SIEMENS

Data sheet

3RT1056-6AB36



CONTACTOR, 90KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 23...26V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENT. OPERATING MECHANSIM SCREW TERMINAL

product brand name	SIRIUS			
Product designation	power contactor			
General technical data:				
Size of contactor	S6			
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			

-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 95 mm² • at 60 °C minimum permissible 95 mm² • at 40 °C minimum permissible **Operating current** • at AC-1 at 400 V 215 A - at ambient temperature 40 °C Rated value • at AC-1 up to 690 V 215 A - at ambient temperature 40 °C Rated value 185 A - at ambient temperature 60 °C Rated value • at AC-3 185 A - at 400 V Rated value - at 690 V Rated value 170 A • at AC-4 at 400 V Rated value 160 A Operating current for ≥ 200000 operating cycles at AC-4 81 A • at 400 V Rated value 65 A • at 690 V Rated value **Operating current** • with 1 current path at DC-1 160 A - at 24 V Rated value 18 A - at 110 V Rated value • with 2 current paths in series at DC-1 160 A - at 24 V Rated value 160 A - at 110 V Rated value with 3 current paths in series at DC-1 160 A - at 24 V Rated value 160 A - at 110 V Rated value **Operating current** • with 1 current path at DC-3 at DC-5 160 A - at 24 V Rated value - at 110 V Rated value 2.5 A • with 2 current paths in series at DC-3 at DC-5 - at 110 V Rated value 160 A 160 A - at 24 V Rated value • with 3 current paths in series at DC-3 at DC-5

— at 110 V Rated value	160 A
— at 24 V Rated value	160 A
Operating power	
• at AC-1	
— at 230 V at 60 °C Rated value	70 kW
— at 690 V at 60 °C Rated value	210 kW
Operating power for ≥ 200000 operating cycles at AC-4	
• at 400 V Rated value	45 kW
• at 690 V Rated value	65 kW
Thermal short-time current restricted to 10 s	1 480 A
Active power loss at AC-3 at 400 V for rated value of the operating current per conductor	13 W
No-load switching frequency	
• with AC	2 000 1/h
• for DC	2 000 1/h
Operating frequency	
• at AC-1 maximum	800 1/h
• at AC-2 maximum	300 1/h
• at AC-3 maximum	750 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	23 26 V
• at 60 Hz Rated value	23 26 V
Control supply voltage for DC	
Deted volue	22 26 \/

	25 20 V
Control supply voltage for DC	
Rated value	23 26 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	300 V·A
Inductive power factor with closing power of the coil	0.9
Apparent holding power of the magnet coil with AC	5.8 V·A
Inductive power factor with the holding power of the coil	0.8
Closing power of the magnet coil for DC	360 W

Holding power of the magnet coil for DC	5.2 W
Closing delay	
• with AC	20 95 ms
• for DC	20 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: 355 A
 — with type of assignment 2 required 	fuse gL/gG: 315 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	172 mm
Width	120 mm
Depth	170 mm
Required spacing	

 for grounded parts 					
— at the side	10 m	m			
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 	4 250 kcmil				
Type of connectable conductor cross-section					
 for auxiliary contacts 					
— solid	2x (0	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	Declaration of	Test	
		Safety/Safety	Conformity	Certificates	

		Safety/Safety of Machinery	Conformity	Certificates
CSA	EHC	Type Examination	EG-Konf.	Special Test Certificate



 other
 Environmental Confirmations
 Confirmation

urther information

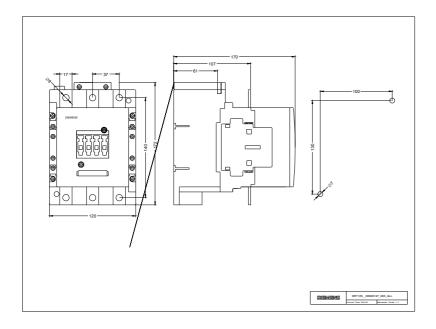
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