SIEMENS

Data sheet

3RB3016-1NB0



OVERLOAD RELAY 0.32...1.25 A FOR MOTOR PROTECTION SIZE S00, CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SCREW CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-RESET

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	SIRIUS
	solid-state overload relay
W	0.1
_	
V	690
	15g / 11 ms
	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
kV	6
-	S00
-	2
-	
	IP20
	IP20
	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
	F
	F
	3
А	0.32 1.25
V	690
	KV KV

Operating frequency Rated value	Hz	50 60
Operating current		
• at AC-3		
— at 400 V Rated value	А	1.25
Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		1
— Note		for contactor disconnection
Number of NO contacts		
 for auxiliary contacts 		1
— Note		for message "tripped"
Number of CO contacts		
 for auxiliary contacts 		0
Design of the auxiliary switch		integrated
Operating current of the auxiliary contacts at AC-15		
• at 24 V	A	4
• at 110 V	A	4
• at 120 V	А	4
• at 125 V	А	4
• at 230 V	А	3
Operating current of the auxiliary contacts at DC-13		
• at 24 V	А	2
• at 60 V	А	0.55
• at 110 V	А	0.3
• at 125 V	А	0.3
• at 220 V	А	0.11
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		electronic
UL/CSA ratings:		
Contact rating of the auxiliary contacts acc. to UL		B600 / R300
Short-circuit:		
Design of the fuse link		
 for short-circuit protection of the main circuit 		
— required		Fuse gG: 6 A
 for short-circuit protection of the auxiliary switch 		fuse gG: 6 A
required		
Installation/ mounting/ dimensions: mounting position		any
Mounting type		any direct mounting
mouning the		an oot mounting

Height	mm	79	
Width	mm	45	
Depth	mm	73	
Required spacing	_		
 with side-by-side mounting 			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	0	
— downwards	mm	0	
— at the side	mm	0	
 for grounded parts 			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	0	
— at the side	mm	6	
— downwards	mm	0	
● for live parts			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	0	
— downwards	mm	0	
— at the side	mm	6	
connections/ Terminals:			
Type of electrical connection			
 for main current circuit 		screw-type terminals	
 for auxiliary and control current circuit 		screw-type terminals	
Arrangement of electrical connectors for main current circuit		Top and bottom	
Product function			
 removable terminal for auxiliary and control circuit 		Yes	
Type of connectable conductor cross-section			
 for main contacts 			

- finely stranded with core end processing

- for AWG conductors for main contacts
- for auxiliary contacts
 - single or multi-stranded
 - finely stranded with core end processing

mm²)

mm²)

2.5 mm²)

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

1x (0,5 ... 4 mm²), 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5

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

1x (20 ... 12), 2x (20 ... 12)

• for AWG conductors for auxiliary contacts

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

Safety related data:				
Protection against electrical shock		finger-safe		
Mechanical data:				
Size of overload relay		S00		
Communication/ Protocol:				
Protocol is supported				
IO-Link protocol		No		
Type of voltage supply via input/output link master		No		
Ambient conditions:				
Installation altitude at height above sea level	m	2 000		
maximum				
Ambient temperature				
 during operation 	°C	-25 +60		
 during storage 	°C	-40 +80		
 during transport 	°C	-40 +80		
Relative humidity during operation	%	95		
Electromagnetic compatibility:				
EMC emitted interference				
• acc. to IEC 60947-1		CISPR 11, environment B (residential area)		
EMI immunity acc. to IEC 60947-1		corresponds to degree of severity 3		
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3		
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3		
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3		
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m		
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge		
Display:				
Display version				
• for switching status		Slide switch		
Certificates/ approvals:				

General Product	t Approval			EMC	For use in hazardous locations
	CSA	EHC		С-ТІСК	K ATEX
Declaration of Conformity	Test Certificates	3	Shipping Appro	oval	
EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>	Special Test Certificate	ABS	BUREAU VERITAS	GL
Shipping Approval		other			
Lloyd's Register LRS	RINA	Environmental Confirmations	Confirmation		

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://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB30161NB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB30161NB0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB30161NB0&lang=en



