



Data sheet

3RT1076-6AP36

Power contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 220-240 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, size S12 Busbar connections Operating mechanism: conventional screw terminals



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	610 A			
• at AC-1				
— up to 690 V at ambient temperature 40 °C rated value	610 A			
— up to 690 V at ambient temperature 60 °C rated value	550 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	500 A			
• at AC-3				
• at AC-5				
— at 400 V rated value	500 A			
	500 A 500 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	370 mm ²
• at 40 °C minimum permissible	370 mm ²
Operating current for approx. 200000 operating	
cycles at AC-4	47E A
• at 400 V rated value	175 A
at 690 V rated value	150 A
Operating current	
• at 1 current path at DC-1	400 A
— 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	208 kW
— at 400 V rated value	362 kW
— at 400 V at 60 °C rated value	362 kW
— at 690 V rated value	624 kW
— at 690 V at 60 °C rated value	624 kW
— at 1000 V at 60 °C rated value	329 kW
• at AC-2 at 400 V rated value	250 kW
● at AC-3	
— at 230 V rated value	164 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 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	98 kW
• at 690 V rated value	148 kW
Thermal short-time current limited to 10 s	4 000 A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor	55 W
No-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 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
	220 240 V
at 60 Hz rated value 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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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		
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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)
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	477 A
• at 600 V rated value	472 A
Yielded mechanical performance [hp]	
 for three-phase AC motor 	
— at 200/208 V rated value	150 hp
— at 220/230 V rated value	200 hp

— at 460/480 V rated value	400 hp	
— at 575/600 V rated value	500 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 	gG: 630 A (690 V, 100 kA)	

for short-circuit protection of the auxiliary switch required
 A (415 V, 50 kA)
 fuse gG: 10 A

- with type of assignment 2 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

gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500

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 Product	Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	(SA)		EAC	Type Examination Certificate	EG-Konf.
Test Certificates	i de la companya de l		Marine / Shippir	ng	
Type Test Certificates/Test Report	Special Test Certificate	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=3RT1076-6AP36

Cax online generator

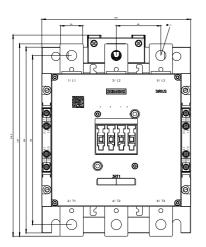
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AP36

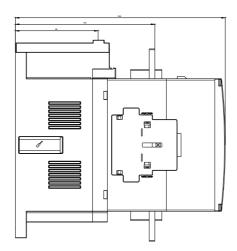
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36

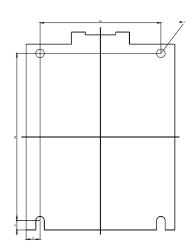
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AP36&lang=en

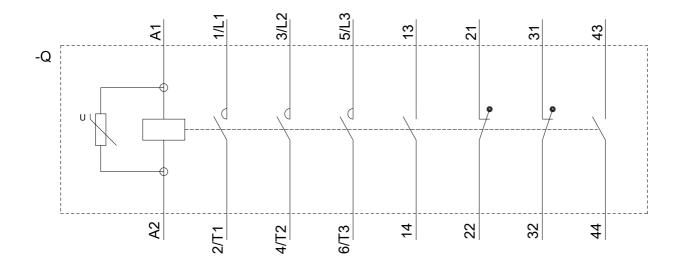
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AP36&objecttype=14&gridview=view1









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