SIEMENS

Data sheet

3RT1266-6AP36



VAC. 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

product brand name SIRIUS Product designation power contactor General technical data: S10 Size of contactor S10 Insulation voltage 1 000 V • Rated value 1 000 V Degree of pollution 3 Surge voltage resistance Rated value 8 kV Mechanical service life (switching cycles) 0 000 000 • of the contactor typical 10 000 000 • of the contactor with added electronics-compatible auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 Protection class IP IP00 • of the terminal IP00 • acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2 Q 000 m		
General technical data: Size of contactor S10 Insulation voltage 1 000 V Pegree of pollution 3 Surge voltage resistance Rated value 8 kV Mechanical service life (switching cycles) 000 000 • of the contactor typical 10 000 000 • of the contactor with added electronics- 5 000 000 compatible auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the terminal IP00 Equipment marking IP00 • acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2 Q Ambient conditions: 2 000 m maximum 2 000 m	product brand name	SIRIUS
Size of contactor S10 Insulation voltage 1 000 V Degree of pollution 3 Surge voltage resistance Rated value 8 kV Mechanical service life (switching cycles) 0 000 000 • 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 10 000 000 • of the terminal IP00 Equipment marking acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 Q Ambient conditions: 2 000 m Installation atitude at height above sea level maximum 2 000 m	Product designation	power contactor
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	Mechanical service life (switching cycles)	
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• on the frontIP00• of the terminalIP00Equipment markingIP00• acc. to DIN EN 61346-2Q• acc. to DIN EN 81346-2Q• acc. to DIN EN 81346-2Q• acc. to DIN EN 81346-2Q• acc. to DIN EN 81346-22000 mAmbient conditions:2 000 m• maximum2 000 m	block typical	
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Ambient conditions: 2 000 m Installation altitude at height above sea level 2 000 m Ambient temperature 2 000 m	• acc. to DIN EN 61346-2	Q
Installation altitude at height above sea level 2 000 m maximum Ambient temperature	• acc. to DIN EN 81346-2	Q
maximum Ambient temperature	Ambient conditions:	
Ambient temperature	-	2 000 m
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05 00 00	Ambient temperature	
• during operation -25 +60 °C	 during operation 	-25 +60 °C

during storage

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	105
• at 60 °C minimum permissible	185 mm ²
• at 40 °C minimum permissible	185 mm ²
Operating current	
• at AC-1 at 400 V	
— at ambient temperature 40 °C Rated value	330 A
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	330 A
— at ambient temperature 60 °C Rated value	300 A
• at AC-3	
— at 400 V Rated value	300 A
— at 690 V Rated value	300 A
• at AC-4 at 400 V Rated value	280 A
Operating current for \geq 200000 operating cycles at AC-4	
• at 400 V Rated value	140 A
● at 690 V Rated value	98 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 \geq 200000 operating cycles at	
AC-4	
• at 400 V Rated value	79 kW
• at 690 V Rated value	138 kW
Thermal short-time current restricted to 10 s	2 400 A
Active power loss at AC-3 at 400 V for rated value of	14 W
the operating current per conductor	
No-load switching frequency	
• with AC	2 000 1/h
• for DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	750 1/h
● at AC-4 maximum	250 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	630 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil with AC	7.4 V·A
Inductive power factor with the holding power of the coil	0.9
Closing power of the magnet coil for DC	700 W
Holding power of the magnet coil for DC	8.2 W
Closing delay	
• with AC	30 95 ms
• for DC	30 95 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: 500 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	210 mm
Width	145 mm
Depth	206 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 mm ²), 2x (0.75 2.5 mm ²)
• for AWG conductors for auxiliary contacts	2x (20 16), 2x (18 14), 1x 12
Certificates/ approvals:	

General Product	t Approval			Functional Safety/Safety of Machinery	Declaration of Conformity
CCC	CSA		EHC	Type Examination	EG-Konf.
Test Certificates	5	Shipping Approval			
Special Test Certificate	Type Test Certificates/Test <u>Report</u>	ABS		GL	RMRS
other					
Environmental Confirmations	other	Confirmation			

Further information

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

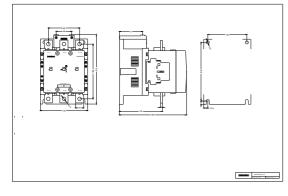
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT12666AP36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT12666AP36

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT12666AP36&lang=en





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