SIEMENS

Data sheet 3RT1056-6AF36



CONTACTOR, 90KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 110...127V AUXIL. CONTACTS 2NO+2NC 3-POLE, SIZE S6 BAR CONNECTIONS CONVENTION. OPERATING MECHANISM SCREW TERMINAL

Figure similar

product brand name	SIRIUS
Product designation	power contactor

nsulation voltage			
Rated value		1 000	
Degree of pollution		3	
Surge voltage resistance Rated value	kV	8	
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	Α	1 480	
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		

• at AC-1		
— at 400 V at ambient temperature 40 °C	Α	215
Rated value		
— up to 690 V at ambient temperature 40 °C	Α	215
Rated value		
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$	Α	185
Rated value		
• at AC-3		
— at 400 V Rated value	Α	185
— at 690 V Rated value	Α	170
● at AC-4 at 400 V Rated value	Α	160
Operating current with 1 current path		
● at DC-1		
— at 24 V Rated value	Α	160
— at 110 V Rated value	Α	18
• at DC-3 at DC-5		
— at 24 V Rated value	Α	160
— at 110 V Rated value	Α	2.5
Operating current with 2 current paths in series		
● at DC-1		
— at 24 V Rated value	Α	160
— at 110 V Rated value	Α	160
• at DC-3 at DC-5		
— at 110 V Rated value	Α	160
— at 24 V Rated value	Α	160
Operating current with 3 current paths in series		
• at DC-1		
— at 24 V Rated value	Α	160
— at 110 V Rated value	Α	160
• at DC-3 at DC-5		
— at 110 V Rated value	Α	160
— at 24 V Rated value	Α	160
Operating power		
• at AC-1 at 400 V Rated value	kW	121
• at AC-2 at 400 V Rated value	kW	104
• at AC-4 at 400 V Rated value	W	90 000
Operating power		
• at AC-1		
— at 230 V at 60 °C Rated value	kW	70
— at 690 V at 60 °C Rated value	kW	210
— at 690 V Rated value	kW	210
• at AC-3		

— at 230 V Rated value	kW	61
— at 400 V Rated value	kW	104
— at 500 V Rated value	kW	132
— at 690 V Rated value	kW	167
Operating power for ≥ 200000 operating cycles at		
AC-4		
● at 400 V Rated value	kW	45
• at 690 V Rated value	kW	65
Operating frequency		
• at AC-3 maximum	1/h	750

Control circuit/ Control:		
Type of voltage of the control supply voltage		AC/DC
Control supply voltage with AC		
● at 50 Hz Rated value	V	110 127
● at 60 Hz Rated value	V	110 127
Control supply voltage for DC		
Rated value	V	110 127
Rated value	Hz	40
Control supply voltage frequency 2 Rated value	Hz	60
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		0.8 1.1
value of the magnet coil for DC		
Design of the surge suppressor		with varistor
Apparent pick-up power of the magnet coil with AC	V·A	300
Apparent holding power of the magnet coil with AC	V·A	5.8
Closing power of the magnet coil for DC	W	360
Holding power of the magnet coil for DC	W	5.2
Inductive power factor		
 with closing power of the coil 		0.9
 with the holding power of the coil 		0.8

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	Α	6

• at 400 V Rated value	A 3		
Operating current			
• at DC-12 at 220 V Rated value	Α	1	
• at DC-13 at 220 V Rated value	Α	0.3	
Operating current			
• at DC-12			
— at 60 V Rated value	Α	6	
— at 110 V Rated value	Α	3	
• at DC-13			
— at 24 V Rated value	Α	10	
— at 60 V Rated value	Α	2	
— at 110 V Rated value	Α	1	
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: Mounting type		screw fixing	
Side-by-side mounting		Yes	
Height	mm	172	
Width	mm	120	
Depth	mm	170	
Required spacing			
• for grounded parts			
— at the side	mm	10	
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	
• 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		S6
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-25 + 60
during storage	°C	-55 + 80

General Prod	luct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
(P)	(UL	EHC	Type Examination	C E	Type Test Certificates/Test Report

Test Certificates

CSA

Shipping Approval

Special Test Certificate

other

UL







EG-Konf.





other

Confirmation

Environmental Confirmations

other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

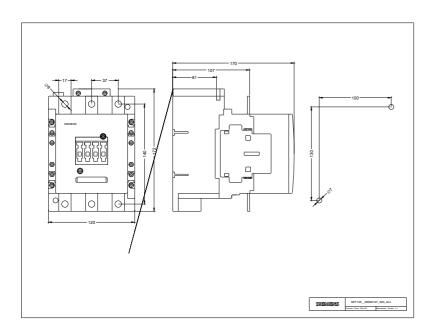
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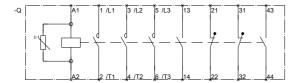
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10566AF36

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT10566AF36/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10566AF36&lang=en





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last modified: 11.03.2015