SIEMENS

Data sheet

3RT1056-6AB36

CONTACTOR, 90KW/400V/AC-3, AC(50...60HZ)/DC OPERATION UC 23...26V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENT. OPERATING MECHANSIM 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	
 function module for communication 	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	
 between coil and main contacts acc. to EN 	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)	
 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
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	
 at AC-3 rated value maximum 	1 000 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	215 A
● at AC-1	
— up to 690 V at ambient temperature 40 $^\circ C$ rated value	215 A
— up to 690 V at ambient temperature 60 $^\circ C$ rated value	185 A
— up to 1000 V at ambient temperature 40 °C rated value	100 A
— up to 1000 V at ambient temperature 60 $^\circ$ C rated value	100 A
• at AC-2 at 400 V rated value	185 A
• at AC-3	
— at 400 V rated value	185 A
— at 500 V rated value	185 A
	170 A
 — at 690 V rated value 	

• at 40 °C minimum permissible95 mm²Operating current for approx. 20000 operating cycles at AC-481 A• at 400 V rated value65 AOperating current160 A- at 24 V rated value160 A- at 24 V rated value0.8 A- at 400 V rated value0.8 A- at 400 V rated value0.5 A- at 400 V rated value0.5 A- at 400 V rated value160 A- at 400 V rated value0.5 A- at 400 V rated value160 A- at 410 V rated value160 A- at 420 V rated value160 A- at 410 V rated value160 A- at 420 V rated value160 A <th>• at 60 °C minimum permissible</th> <th>95 mm²</th>	• at 60 °C minimum permissible	95 mm ²
Operating current for approx. 20000 operating cycles at AC-4 Image: space		95 mm ²
• at 400 V rated value 81 A • at 690 V rated value 65 A Operating current - • at 1 current path at DC-1 - - at 24 V rated value 160 A at 24 V rated value 18 A - at 440 V rated value 0.8 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 240 V rated value 160 A - at 400 V rated value 20 A - at 400 V rated value 160 A - at 24 V rated value 160 A - at 110 V rated value 160 A - at 24 V rated value 160 A <th>•</th> <th></th>	•	
• at 690 V rated value 65 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 220 V rated value 0.8 A - at 220 V rated value 0.8 A - at 400 V rated value 0.5 A • with 2 current paths in series at DC-1 - - at 210 V rated value 160 A - at 220 V rated value 20 A - at 110 V rated value 160 A - at 220 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	cycles at AC-4	
Operating current Instrument • at 1 current path at DC-1 160 A - at 24 V rated value 160 A - at 24 V rated value 18 A - at 20 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 210 V rated value 160 A - at 220 V rated value 160 A - at 220 V rated value 160 A - at 220 V rated value 20 A - at 400 V rated value 160 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 400 V rated value	81 A
• at 1 current path at DC-1 160 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 24 V rated value 160 A - at 24 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 24 V rated value 160 A - at 24 V rated value 160 A - at 22 V rated value 160 A - at 20 V rated value 160 A - at 40 V rated value 15 A - at 400 V rated value 160 A - at 10 V rated value 25 A - at 22 V rated value 0.17 A - at 40 V rated value 0.17 A - at 400 V rated value 0.17 A	• at 690 V rated value	65 A
	Operating current	
	• 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 110 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 1.6 A • with 3 current paths in series at DC-1 - - at 600 V rated value 160 A - at 24 V rated value 160 A - at 20 V rated value 160 A - at 440 V rated value 100 A - at 440 V rated value 100 A - at 400 V rated value 2.5 A - at 440 V rated value 0.6 A - at 440 V rated value 0.17 A - at 24 V rated value 0.10 A - at 400 V rated value 100 A - at 400 V rated value 0.16 A - at 440 V rated value 0	— at 24 V rated value	160 A
	— at 110 V rated value	18 A
- at 600 V rated value 0.5 Å • with 2 current paths in series at DC-1 - at 24 V rated value - at 220 V rated value 160 Å - at 220 V rated value 20 Å - at 440 V rated value 3.2 Å - at 600 V rated value 160 Å - at 600 V rated value 160 Å - at 440 V rated value 160 Å - at 24 V rated value 160 Å - at 200 V rated value 160 Å - at 600 V rated value 15 Å - at 440 V rated value 160 Å - at 410 V rated value 160 Å - at 220 V rated value 0.6 Å - at 220 V rated value 0.6 Å - at 440 V rated value 0.17 Å - at 600 V rated value 160 Å - at 220 V rated value 160 Å - at 220 V rated value 160 Å - at 220 V rated value 2.5 Å - at 220 V rated value	— at 220 V rated value	3.4 A
 with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value at 20 A at 440 V rated value 20 A at 440 V rated value 32 A at 600 V rated value 16 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 220 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 1 current path at DC-3 at DC-5 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 0.12 A with 2 current paths in series at DC-3 at DC-5 at 24 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 0.17 A at 440 V rated value 0.17 A at 440 V rated value 0.17 A at 22 V rated value 0.17 A at 22 V rated value 0.17 A at 440 V rated value 160 A at 10 V rated value 160 A at 22 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 440	— 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 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 0.6 A - at 200 V rated value 0.17 A - at 440 V rated value 160 A - at 24 V rated value 0.16 A - at 24 V rated value 0.16 A - at 440 V rated value 0.16 A - at 440 V rated value 160 A - at 440 V rated value 0.65 A <th>— at 600 V rated value</th> <th>0.5 A</th>	— at 600 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 at 440 V rated value 32 A at 600 V rated value 16 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 440 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 220 V rated value 160 A at 220 V rated value 160 A at 440 V rated value 15 A at 220 V rated value 160 A at 1 current path at DC-3 at DC-5 at 24 V rated value 0.6 A at 440 V rated value 0.17 A at 460 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 0.6 A at 440 V rated value 0.65 A at 4	— at 24 V rated value	160 A
