

Control Parts Call to Order 717-209-7100

Data sheet

3RT1075-6AP36

Power contactor, AC-3 400 A, 200 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S12 Busbar connections Drive: conventional screw terminal



Figure similar

Product brand name	SIRIUS		
Product designation	Power contactor		
Product type designation	3RT1		
General technical data			
Size of contactor	S12		
Product extension			
 function module for communication 	No		
Auxiliary switch	Yes		
 Surge voltage resistance of main circuit rated value 	8 kV		
 Impulse withstand voltage of auxiliary circuit rated value 	6 kV		
maximum permissible voltage for safe isolation	-		
 between coil and main contacts acc. to EN 60947-1 	690 V		
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)				
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			
Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	К			
Ambient conditions				
Installation altitude at height above sea level				
• maximum	2 000 m			
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				
• al AU-3				
 at AC-3 — at 400 V rated value 	400 A			
	400 A 400 A			
— at 400 V rated value				

— at 1000 V rated value	180 A
Connectable conductor cross-section in main circuit	
at AC-1	
• at 60 °C minimum permissible	240 mm ²
• at 40 °C minimum permissible	300 mm ²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	150 A
at 400 V rated value 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	65 U.V.
• 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
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

value of magnet coll at DC initial value ini		
• initial value0.8• Full-scale value1.1Operating range factor control supply voltage rated value of magnet coll at AC0.8 1.1• at 50 Hz0.8 1.1• at 60 Hz0.8 1.1• at 50 Hz0.8 1.1• at 50 Hz0.9• at 20 C60 100 ms• at 20 Hz2• for auxiliary contacts2- instantaneous contact2• for auxiliary contacts2• for auxiliary contacts2• for auxiliary contacts2• for auxiliary contacts2• instantaneous contact2• for auxiliary contacts2 </th <th>Operating range factor control supply voltage rated value of magnet coil at DC</th> <th></th>	Operating range factor control supply voltage rated value of magnet coil at DC	
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Arcing time 10 15 ms Control version of the switch operating mechanism Standard A1 - A2 uxiliary circuit Image: Standard A1 - A2 Number of NC contacts - instantaneous contact - instantaneous contact 2 Number of NO contacts - instantaneous contact - instantaneous contact 2 Operating current at AC-12 maximum 10 A Operating current at AC-15 - instantaneous • 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		
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 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 1 A 	Operating current at AC-12 maximum	10 A
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 at 500 V rated value at 690 V rated value 1 A 		
• at 690 V rated value 1 A	• at 400 V rated value	
	• at 500 V rated value	
Operating current at DC-12		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)			
LIL/CSA ratings				
UL/CSA ratings Full-load current (FLA) for three-phase AC motor				
	361 A			
Full-load current (FLA) for three-phase AC motor	361 A 382 A			
Full-load current (FLA) for three-phase AC motor • at 480 V rated value				
 Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value 				
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value Yielded mechanical performance [hp]				
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value Yielded mechanical performance [hp] • for three-phase AC motor	382 A			
 Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value 	382 A 125 hp			
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value Yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value	382 A 125 hp 150 hp			
 Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	382 A 125 hp 150 hp 300 hp			
 Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value Yielded mechanical performance [hp] for three-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Contact rating of auxiliary contacts according to UL 	382 A 125 hp 150 hp 300 hp 400 hp			
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value Yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value	382 A 125 hp 150 hp 300 hp 400 hp			
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value Yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection	382 A 125 hp 150 hp 300 hp 400 hp			
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value Yielded mechanical performance [hp] • for three-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Contact rating of auxiliary contacts according to UL Short-circuit protection Design of the fuse link	382 A 125 hp 150 hp 300 hp 400 hp			
Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value Yielded mechanical performance [hp] • for three-phase AC motor - at 200/208 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value Contact rating of auxiliary contacts according to UL Short-circuit protection Design of the fuse link • for short-circuit protection of the main circuit	382 A 125 hp 150 hp 300 hp 400 hp A600 / Q600			

nstallation/ 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

required

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
Connectable conductor cross-section for main contacts	
• stranded	70 240 mm²
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- 1 	No
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Certificates/approvals	

General Produc	t Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
	CSA		EHC	Type Examination Certificate	EG-Konf.
Test Certificates	6		Marine / Shippii	ng	
Special Test Certificate	<u>Type Test</u> Certificates/Test <u>Report</u>	Miscellaneous	ABS	RMRS	DNV-GL
other					
Miscellaneous	Confirmation				

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=3RT1075-6AP36

Cax online generator

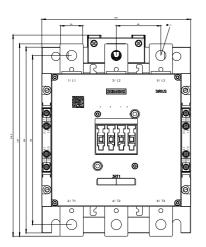
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1075-6AP36

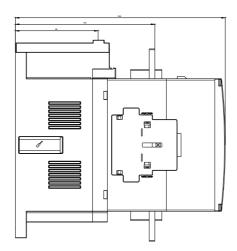
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AP36

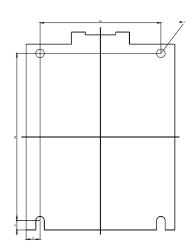
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1075-6AP36&lang=en

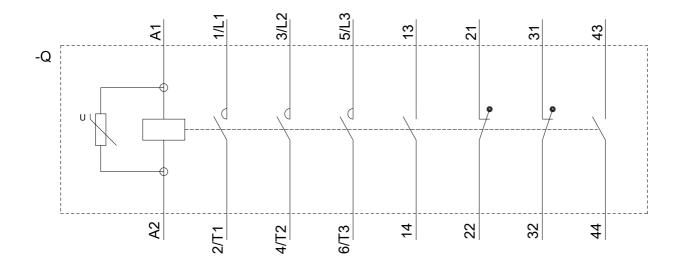
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1075-6AP36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1075-6AP36&objecttype=14&gridview=view1









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