SIEMENS

Product data sheet 3RB3016-1RB0



OVERLOAD RELAY 0.1...0.4 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 disturbance recognition		Yes	
short-circuit to earth recognition		No	
Product component			
auxiliary switch		Yes	
• trip indicator		Yes	
Insulation voltage / with degree of pollution 3 / rated value	V	690	
Impulse 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 a height over sea level / maximum	m	2,000
Resistance against vibration		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
Ambient temperature	_	
during transport	°C	-40 +80
during storage	°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)
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
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		2 kV (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE		1 kV (line to line) corresponds to degree of severity 3
Type of protection		PTB 09 ATEX 3001 Ex II (2) G [Ex e] [Ex d] [Ex px] D [Ex t] [Ex p]
Active power loss / total / typical	W	0.1
Size of the contactor / can be combined / company-specific		S00

Main circuit:		
Operating current		
• at AC-3 / at 400 V / rated value	Α	0.4
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 assignement		2

Control circuit/ Control:

Type of voltage supply / via input/ output link master		No
Voltage type / for auxiliary and control circuit		AC/DC
Auxiliary circuit:		
Number of NC contacts / for auxiliary contacts		1
Number of NO contacts / for auxiliary contacts		1
Number of changeover contacts / for auxiliary contacts		0
Design of the fuse link / for short-circuit protection of the auxiliary switch / required		fuse gL/gG: 6 A
Protective and monitoring functions:		
Trip class		CLASS 10
Adjustable response current		
of the current-dependent overload release	Α	0.1 0.4
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		
Design of the electrical connection • for main current circuit		screw-type terminals
		screw-type terminals screw-type terminals
for main current circuit		
for main current circuit for auxiliary and control current circuit		
for main current circuit for auxiliary and control current circuit Type of the connectable conductor cross-section		
• for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts		screw-type terminals 1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4
• for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts • solid or multi-stranded		screw-type terminals 1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4
• for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts • solid or multi-stranded • finely stranded		screw-type terminals 1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²)
• for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts • solid or multi-stranded • finely stranded • with conductor end processing		1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)
• for main current circuit • for auxiliary and control current circuit Type of the connectable conductor cross-section • for main contacts • solid or multi-stranded • finely stranded • with conductor end processing • for AWG conductors / for main contacts		1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 4 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)

UL/CSA ratings:

• with conductor end processing

• for AWG conductors / for auxiliary contacts

1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²), 1x (0.5 ... 2.5

mm²)

1x (20 ... 14), 2x (20 ... 14)

Contact rating designation / for auxiliary contacts / according to UL

B600 / R300

Certificates/ approvals:

General Product Approval

EMC

For use in hazardous locations













Test Certificates

Special Test Certificate Type Test
Certificates/Test
Report

Shipping Approval













other

Declaration of
ConformityEnvironmental
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

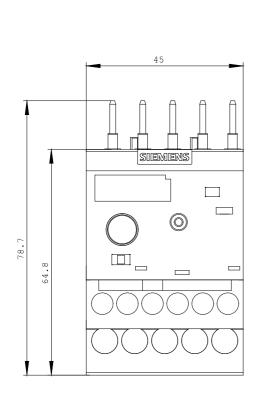
http://www.siemens.com/cax

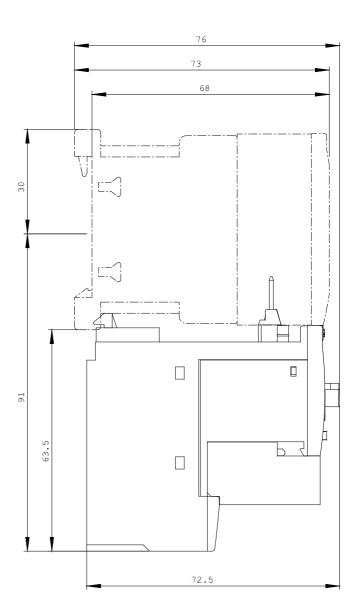
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

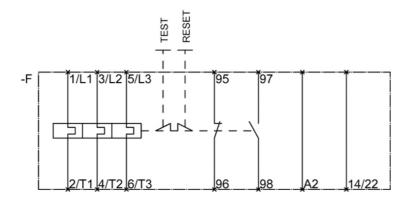
http://support.automation.siemens.com/WW/view/en/3RB3016-1RB0/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3016-1RB0}$







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