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:		
Insulation voltage		
• Rated value	V	1 000
Degree of pollution		3
Surge voltage resistance Rated value	kV	8
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
Thermal short-time current restricted to 10 s	A	4 000
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

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
Operating current		

• at AC-1		
— at 400 V at ambient temperature 40 °C Rated value	A	610
— up to 690 V at ambient temperature 40 °C Rated value	A	610
— up to 690 V at ambient temperature 60 °C Rated value	A	550
• at AC-3		
— at 400 V Rated value	A	500
— at 690 V Rated value	A	450
• at AC-4 at 400 V Rated value	A	430
Operating current with 1 current path		
• at DC-1		
— at 24 V Rated value	A	400
— at 110 V Rated value	A	33
• at DC-3 at DC-5		
— at 24 V Rated value	A	400
— at 110 V Rated value	A	3
Operating current with 2 current paths in series		
• at DC-1		
— at 24 V Rated value	A	400
— at 110 V Rated value	A	400
• at DC-3 at DC-5		
— at 110 V Rated value	A	400
— at 24 V Rated value	A	400
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	A	400
— at 110 V Rated value	A	400
• at DC-3 at DC-5		
— at 110 V Rated value	A	400
— at 24 V Rated value	A	400
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	151
— at 690 V at 60 °C Rated value	kW	624
Operating power for ≥ 200000 operating cycles at AC-4		
• at 400 V Rated value	kW	98
• at 690 V Rated value	kW	148
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	W	55

Operating frequency		
• at AC-1 maximum	1/h	500
• at AC-2 maximum	1/h	170
• at AC-3 maximum	1/h	420
• at AC-4 maximum	1/h	130
No-load switching frequency		
• with AC	1/h	2 000
• for DC	1/h	2 000

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
• at 50 Hz Rated value	V	220 ... 240
• at 60 Hz Rated value	V	220 ... 240
Control supply voltage for DC		
• Rated value	V	220 ... 240
• Rated value	Hz	40
Control supply voltage frequency 2 Rated value	Hz	60
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
Closing power of the magnet coil for DC	W	920
Holding power of the magnet coil for DC	W	10

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-15		
• at 230 V Rated value	A	6
• at 400 V Rated value	A	3

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	mm	214
Width	mm	160
Depth	mm	225
Required spacing		
• for grounded parts		
— at the side	mm	10
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
• 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
Mechanical data:		
Size of contactor		S12
Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-55 ... +80
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

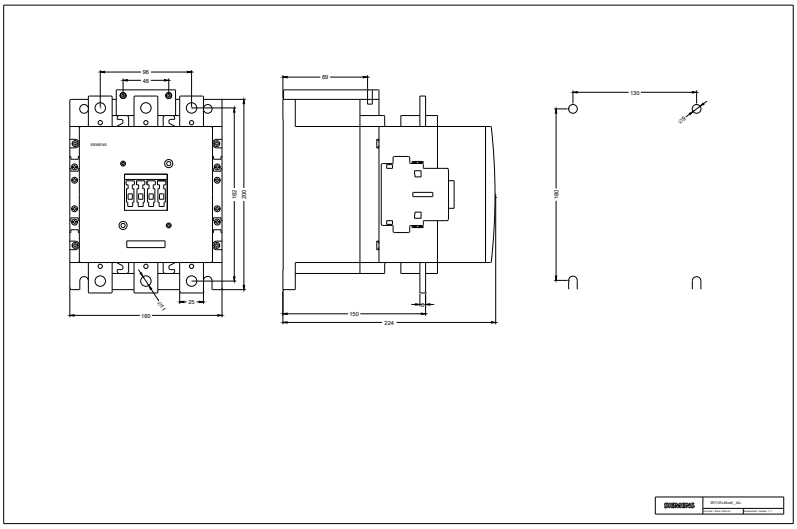
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

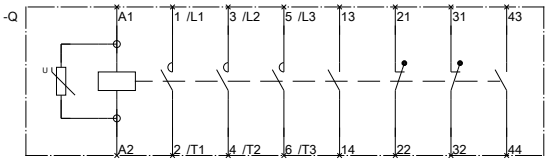
Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

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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