SIEMENS

Product data sheet



OVERLOAD RELAY 1...4 A FOR MOTOR PROTECTION SIZE S00,

CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SPR.-LOAD.TERM. AUX.CIRCUIT: SPR.-LOAD.TERM. MANUAL-AUTOM.-RESET INT. GROUND FAULT DETECTION

General technical data:		
Product brand name		SIRIUS
product designation		solid-state overload relay
Protection class IP / on the front		IP20
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2,000
Ambient temperature		
during storage	°C	-40 80
during transport	°C	-40 80
during operating	°C	-25 60
Relative humidity		
during operating phase	/ %	95
EMC immunity to interference		
according to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference		
according to IEC 60947-1		CISPR 11, environment B (residential area)
Conductor-bound parasitic coupling BURST		
according to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-earth SURGE		

according to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE		
according to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3
Electrostatic discharge		
according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling		
according to IEC 61000-4-3		10 V/m
Resistance against shock		15g / 11 ms
Impulse voltage resistance / rated value	kV	6
Active power loss / total / typical	W	0.05
Item designation		
 according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 		F
according to DIN EN 61346-2		F
Size of overload relay		S00
Size of the contactor / can be combined / company-specific		S00
type of protection		PTB 09 ATEX 3001 Ex II (2) GD
Type of assignement		2
Trip class		CLASS 5, 10, 20 and 30 adjustable
Main circuit:		
Number of poles / for main current circuit		3
Operating voltage / at AC-3 / rated value		
• maximum	V	690
Operating current / at AC-3 / at 400 V		
rated value	А	4
Adjustable response current		
• of the current-dependent overload release	А	1 4
Service power / for three-phase servomotors / at 400 V / at 50 Hz		
for AC three-phase	kW	0.55 1.5
Operating current / of the fuse link		
rated value	А	20
Auxiliary circuit:		
Contact reliability / of the auxiliary contacts		acceptability for PLC control (17 V, 5 mA)
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
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Number of change-over switches / for auxiliary contacts		0
		0
Number of change-over switches / for auxiliary contacts		0

• at 24 V	А	4
• at 110 V	А	4
• at 120 V	А	4
• at 125 V	А	4
• at 230 V	А	3
• at DC-13		
• at 24 V	А	2
• at 60 V	А	1
• at 110 V	А	0.3
• at 125 V	А	0.3
• at 220 V	А	1

Short-circuit:

Design of the fuse link / for short-circuit protection of the	fuse gL/gG: 6 A
auxiliary switch / required	

Installation/mounting/dimensions:				
Built in orientation		any		
Type of mounting		direct mounting		
Width	mm	45		
Height	mm	75.9		
Depth	mm	72.5		
Distance, to be maintained, to the ranks assembly				
forwards	mm	0		
backwards	mm	0		
• upwards	mm	0		
downwards	mm	0		
• sidewards	mm	0		
Distance, to be maintained, to earthed part				
• forwards	mm	6		
backwards	mm	0		
• upwards	mm	0		
downwards	mm	0		
• sidewards	mm	6		
Distance, to be maintained, conductive elements				
forwards	mm	6		
backwards	mm	0		
• upwards	mm	0		
downwards	mm	0		
• sidewards	mm	6		

Design of the electrical connection				
for main current circuit	spring-loaded terminals			
 for auxiliary and control current circuit 	spring-loaded terminals			
Product function / removable terminal for auxiliary and control circuit	Yes			
Type of the connectable conductor cross-section				
for main contacts				
• solid	1x (0.5 4 mm²)			
• stranded	1x (0.5 4 mm2)			
finely stranded				
 with conductor end processing 	1x (0.5 2.5 mm²)			
 without conductor final cutting 	1x (0.5 2.5 mm²)			
for AWG conductors / for main contacts	1x (20 12)			
for auxiliary contacts				
• solid	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²)			
finely stranded				
with conductor end processing	1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)			
without conductor final cutting	1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)			
 for AWG conductors / for auxiliary contacts 	1x (24 16), 2x (24 16)			

Verification of suit	ability			UL/CSA		
• ATEX				Yes		
General Product	Approval				For use in hazardous locations	Test Certificates
coc	(SA)	ROSTEST			PTB	Manufacturer
Shipping Approv	al				other	
ABS	GL	Lloyd's Kegister IRS	RMRS		Manufacturer	
UL/CSA ratings:						
Contact rating designation / for auxiliary contacts / according to UL				B300 / R300		
Reliability figures:						
Protection against electrical shock				finger-safe		

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

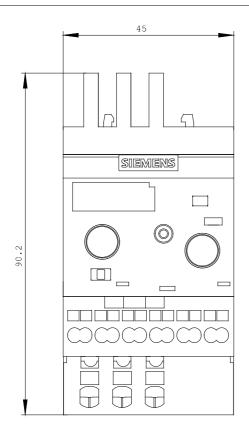
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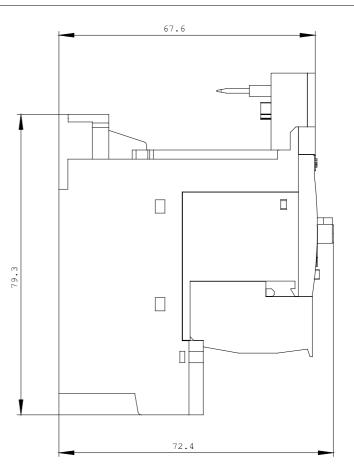
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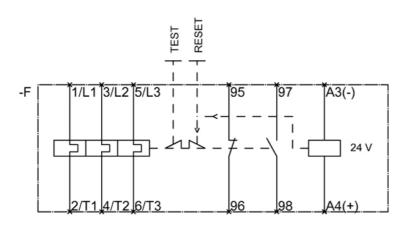
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB3113-4PE0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3113-4PE0







last change:

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