	— at 110 V rated value	160 A
 at 100 V rated value at 600 V rated value at 600 V rated value at 24 V rated value 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 at 10 V rated value at 10 V rated value at 200 V rated value at 400 V rated value at 200 V rated value at 400 V rated value a	— at 220 V rated value	20 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 10 V rated value 160 A at 24 V rated value 160 A at 24 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 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 24 V rated value 0.5 A at 24 V rated value 0.65 A at 440 V rated value 0.65 A at 24 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 0.65 A at 440 V rated value 0.	— 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 10 V rated value 160 A - at 10 V rated value 160 A - at 220 V rated value 160 A - at 220 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 160 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 160 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 600 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	— at 600 V rated value	1.6 A
- at 110 V rated value 160 A - at 220 V rated value 160 A - at 220 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 20 V rated value 0.6 A - at 440 V rated value 0.17 A - at 24 V rated value 0.12 A - at 24 V rated value 160 A - at 24 V rated value 0.6 A - at 440 V rated value 0.6 A - at 440 V rated value 0.17 A - at 24 V rated value 0.6 A - at 24 V rated value 0.60 A - at 24 V rated value 0.6 A - at 400 V rated value 0.60 A - at 24 V rated value 160 A - at 220 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 400 V rated value 0.65 A - at 600 V rated value 0.37 A • w	 with 3 current paths in series at DC-1 	
- 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 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 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 20 V rated value 0.60 A - at 440 V rated value 160 A - at 440 V rated value 160 A - at 440 V rated value 0.65 A - at 440 V rated value 0.65 A - at 440 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 - - at 42 V rated value 160 A	— at 24 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 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 600 V rated value 0.12 A - at 600 V rated value 0.12 A - at 24 V rated value 160 A - at 440 V rated value 0.12 A - at 440 V rated value 0.12 A - at 440 V rated value 160 A - at 220 V rated value 160 A - at 220 V rated value 100 A - at 440 V rated value 100 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 - - at 24 V rated value 160 A	— 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 24 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 value0.37 A• with 3 current paths in series at DC-3 at DC-5 at 24 V rated value160 A	— at 220 V rated value	160 A
Operating currentImage: constraint of the end of the	— at 440 V rated value	11.5 A
 at 1 current path at DC-3 at DC-5 at 24 V rated value at 24 V rated value at 110 V rated value 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 0.6 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 160 A 	— 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 at 24 V rated value160 A- at 110 V rated value160 A- at 220 V rated value0.65 A- at 440 V rated value0.65 A- at 440 V rated value0.65 A- at 24 V rated value160 A	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 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 1 current path at DC-3 at DC-5	
 at 220 V rated value at 440 V rated value at 600 V rated value 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 440 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 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 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	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
 with 2 current paths in series at DC-3 at DC-5 at 24 V rated value -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 440 V rated value	0.17 A
- 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-5 160 A - at 24 V rated value 160 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	 with 2 current paths in series at DC-3 at DC-5 	
 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 	— 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 value with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 160 A 	— at 220 V rated value	2.5 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	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	70 kW
— at 400 V rated value	121 kW
— at 400 V at 60 °C rated value	121 kW
— at 690 V rated value	210 kW
— at 690 V at 60 °C rated value	210 kW
— at 1000 V at 60 °C rated value	165 kW
• at AC-2 at 400 V rated value	90 kW
• at AC-3	
— at 230 V rated value	61 kW
— at 400 V rated value	90 kW
— at 500 V rated value	132 kW
— at 690 V rated value	160 kW
— at 1000 V rated value	90 kW
Operating power for approx. 200000 operating cycles	
at AC-4	
• at 400 V rated value	45 kW
• at 690 V rated value	65 kW
Thermal short-time current limited to 10 s	1 480 A
Power loss [W] at AC-3 at 400 V for rated value of	13 W
the operating current per conductor No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Control supply voltage at AC	22 26.14
• at 50 Hz rated value	23 26 V
at 60 Hz rated value	23 26 V
Control supply voltage at DC	23 26 V
rated value Operating range factor control supply voltage rated	23 20 V
Operating range factor control supply voltage rated value of magnet coil at AC	

