SIEMENS

Data sheet 3RT1056-6AV36



CONTACTOR, 90KW/400V/AC-3, AC(40...60HZ)/DC OPERATION UC 380...420V 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

nsulation voltage		
Rated value	V	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 °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	380 420		
● at 60 Hz Rated value	V	380 420		
Control supply voltage for DC				
Rated value	V	380 420		
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	Α	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		fuse gL/gG: 10 A		
required				
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		

Certificates/ approvals:

General Prod	luct Approval		Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
(SA)	(UL	EAC	Type Examination	CE EG-Konf.	Type Test Certificates/Test Report

Test Certificates	Shipping App	proval		other
Special Test Certificate	TO SHIPP W	<u> </u>	GL	Confirmation

GL

RMRS

other

Environmental Confirmations

other

ABS

Further information

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

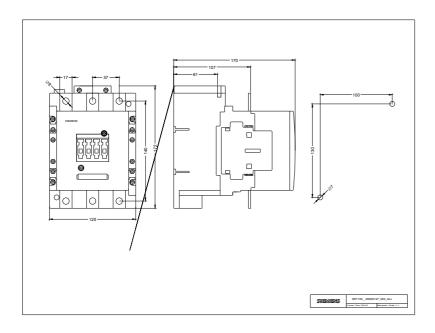
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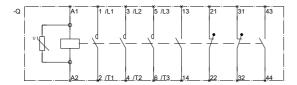
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT10566AV36/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=3RT10566AV36&lang=en





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