SIEMENS

Data sheet 3RT1075-6LA06



Figure similar

CONTACTOR, 200KW/400V/AC-3 WITHOUT COIL AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 MAIN COND.: BAR CONNECTIONS CONVENT. OPERATING MECHANISM AUX. COND.: SCREW TERMINALS

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT1
General technical data	
Size of contactor	S12
Product extension	

General technical data	
Size of contactor	S12
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	11 00
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
	0,39 / 3 1115, 4,29 / 10 1115
Shock resistance with sine pulse	13,4g / 5 ms, 6,5g / 10 ms
• at AC	
• at DC	13,4g / 5 ms, 6,5g / 10 ms
Mechanical service life (switching cycles)	40,000,000
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	
Ambient temperature	
during operation	-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	
 at AC-3 rated value maximum 	1 000 V
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	430 A
● at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	430 A
 up to 690 V at ambient temperature 60 °C rated value 	400 A
— up to 1000 V at ambient temperature 40 °C rated value	200 A
— up to 1000 V at ambient temperature 60 °C rated value	200 A
● at AC-2 at 400 V rated value	400 A
• at AC-3	
— at 400 V rated value	400 A
— at 500 V rated value	400 A
— at 690 V rated value	400 A
— at 1000 V rated value	180 A
Connectable conductor cross-section in main circuit at AC-1	

• at 60 °C minimum permissible	240 mm²	
• at 40 °C minimum permissible	300 mm²	
Operating current for approx. 200000 operating		
cycles at AC-4		
• at 400 V rated value	150 A	
at 690 V rated value	135 A	
Operating current		
at 1 current path at DC-1		
— at 24 V rated value	400 A	
— at 110 V rated value	33 A	
— at 220 V rated value	3.8 A	
— at 440 V rated value	0.9 A	
— at 600 V rated value	0.6 A	
with 2 current paths in series at DC-1		
— at 24 V rated value	400 A	
— at 110 V rated value	400 A	
— at 220 V rated value	400 A	
— at 440 V rated value	4 A	
— at 600 V rated value	2 A	
 with 3 current paths in series at DC-1 		
— at 24 V rated value	400 A	
— at 110 V rated value	400 A	
— at 220 V rated value	400 A	
— at 440 V rated value	11 A	
— at 600 V rated value	5.2 A	
Operating current		
 at 1 current path at DC-3 at DC-5 		
— at 24 V rated value	400 A	
— at 110 V rated value	3 A	
— at 220 V rated value	0.6 A	
— at 440 V rated value	0.18 A	
— at 600 V rated value	0.125 A	
 with 2 current paths in series at DC-3 at DC-5 		
— at 24 V rated value	400 A	
— at 110 V rated value	400 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	400 A	
— at 110 V rated value	400 A	

— at 220 V rated value	400 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	151 kW
— at 400 V rated value	263 kW
— at 400 V at 60 °C rated value	263 kW
— at 690 V rated value	454 kW
— at 690 V at 60 °C rated value	454 kW
— at 1000 V at 60 °C rated value	329 kW
at AC-2 at 400 V rated value	200 kW
• at AC-3	
— at 230 V rated value	132 kW
— at 400 V rated value	200 kW
— at 500 V rated value	250 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
Operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	85 kW
• at 690 V rated value	133 kW
Thermal short-time current limited to 10 s	3 200 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	35 W
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	700 1/h
• at AC-2 maximum	200 1/h
• at AC-3 maximum	500 1/h
• at AC-4 maximum	130 1/h
Control circuit/ Control	
Type of voltage of the control supply voltage	AC/DC
Closing delay	45 400
• at AC	45 100 ms
• at DC	45 100 ms
Opening delay	60 400
• at AC	60 100 ms
• at DC	60 100 ms
Arcing time	10 15 ms

Auxiliary circuit	
Number of NC contacts	
• for auxiliary contacts	
instantaneous contact	2
Number of NO contacts	
• for auxiliary contacts	
— instantaneous contact	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	361 A
• at 600 V rated value	382 A
Yielded mechanical performance [hp]	
• for three-phase AC motor	
— at 200/208 V rated value	125 hp
— at 220/230 V rated value	150 hp
— at 460/480 V rated value	300 hp
— at 575/600 V rated value	400 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

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

Fuse gG: 630 A

Fuse gG: 500 A

fuse gG: 10 A

Mounting position	+/-180° rotation possible on vertical mounting surface; can be
Modifiang position	tilted forward and backward by +/- 22.5° on vertical mounting
	·
	surface
Mounting type	screw fixing
 Side-by-side mounting 	Yes
Height	214 mm
Width	160 mm
Depth	225 mm
Required spacing	
for grounded parts	
— 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			
 at AWG conductors for main contacts 	2/0 500 kcmil		
Type of connectable conductor cross-sections			
 for auxiliary contacts 			
— 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)		
 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-	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





ABS



RMRS



DNVGL.COM/AF

Type Examination
Certificate



Test Certificates	Marine / Shipping		other	other	
Special Test Certificate	CAN BURNE		Zekarence Acoult	Confirmation	Environmental Confirmations

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=3RT1075-6LA06

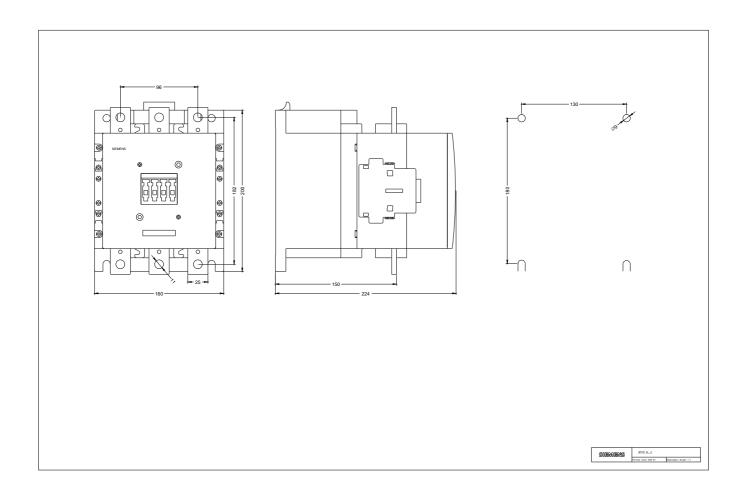
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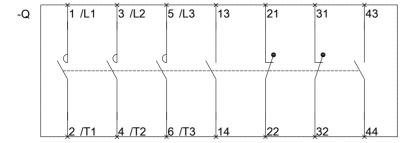
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6LA06

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6LA06&lang=en





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