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
Size of overload relay		S00
Number of poles / for main current circuit		3
Product function / removable terminal for auxiliary and control circuit		Yes
Product function		
overload protection		Yes
Phase failure detection		Yes
Ground fault detection		No
Product component		
Auxiliary switch		Yes
Trip indicator		Yes
Insulation voltage / with degree of pollution 3 / Rated value	V	690
Surge voltage resistance / Rated value	kV	6
Protection class IP		
of the terminal		IP20
• on the front		IP20
Protection against electrical shock		finger-safe

Installation altitude / at height above sea level / maximum	m	2,000
Vibration resistance		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
Ambient temperature		
during transport	°C	-40 +80
during storage	°C	-40 +80
during operation	°C	-25 +60
Relative humidity		
during operation	/ %	95
EMI immunity / acc. to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference / acc. to IEC 60947-1		CISPR 11, environment B (residential area)
Electrostatic discharge / acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / acc. to IEC 61000-4-3		10 V/m
Conducted interference BURST / acc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conducted interference conductor-earth SURGE		2 kV (line to earth) corresponds to degree of severity 3
Conducted interference conductor-conductor SURGE		1 kV (line to line) corresponds to degree of severity 3
Type of protection		II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Active power loss / total / typical	W	0.1
Size of contactor / can be combined / company-specific		S00

Main circuit:			
Type of voltage / for main current circuit		AC	
Operating current			
• at AC-3 / at 400 V / Rated value	Α	4	
of the auxiliary contacts			
• at AC-15			
• at 24 V	Α	4	
• at 110 V	Α	4	
• at 120 V	Α	4	
• at 125 V	Α	4	
• at 230 V	Α	3	
• at DC-13			
• at 24 V	Α	2	
• at 60 V	Α	0.55	
• at 110 V	Α	0.3	
• at 125 V	Α	0.3	
• at 220 V	Α	0.11	
Type of assignment		2	

Control circuit/ Control:		
Type of voltage supply / via input/output link master		No

Type of voltage / for auxiliary and control current circuit		AC/DC
Auxiliary circuit:		
Design of the auxiliary switch		integrated
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of CO contacts / for auxiliary contacts		0
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gG: 6 A
Protective and monitoring functions:		
Design of the overload circuit breaker		electronic
Trip class		CLASS 10
Adjustable response value current		
• of the current-dependent overload release	Α	1 4
Installation/ mounting/ dimensions:		
Mounting type		direct mounting
mounting position		any
Depth	mm	73
Height	mm	79
Width	mm	45
Arrangement of electrical connectors / for main current circuit		Top and bottom
Connections/ terminals:		
Design of the 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 main contacts		
• single or multi-stranded		1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²)
• finely stranded		
• with core 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		
• single or multi-stranded		1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
• finely stranded		
with core 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)

UL/CSA ratings:

Contact rating / of the auxiliary contacts / acc. to UL

B600 / R300

Certificates/ approvals:

General Product Approval

EMC

For use in hazardous locations













Declaration of Conformity

Test Certificates



Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval









GL





Environmental Confirmations

Further information:

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

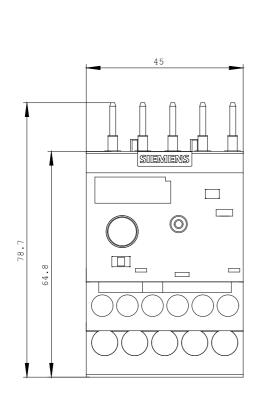
http://www.siemens.com/cax

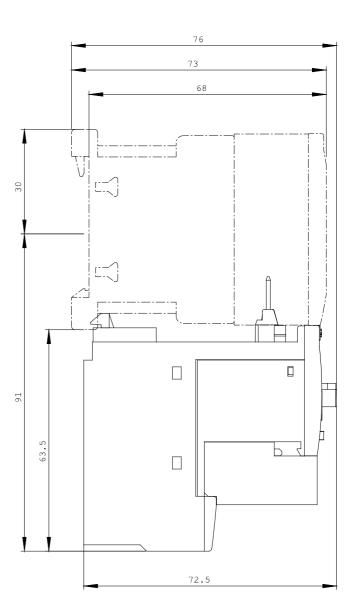
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

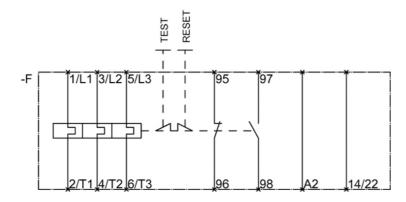
http://support.automation.siemens.com/WW/view/en/3RB3016-1PB0/all

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3016-1PB0}$







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