SIEMENS

Data sheet 3RT1056-6AU36



CONTACTOR, 90KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 240...277V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENT. OPERATING MECHANISM SCREW TERMINAL

Figure similar

product brand name	SIRIUS
Product designation	power contactor

Size of contactor	S6
Insulation voltage	
Rated value	1 000 V
Surge voltage resistance Rated value	8 kV
Protection class IP	
• on the front	IP00
• of the terminal	IP00
Degree of pollution	3
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

Ambient conditions:		
Installation altitude at height above sea level	2 000 m	
maximum		
Ambient temperature		
during operation	-25 +60 °C	
during storage	-55 +80 °C	

Main circuit:	
Number of NO contacts for main contacts	3

Number of NO contacts for main contacts	0
Number of NC contacts for main contacts	0
Operating current	
• at AC-1 at 400 V	215 A
— at ambient temperature 40 °C Rated value	215 A
• at AC-1 up to 690 V	045.4
— at ambient temperature 40 °C Rated value	215 A
— at ambient temperature 60 °C Rated value	185 A
• at AC-3	405.4
— at 400 V Rated value	185 A
— at 690 V Rated value	170 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	95 mm²
• at 40 °C minimum permissible	95 mm²
Operating current for ≥ 200000 operating cycles at	
AC-4	
• at 400 V Rated value	81 A
at 690 V Rated value	65 A
Operating current	
with 1 current path at DC-1	
— at 24 V Rated value	160 A
— at 110 V Rated value	18 A
with 2 current paths in series at DC-1	
— at 24 V Rated value	160 A
— at 110 V Rated value	160 A
 with 3 current paths in series at DC-1 	
— at 24 V Rated value	160 A
— at 110 V Rated value	160 A
Operating current	
with 1 current path at DC-3 at DC-5	
— at 24 V Rated value	160 A
— 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
— at 24 V Rated value	160 A
• 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 400 V Rated value	121 kW

— at 690 V Rated value	210 kW
— at 690 V at 60 °C Rated value	210 kW
• at AC-2 at 400 V Rated value	104 kW
• at AC-3	
— at 230 V Rated value	61 kW
— at 400 V Rated value	104 kW
— at 500 V Rated value	132 kW
— at 690 V Rated value	167 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	13 W
the operating current per conductor	
No-load switching frequency	
● at AC	2 000 1/h
• at 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:	

Control circuit/ Control:		
Type of voltage of the control supply voltage	AC/DC	
Control supply voltage at AC		
● at 50 Hz Rated value	240 277 V	
• at 60 Hz Rated value	240 277 V	
Control supply voltage at DC		
Rated value	240 277 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 at 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 at DC	0.8 1.1	
Design of the surge suppressor	with varistor	
Apparent pick-up power of the magnet coil at AC	300 V·A	
Inductive power factor with closing power of the coil	0.9	
Apparent holding power of the magnet coil at AC	5.8 V·A	

Inductive power factor with the holding power of the coil	0.8
Closing power of the magnet coil at DC	360 W
Holding power of the magnet coil for DC	5.2 W
Closing delay	
• at AC	20 95 ms
• at DC	20 95 ms
Opening delay	
• at AC	40 60 ms
• at DC	40 60 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 required 	fuse gL/gG: 10 A
Installation/ mounting/ dimensions:	

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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 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 	4 250 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 mm²), 2x (0.75 2.5 mm²)			
 for AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12			

С	ertificates/	approvals:
Ĩ	General	Product Approval

Functional Safety/Safety of Machinery Declaration of Conformity

Test Certificates







Baumusterbescheini gung



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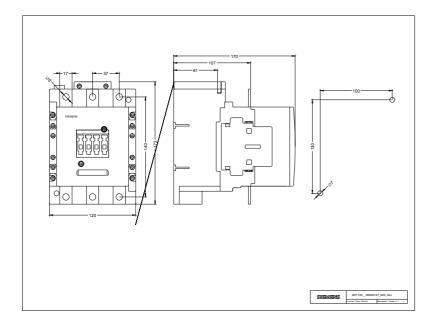
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