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Data sheet 3RT1066-6AP36



Figure similar

CONTACTOR, 160KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220-240V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S10 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

product brand name	SIRIUS
Product designation	power contactor

General technical data:

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
Thermal short-time current restricted to 10 s	2 400 A
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	

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• at AC-1	
— at 400 V at ambient temperature 40 °C Rated value	330 A
— up to 690 V at ambient temperature 40 °C Rated value	330 A
— up to 690 V at ambient temperature 60 °C Rated value	300 A
• at AC-3	
— at 400 V Rated value	300 A
— at 690 V Rated value	280 A
• at AC-4 at 400 V Rated value	280 A
Operating current with 1 current path	
• at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	33 A
• at DC-3 at DC-5	
— at 24 V Rated value	300 A
— at 110 V Rated value	3 A
Operating current with 2 current paths in series	
• at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	300 A
• at DC-3 at DC-5	
— at 110 V Rated value	300 A
— at 24 V Rated value	300 A
Operating current with 3 current paths in series	
• at DC-1	
— at 24 V Rated value	300 A
— at 110 V Rated value	300 A
• at DC-3 at DC-5	
— at 110 V Rated value	300 A
— at 24 V Rated value	300 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	113 kW
— at 690 V at 60 °C Rated value	340 kW
Operating power for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	71 kW
• at 690 V Rated value	112 kW
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	22 W

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Operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-4 maximum	130 1/h
No-load switching frequency	
• with AC	2 000 1/h
• for DC	2 000 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
Closing power of the magnet coil for DC	650 W
Holding power of the magnet coil for DC	7.4 W

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	6 A
• at 400 V Rated value	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	

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— with type of assignment 1 required	fuse gL/gG: 500 A
— with type of assignment 2 required	fuse gL/gG: 400 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	210 mm
Width	145 mm
Depth	202 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
• 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	S10

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

Certificates/ approvals:

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

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

Shipping Approval	other		
RMRS	other	Environmental Confirmations	Confirmation

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=3RT10666AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RT10666AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10666AP36&lang=en

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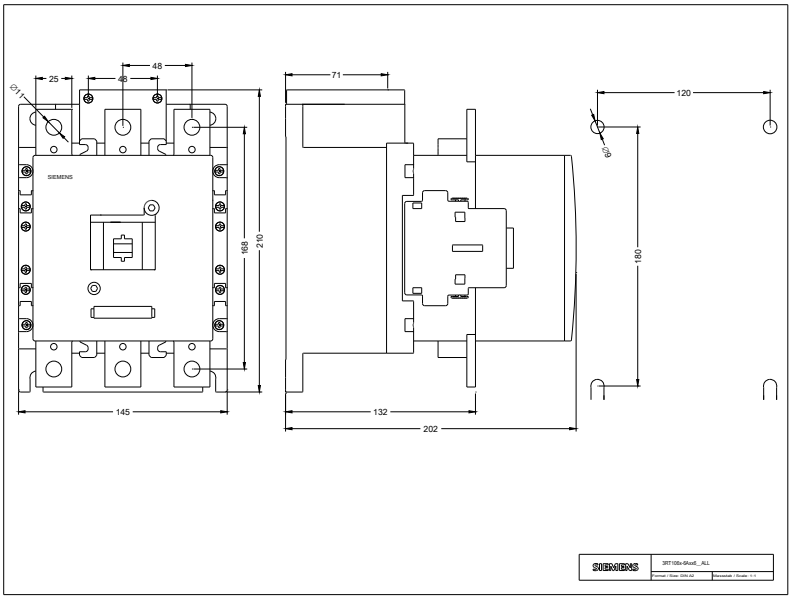

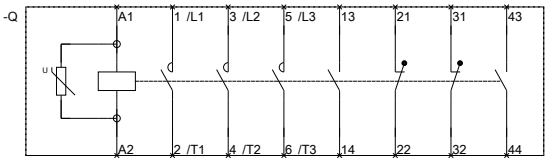

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