SIEMENS

Data sheet

3RT1054-1XF46-0LA2

Contactor AC3: 55 kW / 400 V Coil DC 110 V x (0,7...1,25) PLC input DC 24...110 V auxiliary contacts: 2 NO + 2 NC 3-pole Size S6 with box terminals coil terminals: screw type



Figure similar

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S6
Product extension	
 Auxiliary switch 	Yes
Surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	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	
 for railway applications acc. to DIN EN 61373 	Category 1, Class B
Shock resistance at rectangular impulse	

• at DC	8,5g / 5 ms, 4,2g / 10 ms
Shock resistance with sine pulse	
• at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	
 of contactor typical 	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
 during operation 	-40 +70 °C
• during storage	-55 +80 °C
Main circuit	
Number of poles for main current circuit	3
Number of NO contacts for main contacts	3
Number of NC contacts for main contacts	0
Operating voltage	
 at AC-3 rated value maximum 	1 000 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	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
• 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
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 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	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 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 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	0.65 A
— at 600 V rated value	0.37 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	160 A
— at 110 V rated value	160 A
— at 220 V rated value	160 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
Operating power	
• at AC-1	
— at 230 V at 60 °C rated value	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 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
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	1.1 kA
Power loss [W] at AC-3 at 400 V for rated value of	7 W
the operating current per conductor	
No-load switching frequency	1 000 1/h
• at DC	
 Operating frequency at AC-1 maximum 	800 1/h
• at AC-1 maximum • at AC-2 maximum	400 1/h
• at AC-2 maximum • at AC-3 maximum	1 000 1/h
• at AC-3 maximum • at AC-4 maximum	130 1/h
Operating frequency	
• at DC-1 maximum	400 1/s
• at DC-3 maximum	500 1/s
• at DC-5 maximum	500 1/s
Control circuit/ Control	
Type of voltage of the control supply voltage	DC
Control supply voltage at DC	440.7
rated value	110 V
Operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.7
Full-scale value	1.25
Design of the surge suppressor	with varistor
Closing power of magnet coil at DC	320 W
Holding power of magnet coil at DC	2.8 W
Closing delay	
• at DC	35 75 ms
Opening delay	