	0.0 1.1
• 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	222.1/1
• at 50 Hz	300 V·A
Inductive power factor with closing power of the coil	
• at 50 Hz	0.9
Apparent holding power of magnet coil at AC	
• at 50 Hz	5.8 V·A
Inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.8
Closing power of magnet coil at DC	360 W
Holding power of magnet coil at DC	5.2 W
Closing delay	20 05 mg
• at AC	20 95 ms
• at DC	20 95 ms
Opening delay	
● at AC	40 60 ms
• at DC	40 60 ms
Arcing time	10 15 ms
Control version of the switch operating mechanism	Standard A1 - A2
Control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2
· ·	Standard A1 - A2
Auxiliary circuit	Standard A1 - A2
Auxiliary circuit Number of NC contacts	Standard A1 - A2
Auxiliary circuit Number of NC contacts • for auxiliary contacts	
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact	
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts	
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts	2
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact	2
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum	2
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15	2 2 10 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value	2 2 10 A 6 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value	2 2 10 A 6 A 3 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value	2 2 10 A 6 A 3 A 2 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value	2 2 10 A 6 A 3 A 2 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value	2 2 10 A 6 A 3 A 2 A 1 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A
Auxiliary circuit Number of NC contacts • for auxiliary contacts — instantaneous contact Number of NO contacts • for auxiliary contacts — instantaneous contact Operating current at AC-12 maximum Operating current at AC-15 • at 230 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value	2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A

• at 600 V rated value	0.15 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 125 V rated value	0.9 A
• at 220 V rated value	0.3 A
• at 600 V rated value	0.1 A
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)

UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	180 A
• at 600 V rated value	192 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 230 V rated value	30 hp
 for three-phase AC motor 	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
Contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	

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

— at the side			10 mm			
Connections/Termin	als					
Type of electrical cor	nection					
 for main current circuit 			screw-type terminals			
 for auxiliary and 	 for auxiliary and control current circuit 					
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			2x (0.5 1.5 mm²), 2x (0	0.75 2.5 mm²), max	k. 2x (0.75 4 mm²)	
— single or m	nulti-stranded		2x (0,5 1,5 mm²), 2x (0	0,75 2,5 mm²), max	k. 2x (0,75 4 mm²)	
-	nded with core end pro	ocessing	2x (0.5 1.5 mm²), 2x (0).75 2.5 mm²)		
-	ctors for auxiliary cont	-	2x (20 16), 2x (18 1			
Safety related data						
Product function						
 Mirror contact a 	acc. to IEC 60947-4-1		Yes			
 positively driver 	n operation acc. to IEC	C 60947-5-	No			
1						
Protection against ele	ectrical shock		finger-safe when touched	d vertically from front	acc. to IEC 60529	
Certificates/approva	ls					
General Product				Functional	Declaration of	
				Safety/Safety	Conformity	
				of Machinery		
				Type Examination		
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Further information

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

Industry Mall (Online ordering system)

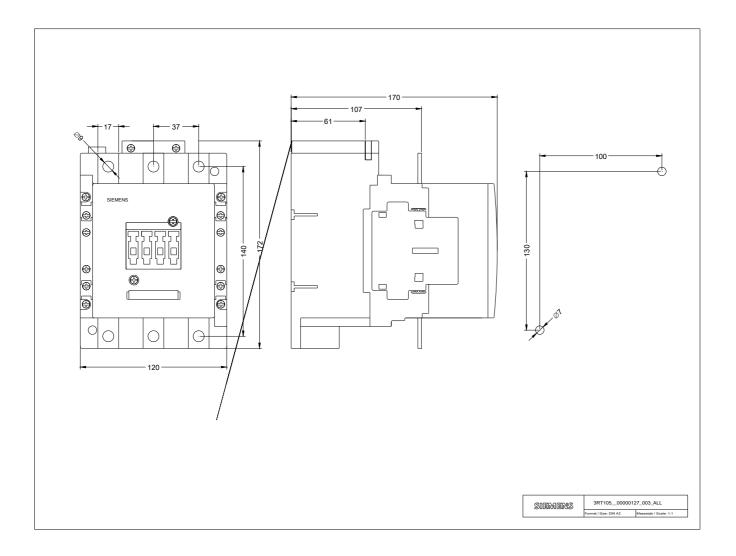
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1056-6AB36

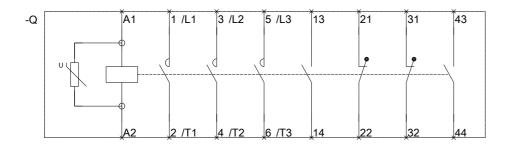
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1056-6AB36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1056-6AB36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1056-6AB36&lang=en





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last modified:

07/25/2017