SIEMENS

Data sheet

3RT1076-6AP36

CONTACTOR, 250KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL



Figure similar

product brandname	SIRIUS
Product designation	power contactor
General technical data	
Size of contactor	S12
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
• 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
Ambient conditions	
Installation altitude at height above sea level	2 000 m
maximum	
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
Number of NC contacts for main contacts	0
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-3	
— at 400 V rated value	500 A
— at 690 V rated value	450 A
— 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	

• at 400 V rated value	175 A
• at 690 V rated value	150 A
Operating current	
 at 1 current path at DC-1 	
— at 24 V rated value	400 A
— at 110 V rated value	33 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 110 V rated value	400 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
 with 2 current paths in series at DC-3 at DC-5 	
— at 110 V rated value	400 A
— at 24 V rated value	400 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 110 V rated value	400 A
— at 24 V rated value	400 A
Operating power	
● at AC-1	
— at 230 V at 60 °C rated value	151 kW
— at 400 V 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 W
• at AC-2 at 400 V rated value	291 kW
• at AC-3	
— at 230 V rated value	164 kW
— at 400 V rated value	250 kW
— at 500 V rated value	363 kW
— at 690 V rated value	453 kW
— at 1000 V rated value	250 W
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
 at 50 Hz rated value at 60 Hz rated value 	220 240 V 220 240 V
	220 240 V
Control supply voltage at DC	220 240 V
rated value	50 Hz
Control supply voltage frequency 1 rated value	60 Hz
Control supply voltage frequency 2 rated value Operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
Operating range factor control supply voltage rated value of magnet coil at DC	0.8 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of magnet coil at AC	830 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of magnet coil at AC	9.2 V·A
Inductive power factor with the holding power of the coil	0.9
Closing power of magnet coil at DC	920 W
Holding power of magnet coil at DC	10 W
Closing delay	
• at AC	45 100 ms
• at DC	45 100 ms
Opening delay	
• 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	
•	2
— instantaneous contact	2 10 A
Operating current at AC-12 maximum	
Operating current at AC-15	6.4
• at 230 V rated value	6 A
• at 400 V rated value	3 A
Operating current at DC-12	
• at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 220 V rated value	1 A
Operating current at DC-13	
• at 24 V rated value	10 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 220 V rated value	0.3 A
UL/CSA ratings	
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 gL/gG: 630 A
— with type of assignment 2 required	fuse gL/gG: 500 A
 for short-circuit protection of the auxiliary switch 	fuse gL/gG: 10 A
required	
Installation/ mounting/ dimensions	
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	
Connections/Terminals Type of electrical connection	
	screw-type terminals
Type of electrical connection	screw-type terminals screw-type terminals

 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)		
— 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		

C	Certificates/approvals
	General Product Approval

General Prod	uct Approval			Declaration of Conformity	Test Certificates
	(SA)		EHC	EG-Konf.	Typprüfbescheinigu ng/Werkszeugnis
Test Certifica	tes	Shipping Ap	proval		other

Test Certificates		Shipping Approval			Ourier	
spezielle Prüfbescheinigunge n	sonstig	THCAN BURN PL	GL®		Bestätigungen	
-		ABS	GL	RMRS		

other

Umweltbestätigung

Further information

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

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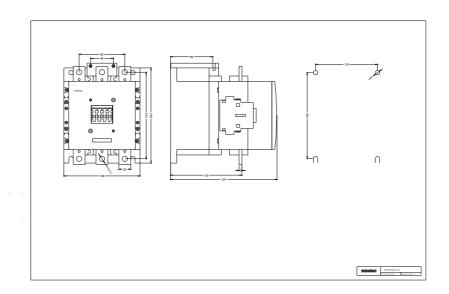
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1076-6AP36

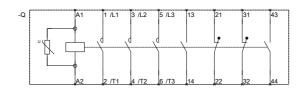
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AP36

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





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