Arcing time 10 15 ms Control version of the switch operating mechanism PLC-IN or Standard A1 - A2 (adjustable) Auxiliary contacts - - instantaneous contact 2 Number of NC contacts 2 - instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 2 - instantaneous contact 2 Operating current at AC-15 2 - it als0 V rated value 6 A - at 120 V rated value 75 A Operating current at DC-13 - - at 24 V rated value 6 A - at 120 V rated value 6 A - at 120 V rated value 75 A Operating current at DC-13 - - at 24 V rated value 6 A - at 120 V rated value 74 A	• at DC	80 90 ms
Number of NC contacts for auxiliary contacts instantaneous contact instantaneous contact for auxiliary contacts instantaneous contact 2 Number of NC contacts - instantaneous contact 2 Operating current at AC-12 maximum 0 A Operating current at AC-15 - at 230 V rated value 6 A - at 240 V rated value 3 A - at 420 V rated value 6 A	Arcing time	10 15 ms
Number of NC contacts 2 • for auxiliary contacts 2 • Instantaneous contact 2 Number of NC contacts 2 • for auxiliary contacts 2 • instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 6 A • at 200 V rated value 6 A • at 300 V rated value 10 A • at 500 V rated value 6 A • at 400 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 10 A • at 22 V rated value 10 A • at 60 V rated value 10 A • at 60 V rated value 0.15 A Operating current at DC-13 • • at 22 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A • at 600 V rated value 0.1 A </th <th>Control version of the switch operating mechanism</th> <th>PLC-IN or Standard A1 - A2 (adjustable)</th>	Control version of the switch operating mechanism	PLC-IN or Standard A1 - A2 (adjustable)
Number of NC contacts 2 • for auxiliary contacts 2 • Instantaneous contact 2 Number of NC contacts 2 • for auxiliary contacts 2 • instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 6 A • at 200 V rated value 6 A • at 300 V rated value 10 A • at 500 V rated value 6 A • at 400 V rated value 6 A • at 60 V rated value 6 A • at 60 V rated value 10 A • at 22 V rated value 10 A • at 60 V rated value 10 A • at 60 V rated value 0.15 A Operating current at DC-13 • • at 22 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A • at 60 V rated value 0.1 A • at 600 V rated value 0.1 A </th <th>Auxiliary circuit</th> <th></th>	Auxiliary circuit	
→ instantaneous contact 2 Number of NO contacts - for auxiliary contacts - instantaneous contact 2 Operating current at AC-15 at 230 V rated value 6 A at 400 V rated value 3 A at 300 V rated value A A		
Number of NO contacts Image: Number of NO contacts • for auxiliary contacts 2 operating current at AC-12 maximum 10 A Operating current at AC-15 6 • at 320 V rated value 3A • at 320 V rated value 6 A • at 320 V rated value 6 A • at 400 V rated value 6 A • at 300 V rated value 6 A • at 300 V rated value 6 A • at 400 V rated value 6 A • at 400 V rated value 6 A • at 600 V rated value 6 A • at 40 V rated value 6 A • at 60 V rated value 6 A • at 10 V rated value 6 A • at 10 V rated value 6 A • at 20 V rated value 6 A • at 600 V rated value 10 A • at 600 V rated value 6 A • at 600 V rated value 6 A • at 220 V rated value 6 A • at 600 V rated value 0.1 A • at 220 V rated value 0.9 A • at 220 V rated value 0.1 A	 for auxiliary contacts 	
• for auxiliary contacts 2 Operating current at AC-12 maximum 10 A Operating current at AC-12 6 A • at 230 V rated value 6 A • at 200 V rated value 2 A Operating current at DC-12 2 A • at 24 V rated value 6 A • at 300 V rated value 6 A • at 43 V rated value 6 A • at 100 V rated value 6 A • at 100 V rated value 6 A • at 100 V rated value 6 A • at 110 V rated value 6 A • at 125 V rated value 2 A • at 200 V rated value 6 A • at 200 V rated value 2 A • at 200 V rated value 2 A • at 600 V rated value 6 A • at 220 V rated value 2 A • at 220 V rated value 0 A • at 220 V rated value 0 A • at 25 V rated value 0 A • at 26 V rated value 0 A • at 20 V rated value 0 A • at 60 V rated value 0 A • at 20 V rated value 0 A • at 20 V rated value 0 A	— instantaneous contact	2
	Number of NO contacts	
Operating current at AC-12 maximum 10 A Operating current at AC-15 6 • at 230 V rated value 3 A • at 400 V rated value 3 A • at 500 V rated value 2 A Operating current at DC-12	 for auxiliary contacts 	
Operating current at AC-15 6 A at 230 V rated value 3 A at 400 V rated value 3 A at 500 V rated value 2 A Operating current at DC-12	— instantaneous contact	2
• at 230 V rated value6 A• at 400 V rated value3 A• at 500 V rated value2 AOperating current at DC-12•• at 24 V rated value6 A• at 48 V rated value6 A• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value0.15 AOperating current at DC-136 A• at 24 V rated value2 A• at 24 V rated value2 A• at 24 V rated value2 A• at 24 V rated value0.15 AOperating current at DC-13•• at 24 V rated value2 A• at 24 V rated value0.15 AOperating current at DC-13•• at 25 V rated value0.15 A• at 20 V rated value0.16 A• at 20 V rated value0.9 A• at 20 V rated value0.14 A• at 20 V rated value0.14 A• at 600 V rated value0.14 A• at 600 V rated value124 A• at 600 V rated value125 A• for single-phase AC motor25 hp• for three-phase AC motor25 hp <th>Operating current at AC-12 maximum</th> <th>10 A</th>	Operating current at AC-12 maximum	10 A
at 400 V rated value 3A at 500 V rated value 2A Operating current at DC-12 6A at 24 V rated value 6A at 48 V rated value 6A at 60 V rated value 6A at 10 V rated value 6A at 10 V rated value 6A at 110 V rated value 6A at 220 V rated value 0.15 A Operating current at DC-13 6 A at 24 V rated value 6A at 60 V rated value 0.15 A Operating current at DC-13 6 A at 24 V rated value 6 A at 60 V rated value 0.15 A Operating current at DC-13 7 at 24 V rated value 6 A at 60 V rated value 0.15 A Operating current at DC-13 7 at 24 V rated value 6 A at 60 V rated value 0.16 A at 60 V rated value 0.9 A at 220 V rated value 0.1 A Context reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 125 A Yielded mechanical performance [hj] 125 A of or single-phase AC motor 25 hp - at 230 V rated value 25 hp	Operating current at AC-15	
• at 500 V rated value2 AOperating current at DC-1210 A• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value1 A• at 220 V rated value0.15 AOperating current at DC-136 A• at 24 V rated value2 A• at 24 V rated value2 A• at 48 V rated value2 A• at 48 V rated value2 A• at 24 V rated value0.15 AOperating current at DC-130• at 24 V rated value2 A• at 24 V rated value0.14• at 600 V rated value0.9 A• at 25 V rated value0.3 A• at 260 V rated value0.14Contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsFull-load current (FLA) for three-phase AC motor124 A• at 480 V rated value125 AYielded mechanical performance [hp]125 A• for single-phase AC motor25 hp	• at 230 V rated value	6 A
Coperating current at DC-12 10 A • 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 0.15 A Operating current at DC-13 6 A • at 24 V rated value 0.15 A Operating current at DC-13 6 A • at 24 V rated value 0.15 A Operating current at DC-13 7 • at 24 V rated value 0.15 A Operating current at DC-13 7 • at 24 V rated value 0.15 A Operating current at DC-13 7 • at 24 V rated value 0.15 A Operating current at DC-13 7 • at 60 V rated value 0.16 A • at 60 V rated value 0.9 A • at 25 V rated value 0.3 A • at 20 V rated value 0.14 A Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UVCSA ratings 125 A Full-load current (FLA) for three-phase AC motor 124 A • at 600 V rated value 125 A Yielded mechanical performance [hp] 155 A • for single-phase AC motor 25 hp	• at 400 V rated value	3 A
