SIEMENS

Data sheet 3RB3036-1WW1



OVERLOAD RELAY 20...80 A FOR MOTOR PROTECTION SIZE S2, CLASS 10E STAND-ALONE INSTALLATION MAIN CIRCUIT: STR.-THR. TRANSF. AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

product brand name SIRIUS
Product designation solid-state overload relay

General technical data:					
Active power loss total typical	W	0.2			
Insulation voltage					
 with degree of pollution 3 Rated value 	V	690			
Shock resistance					
• acc. to IEC 60068-2-27		15g / 11 ms			
Vibration resistance		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles			
Surge voltage resistance Rated value	kV	6			
Temperature compensation	°C	6025			
Recovery time					
 after overload trip with automatic reset typical 	min	3			
 after overload trip with remote-reset 	min	0			
 after overload trip with manual reset 	min	0			
Size of contactor can be combined company-specific		S2			
Type of assignment		2			
Protection class IP					
• on the front		IP20			
• of the terminal		IP20			
Type of protection		II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]			
Equipment marking					
• acc. to DIN EN 81346-2		F			

Main circuit:	
Number of poles for main current circuit	3

Adirectable response value assess of the assess		20 00		
Adjustable response value current of the current- dependent overload release	Α	20 80		
Operating voltage				
Rated value	V	690		
at AC-3 Rated value maximum	V	690		
Operating frequency Rated value	Hz	50 60		
Operating current				
• at AC-3				
— at 400 V Rated value	Α	80		
Auxiliary circuit: Number of NC contacts				
		4		
for auxiliary contacts				
— 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	Α	4		
● at 110 V	Α	4		
● at 120 V	Α	4		
● at 125 V	Α	4		
● at 230 V	Α	3		
Operating current of the auxiliary contacts 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		
Dock ation and an attention for all and				
Protective and monitoring functions: Trip class		CLASS 10E		
Design of the overload circuit breaker		electronic		
Response time of the ground fault protection in	ms	1 000		
settled state	1110			
JL/CSA ratings:				
Full-load current (FLA) for three-phase AC motor				
• at 480 V Rated value	Α	80		
• at 600 V Rated value	Α	80		
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: 250 A	
 for short-circuit protection of the auxiliary switch required 		fuse gG: 6 A	

nstallation/ mounting/ dimensions:			
mounting position		any	
Mounting type		stand-alone installation	
Height	mm	81	
Width	mm	55	
Depth	mm	109	
Required spacing			
with side-by-side mounting			
— forwards	mm	0	
— Backwards	mm	0	
— upwards	mm	0	
— downwards	mm	10	
— at the side	mm	0	
• for grounded parts			
— forwards	mm	10	
— Backwards	mm	0	
— upwards	mm	10	
— at the side	mm	10	
— downwards	mm	10	
• for live parts			
— forwards	mm	10	
— Backwards	mm	0	
— upwards	mm	10	
— downwards	mm	10	
— at the side	mm	10	

Connections/ Terminals:			
Type of electrical connection			
• for main current circuit		straight-through transformers	
 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 auxiliary contacts 		
— single or multi-stranded		1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
 finely stranded with core end processing 		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
• for AWG conductors for auxiliary contacts		1x (20 14), 2x (20 14)
Design of screwdriver shaft	Diameter 5 to 6 mm	
Design of the thread of the connection screw		
 of the auxiliary and control contacts 	M3	
Safety related data:		
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	35
Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529
Mechanical data:		
Size of overload relay		S2
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	°C	-25 +60
during operation	°C	-40 +80
during storage	°C	
during transport Poletice hymidite during appretion		-40 +80
Relative humidity during operation	%	0 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)
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV (line to ground)
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV (line to line)
Conducted interference due to high-frequency radiation acc. to IEC 61000-4-6		10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
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 Approval	For use in hazardous locations	Test Certificates	other	
		Tuno Toot	Confirmation	Environmental







Type Test Certificates/Test Report

Confirmation

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://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB30361WW1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB30361WW1/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=3RB30361WW1&lang=en





