SIEMENS

Product data sheet

3RB3016-1PB0



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

CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SCREW CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-RESET

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		\$00	
Size of the contactor / can be combined / company-specific		\$00	
type of protection		PTB 09 ATEX 3001 Ex II (2) GD	
Type of assignement		2	
Trip class	-	CLASS 10	
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	
Number of change-over switches / for auxiliary contacts		0	
Operating current / of the auxiliary contacts			
• at AC-15			

• 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	64.7
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	0
backwards	mm	0
• upwards	mm	0
downwards	mm	0
• sidewards	mm	6
Distance, to be maintained, conductive elements		
forwards	mm	0
backwards	mm	0
• upwards	mm	0
downwards	mm	0
• sidewards	mm	6

Connections:				
Design of the electrical connection				
for main current circuit		screw-type terminals		
 for auxiliary and control current circuit 		screw-type 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), 2x (0.5 1.5 mm²), mm²)	2x (0.75 4	
• stranded		1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²), 1x (0.75 4 mm²), 2x (0.75 4 mm²)		
finely stranded				
 with conductor end processing 		1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²))	
for AWG conductors / for main contacts		1x (20 12), 2x (20 12)		
for auxiliary contacts				
• solid		1x (0.5 4 mm²), 2x (0.5 1.5 mm²), mm²)	2x (0.75 2.5	
finely stranded				
with conductor end processing		1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²), 1x (0.5 2.5 mm²)		
 for AWG conductors / for auxiliary contacts 		1x (20 14), 2x (20 14)		
Certificates/approvals:				
Verification of suitability		UL / CSA		
• ATEX		Yes		
General Product Approval		For use in Test C hazardous locations	Certificates	
CQC CSA ROSTEST		PTB Manuf	acturer	
Shipping Approval		other		
ABS GL LRS	RMRS	Manufacturer		
UL/CSA ratings:				
Contact rating designation / for auxiliary contacts / according to UL		B600 / R300		
Reliability figures:				
Protection against electrical shock		finger-safe		

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

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

Industry Mall (Online ordering system)

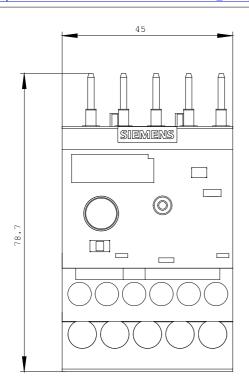
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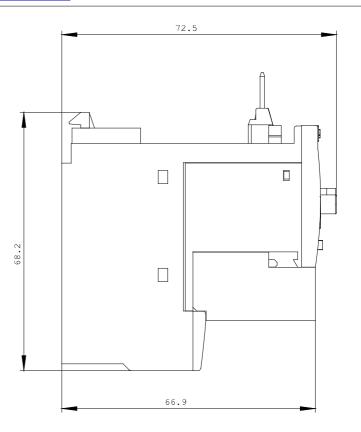
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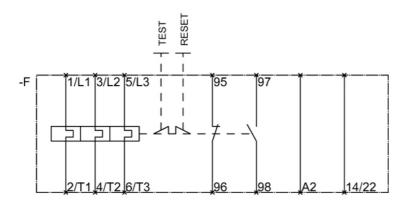
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB3016-1PB0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3016-1PB0







last change:

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