• at 24 V rated value10 A• at 48 V rated value6 A• at 60 V rated value6 A• at 10 V rated value3 A• at 110 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 AOperating current at DC-13• at 24 V rated value6 A• at 24 V rated value2 A• at 600 V rated value2 A• at 48 V rated value6 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 200 V rated value0.1 AContact reliability of auxiliary contactsI full-load current (FLA) for three-phase AC motor• at 480 V rated value125 A• for single-phase AC motor25 hp• for single-phase AC motor25 hp• for three-phase AC motor25 hp	• at 500 V rated value	2 A
at 48 V rated value6 A• at 60 V rated value6 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 AOperating current at DC-13• at 24 V rated value6 A• at 48 V rated value2 A• at 600 V rated value2 A• at 24 V rated value6 A• at 48 V rated value2 A• at 48 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 220 V rated value0.1 AContact reliability of auxiliary contactsI faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 600 V rated value124 A• at 600 V rated value125 AYielided mechanical performance [hp]• for single-phase AC motor25 hp• at 230 V rated value25 hp	Operating current at DC-12	
at it of vitated value6• at 60 V rated value3 A• at 110 V rated value3 A• at 125 V rated value2 A• at 220 V rated value1 A• at 600 V rated value0.15 AOperating current at DC-13• at 24 V rated value6 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 60 V rated value2 A• at 10 V rated value1 A• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 60 V rated value1 faulty switching per 100 million (17 V, 1 mA)U/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value25 hp• for single-phase AC motor25 hp	• at 24 V rated value	10 A
a at 110 V rated value3 Aa at 110 V rated value3 Aa at 125 V rated value1 Aa t 20 V rated value1 Aa t 600 V rated value0.15 AOperating current at DC-13a t 24 V rated value6 Aa t 24 V rated value2 Aa t 60 V rated value2 Aa t 10 V rated value1 Aa t 10 V rated value0.9 Aa t 125 V rated value0.3 Aa t 20 V rated value0.1 AContact reliability of auxiliary contactsI full-load current (FLA) for three-phase AC motora t 480 V rated value124 Aa t 600 V rated value125 AYielded mechanical performance [hp]for single-phase AC motor25 hpa t 230 V rated value25 hp	• at 48 V rated value	6 A
a ti 125 V rated value2 Aa ti 125 V rated value1 Aa ti 220 V rated value0.15 AOperating current at DC-13	• at 60 V rated value	6 A
a table have been been been been been been been be	• at 110 V rated value	3 A
at 600 V rated value0.15 AOperating current at DC-136 A• at 24 V rated value6 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value1 A• at 10 V rated value0.9 A• at 220 V rated value0.15 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 200 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)ULCSA ratings124 AFull-load current (FLA) for three-phase AC motor • at 480 V rated value125 AYielded mechanical performance [tp]25 hp• for single-phase AC motor • at 230 V rated value25 hp	• at 125 V rated value	2 A
Operating current at DC-136 A• at 24 V rated value6 A• at 24 V rated value2 A• at 48 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 600 V rated value124 A• at 600 V rated value25 h	• at 220 V rated value	1 A
• at 24 V rated value6 A• at 48 V rated value2 A• at 60 V rated value2 A• at 60 V rated value1 A• at 110 V rated value0.9 A• at 220 V rated value0.3 A• at 220 V rated value0.1 A• at 600 V rated value1 faulty switching per 100 million (17 V, 1 mA)• DL/CSA ratings124 A• at 80 V rated value125 A• at 600 V rated value25 hp• for single-phase AC motor25 hp	• at 600 V rated value	0.15 A
 at 48 V rated value at 48 V rated value at 60 V rated value at 60 V rated value 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 125 A Yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 25 hp for three-phase AC motor 	Operating current at DC-13	
 at 60 V rated value 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 600 V rated value 124 A at 600 V rated value 25 A Yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value 25 hp for three-phase AC motor at 230 V rated value 25 hp for single-phase AC motor at 230 V rated value 25 hp for three-phase AC motor at 230 V rated value bp for three-phase AC motor at 230 V rated value	• at 24 V rated value	6 A
 at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value 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] for single-phase AC motor at 230 V rated value 25 hp for three-phase AC motor at 230 V rated value 25 hp for three-phase AC motor at 230 V rated value bp for three-phase AC motor at 230 V rated value	• at 48 V rated value	2 A
• at 125 V rated value0.9 A• at 220 V rated value0.3 A• at 600 V rated value0.1 AContact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp]• for single-phase AC motor25 hp• for three-phase AC motor25 hp	• at 60 V rated value	2 A
• at 220 V rated value0.3 A• at 600 V rated value0.1 AContact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp]• for single-phase AC motor25 hp• for three-phase AC motor25 hp	• at 110 V rated value	1 A
• at 600 V rated value0.1 AContact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp]• for single-phase AC motor25 hp• for three-phase AC motor25 hp	• at 125 V rated value	0.9 A
Contact reliability of auxiliary contacts1 faulty switching per 100 million (17 V, 1 mA)UL/CSA ratingsFull-load current (FLA) for three-phase AC motor • at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value25 hp	• at 220 V rated value	0.3 A
UL/CSA ratings Full-load current (FLA) for three-phase AC motor 124 A • at 480 V rated value 125 A Yielded mechanical performance [hp] 125 A • for single-phase AC motor 25 hp • for three-phase AC motor 25 hp	• at 600 V rated value	0.1 A
Full-load current (FLA) for three-phase AC motor• at 480 V rated value124 A• at 600 V rated value125 AYielded mechanical performance [hp]• for single-phase AC motor25 hp- at 230 V rated value25 hp	Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
 at 480 V rated value at 600 V rated value 124 A 125 A Yielded mechanical performance [hp] for single-phase AC motor - at 230 V rated value for three-phase AC motor 	UL/CSA ratings	
• at 600 V rated value 125 A Yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for three-phase AC motor	Full-load current (FLA) for three-phase AC motor	
Yielded mechanical performance [hp] • for single-phase AC motor	● at 480 V rated value	124 A
 for single-phase AC motor — at 230 V rated value for three-phase AC motor 	● at 600 V rated value	125 A
— at 230 V rated value 25 hp • for three-phase AC motor 25 hp	Yielded mechanical performance [hp]	
• for three-phase AC motor	 for single-phase AC motor 	
	— at 230 V rated value	25 hp
- at 200/208 V rated value 40 hp	 for three-phase AC motor 	
	— at 200/208 V rated value	40 hp

