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 600 V rated value</li> <li>b 4 A</li> <li>Operating current</li> <li>at 1 current path 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>160 A</li> <li>at 220 V rated value</li> <li>160 A</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> </ul>	<ul> <li>with 3 current paths in series at DC-1</li> </ul>	
at 220 V rated value160 A at 440 V rated value11.5 A at 600 V rated value4 AOperating current	— at 24 V rated value	
at 440 V rated value11.5 A at 600 V rated value4 AOperating current	— at 110 V rated value	
at 600 V rated value4 AOperating current	— at 220 V rated value	
Operating current• at 1 current path at DC-3 at DC-5 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 at 24 V rated value160 A	— 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 10 V rated value</li> <li>at 220 V rated value</li> <li>at 440 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>		4 A
at 24 V rated value160 A at 24 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 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 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 value	
	— at 110 V rated value	
	— at 220 V rated value	
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 160 A	— at 440 V rated value	0.17 A
— at 24 V rated value 160 A	— at 600 V rated value	0.12 A
	<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
	— at 24 V rated value	
	— at 110 V rated value	160 A
- at 220 V rated value 2.5 A	— at 220 V rated value	2.5 A
— at 440 V rated value 0.65 A	— at 440 V rated value	0.65 A
- at 600 V rated value 0.37 A	— 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-3 at DC-5</li> </ul>	

— 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 the operating current per conductor	7 W
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	
at 50 Hz rated value	220 240 V
at 60 Hz rated value	220 240 V
Control supply voltage at DC	
rated value	220 240 V

Operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• Full-scale value	1.1
Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	
• at 50 Hz	300 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.9
Apparent holding power of magnet coil at AC	
• at 50 Hz	5.8 V·A
Inductive power factor with the holding power of the coil	
• at 50 Hz	0.8
Closing power of magnet coil at DC	360 W
Holding power of magnet coil at DC	5.2 W
Closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
Opening delay	
• at AC	40 60 ms
• at DC	40 60 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
<ul> <li>instantaneous contact</li> </ul>	2
Number of NO contacts for auxiliary contacts	
	2

<ul> <li>Instantaneous contact</li> </ul>	2
Number of NO contacts for auxiliary contacts	
<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		
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	gG: 355 A (690 V, 100 kA)		
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 kA)		
• for short-circuit protection of the auxiliary switch	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>	
— at the side	10 mm
Connections/Terminals	
Type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control current circuit</li> </ul>	screw-type terminals
Type of connectable conductor cross-sections	
<ul> <li>at AWG conductors for main contacts</li> </ul>	4 250 kcmil
Connectable conductor cross-section for main contacts	
• stranded	25 120 mm²
Connectable conductor cross-section for auxiliary contacts	
<ul> <li>single or multi-stranded</li> </ul>	0.5 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	0.5 2.5 mm²
Type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14), 1x 12
AWG number as coded connectable conductor cross	
section	
<ul> <li>for auxiliary contacts</li> </ul>	18 14
Safety related data	
Product function	
<ul> <li>Mirror contact acc. to IEC 60947-4-1</li> </ul>	Yes
<ul> <li>positively driven operation acc. to IEC 60947-5-</li> <li>1</li> </ul>	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
CCC	CSA		EHC	Type Examination Certificate	EG-Konf.
Test Certificates			Marine / Shippin	g	
Type Test Certific- ates/Test Report	Special Test Certi- ficate	Miscellaneous	ABS	RMRS	DNVGLCOM/AF
other					
Confirmation	Miscellaneous				

## urther 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=3RT1054-6AP36

Cax online generator

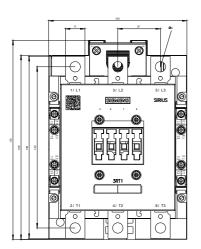
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-6AP36

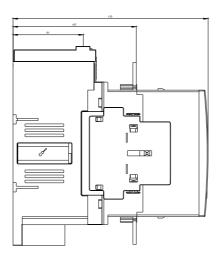
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AP36

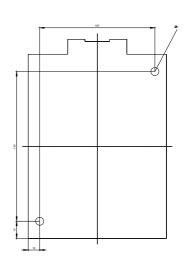
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1054-6AP36&lang=en

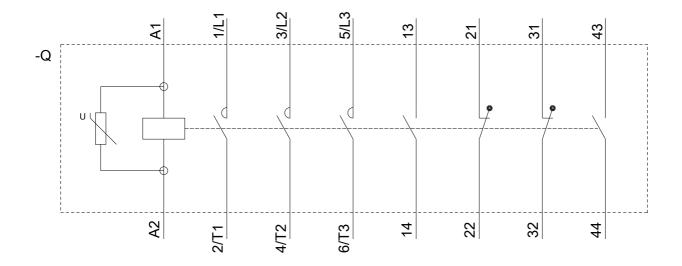
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-6AP36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-6AP36&objecttype=14&gridview=view1









last modified:

06/26/2018

3RT106.-.A. 3RT107.-.A.