SIEMENS

Product data sheet

3RB3016-2SE0



OVERLOAD RELAY 3...12 A FOR MOTOR PROTECTION SIZE S00,

CLASS 20 CONTACTOR ASS. MAIN CIRCUIT: SPR.-LOAD.TERM. AUX.CIRCUIT: SPR.-LOAD.TERM. 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				

Conductor-bound parasitic coupling conductor-conductor SURGE Conductor-bound parasitic coupling - according to IEC 61000-4.5 1 kV (line to line) corresponds to degree of severity 3 Electrostatic discharge 6 kV contact discharge / 8 kV air discharge - according to IEC 61000-4.2 6 kV contact discharge / 8 kV air discharge Field-bound parasitic coupling 10 V/m - according to IEC 61000-4.3 10 V/m Resistance against shock 156 / 11 ms imputse voitage resistance / rated value kV 6 Active power loss / total / typical W 0.05 • according to DIN 40719 estendable after IEC 204-2 / according to IEC 6100 F • according to DIN 40719 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 estendable after IEC 204-2 / according to IN 40749 Size of the contactor / can be combined / company-specific S00 Type of assignment 2 Type of assignment 2 Type of assignment 2 t	according to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3
Electrostatic discharge Image: Comparisitic coupling • according to IEC 61000-42 6 KV contact discharge / 8 KV air discharge Field-bound parasitic coupling 10 V/m • according to IEC 61000-43 159 / 11 ms Resistance against shock KV 6 Active power loss / total / typical W 0.05 Impulse voltage resistance / trade value KV 6 Active power loss / total / typical W 0.05 Impulse voltage resistance / trade value KV 6 • according to DIN 40719 extendable after IEC 204-2 / according to DIN 40719 extendable after IEC 20	Conductor-bound parasitic coupling conductor-conductor		
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Operating current / of the auxiliary contacts	Number of NO contacts / for auxiliary contacts		1
	Number of change-over switches / for auxiliary contacts		0
• at AC-15	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	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		

Connections:				
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 mm ²), 2x (0.25 1.5 mm ²)		
 without conductor final cutting 		1x (0.25 1.5 mm ²), 2x (0.25 1.5 mm ²)		
 for AWG conductors / for auxiliary contacts 		1x (24 16), 2x (24 16)		
Certificates/approvals:				

Verification of sui	itability			UL / CSA		
• ATEX				Yes		
General Product	t Approval				For use in hazardous locations	Test Certificates
coc	(SA)	ROSTEST			PTB	Manufacturer
Shipping Approv	val				other	
ABS	GL	Lloyds Kegister Irs	RMRS		Manufacturer	
UL/CSA ratings:						
Contact rating designation / for auxiliary contacts / according to UL				B600 / 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)

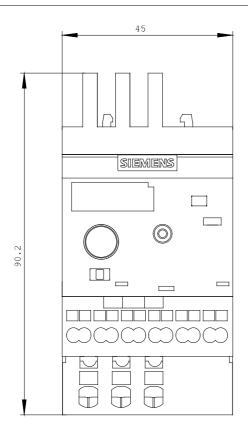
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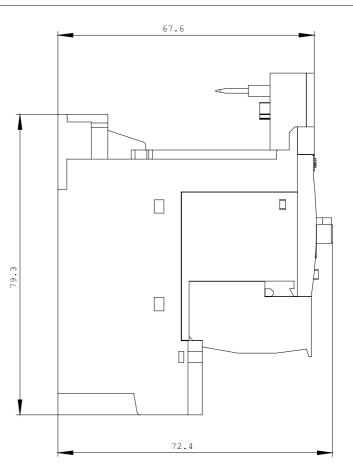
Cax online generator:

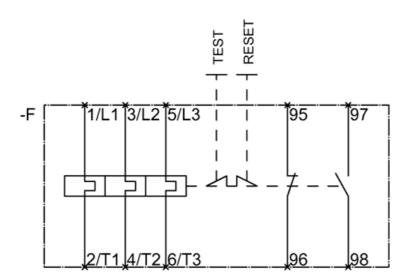
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB3016-2SE0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3016-2SE0







last change:

Oct 24, 2011