— at 220/230 V rated value	50 hp		
	100 hp		
— at 460/480 V rated value			
— 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			
 for short-circuit protection of the main circuit 			
 — with type of coordination 1 required 	Fuse gG: 355 A		
 — with type of assignment 2 required 	Fuse gG: 315 A		
 for short-circuit protection of the auxiliary switch 	fuse gG: 10 A		
required			
Installation/ mounting/ dimensions			
Mounting position	with vertical mounting surface +/-90° rotatable, with vertical		
	mounting surface +/- 22.5° tiltable to the front and back		
Mounting type	screw fixing		
 Side-by-side mounting 	Yes		
Height	172 mm		
Width	120 mm		
Depth	170 mm		
Required spacing			
 with side-by-side mounting 			
— forwards	20 mm		
— Backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
 for grounded parts 			
— forwards	20 mm		
— Backwards	0 mm		
— upwards	10 mm		
— at the side	10 mm		
— downwards	10 mm		
• for live parts			
— forwards	10 mm		
— Backwards	0 mm		
— upwards	10 mm		
— downwards	10 mm		
— at the side	10 mm		
Connections/Terminals			
Type of electrical connection			
 for main current circuit 	screw-type terminals		

 for auxiliary and control current circuit 	screw-type terminals				
Type of connectable conductor cross-sections					
 for main contacts 					
— stranded	max. 1x 50, 1x 70 mm²				
— single or multi-stranded	max. 1x 50, 1x 70 mm ²	max. 1x 50, 1x 70 mm²			
 finely stranded with core end processing 	max. 1x 50, 1x 70 mm²				
 finely stranded without core end processing 	max. 1x 50, 1x 70 mm²				
 at AWG conductors for main contacts 	2x 1/0	2x 1/0			
Type of connectable conductor cross-sections					
 for auxiliary contacts 					
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²)				
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12				
Safety related data					
Product function					
 Mirror contact acc. to IEC 60947-4-1 	Yes				
 positively driven operation acc. to IEC 60947-5- 1 	No				
Certificates/approvals					
General Product Approval		Functional Safety/Safety of Machinery	Declaration of Conformity		
	EHC	Type Examination Certificate	CE EG-Konf.		

