SIEMENS

Data sheet

3RT1076-6AF36



CONTACTOR, 250KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 110-127V AUXILIARY CONTACTS 2NO+2NC 3-POLE, SIZE S12 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

nreduct brand nome	SIRIUS
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	2 000 m
maximum	
Ambient temperature	
 during operation 	-25 +60 °C

-55 ... +80 °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-1 370 mm² • at 60 °C minimum permissible 370 mm² • at 40 °C minimum permissible **Operating current** • at AC-1 at 400 V 610 A - at ambient temperature 40 °C Rated value • at AC-1 up to 690 V 610 A - at ambient temperature 40 °C Rated value 550 A - at ambient temperature 60 °C Rated value • at AC-3 500 A - at 400 V Rated value - 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-4 175 A • at 400 V Rated value 150 A • at 690 V Rated value **Operating current** • with 1 current path at DC-1 400 A - at 24 V Rated value 33 A - at 110 V Rated value • with 2 current paths in series at DC-1 400 A - at 24 V Rated value 400 A - at 110 V Rated value with 3 current paths in series at DC-1 400 A - at 24 V Rated value 400 A - at 110 V Rated value **Operating current** • with 1 current path at DC-3 at DC-5 400 A - at 24 V Rated value - 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 400 A - at 24 V Rated value • 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	55 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	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	110 127 V
• at 60 Hz Rated value	110 127 V

• at 60 Hz Rated value	110 127 V
Control supply voltage for DC	
Rated value	110 127 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 	fuse gL/gG: 10 A
required	
Installation/ mounting/ dimensions:	Entre Civile a
Mounting type	screw fixing
Side-by-side mounting	Yes
Height	214 mm
Width	160 mm
Depth	225 mm
Required spacing	

 for grounded particular 	arts					
	 for grounded parts — at the side 		10 mm			
Connections/ Termi	nals	-				
Type of electrical cor		_				
 for main current 			screw-type terminals			
 for auxiliary and 	d control current circu	uit	screw-type terminals			
Type of connectable						
	uctors for main contac		2/0 500 kcmil			
Type of connectable	conductor cross-sec	tion				
	for auxiliary contacts					
— solid			2x (0.5 1.5 mm²), 2x	(0.75 2.5 mm ²), ma	x. 2x (0.75 4 mm²)	
	nded with core end p	ocessing	2x (0.5 1.5 mm²), 2x		· · · · · · · · · · · · · · · · · · ·	
-	uctors for auxiliary co		2x (20 16), 2x (18	. ,		
		IIIduis	2x (20 10), 2x (10	17), IX IZ		
Certificates/ approva	als:					
General Product	t Approval			Functional Safety/Safety of Machinery	Declaration of Conformity	
CCC	CSA		EHC	Type Examination	EG-Konf.	
Test Certificates	Test Certificates			Shipping Approval		
Special Test Certificate	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>other</u>	ABS	DNV DNV	GL	
Shipping Approval	other					
RMRS	<u>other</u>	Environmenta Confirmation				

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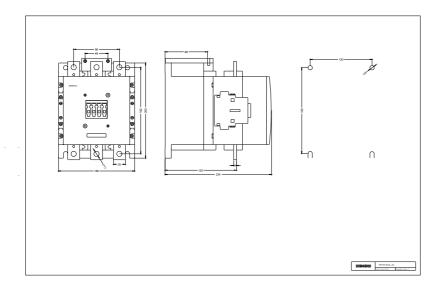
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last modified:

3RT106.-.A..6_01_4_IEC.DXF 3RT107.-.A..6_01_4_IEC.DXF

02.06.2015