SIEMENS

Data sheet 3RT1076-6AP36

Figure similar

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

product brand name	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
Mechanical service life (switching cycles)	
• of the 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
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

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 NC contacts for main contacts	0
Number of NO contacts for main contacts	3
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	370 mm²
• at 40 °C minimum permissible	370 mm²
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
— at ambient temperature 60 °C Rated value	550 A
• at AC-3	
— at 400 V Rated value	500 A
— at 690 V Rated value	450 A
• at AC-4 at 400 V Rated value	430 A
Operating current for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	175 A
• at 690 V Rated value	150 A
Operating current	
• with 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	
• with 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 690 V at 60 °C Rated value	624 kW
Operating power for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	98 kW
• at 690 V Rated value	148 kW
Thermal short-time current restricted to 10 s	4 000 A
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	55 W
No-load switching frequency	
• with AC	2 000 1/h
• for 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 with AC	
• at 50 Hz Rated value	220 ... 240 V
• at 60 Hz Rated value	220 ... 240 V
Control supply voltage for DC	
• Rated value	220 ... 240 V
• Rated value	40 Hz
Control supply voltage frequency 2 Rated value	60 Hz
Operating range factor control supply voltage rated value of the magnet coil with AC	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.8 ... 1.1
Operating range factor control supply voltage rated value of the magnet coil for DC	0.8 ... 1.1
Design of the surge suppressor	with varistor
Apparent pick-up power of the magnet coil with AC	830 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil with AC	9.2 V·A
Inductive power factor with the holding power of the coil	0.9
Closing power of the magnet coil for DC	920 W

Holding power of the magnet coil for DC	10 W
Closing delay	
• with AC	45 ... 100 ms
• for DC	45 ... 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
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 the auxiliary contacts acc. to UL	A600 / Q600

Short-circuit:	
Design of the fuse link	
• for short-circuit protection of the main circuit	
— with type of assignment 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 required	fuse gL/gG: 10 A

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:

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-section	
• for AWG conductors for main contacts	2/0 ... 500 kcmil
Type of connectable conductor cross-section	
• 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)
• for AWG conductors for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 1x 12

Certificates/ approvals:

General Product Approval				Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	CSA	EAC	UL	Type Examination	EG-Konf.

Test Certificates			Shipping Approval		
Type Test Certificates/Test Report	Special Test Certificate	other	ABS	DNV	GL

Shipping Approval	other		
RMRS	Confirmation	Environmental Confirmations	other

Further information

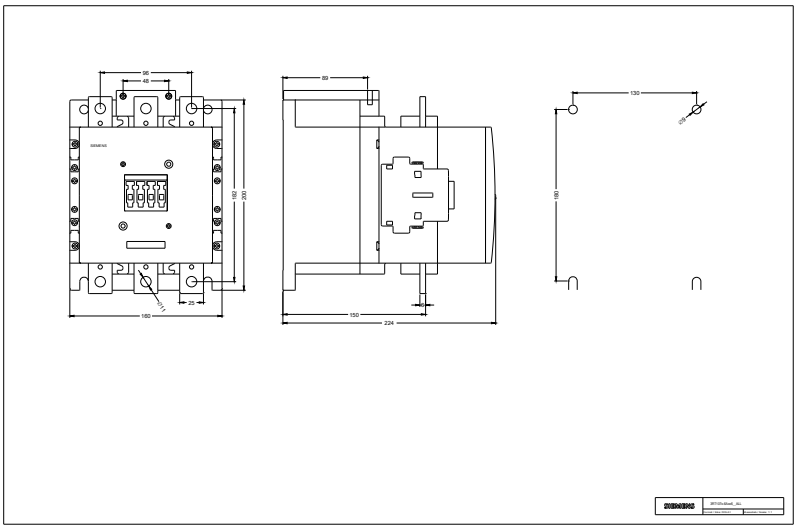
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

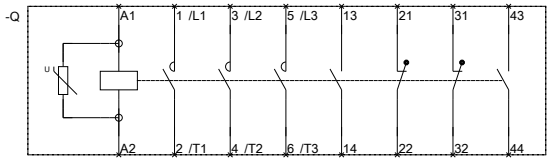
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10766AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RT10766AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10766AP36&lang=en





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