Test	Marine /	other		Railway	
Certificates	Shipping				
Special Test Certificate	DNV-GL DNV-GL	<u>Confirmation</u>	<u>Miscellaneous</u>	Vibration and Shock	<u>Confirmation</u>

ссс

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=3RT1054-1XF46-0LA2

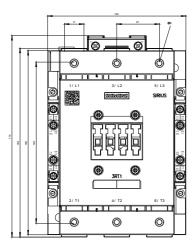
Cax online generator

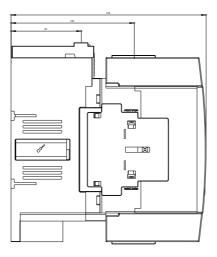
http://support.automation.siemens.com/WW/CAX order/default.aspx?lang=en&mlfb=3RT1054-1XF46-0LA2

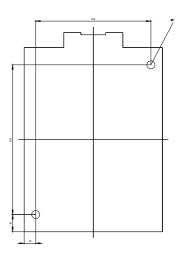
UL

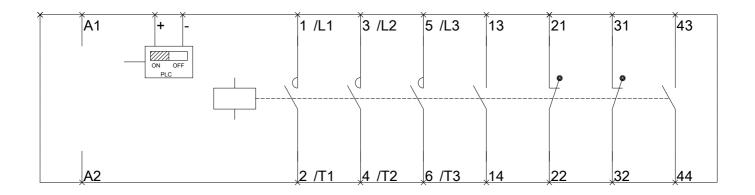
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-1XF46-0LA2

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-1XF46-0LA2&lang=en









last modified:

10/13/2017