SIEMENS

Data sheet 3RB3036-2WX1



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

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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/s ² ; 10 cycles
Surge voltage resistance Rated value	kV	6
Temperature compensation	°C	60 - 25
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

Adjustable response value current of the current	_	20 80
Adjustable response value current of the current- dependent overload release	Α	20 00
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		
• 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	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
Protective and monitoring functions:		
Trip class		CLASS 20E
Design of the overload circuit breaker		electronic
Response time of the ground fault protection in settled state	ms	1 000
UL/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 		spring-loaded terminals	
Arrangement of electrical connectors for main current circuit		Top and bottom	
Product function			
 removable terminal for auxiliary and control 		Yes	
circuit			
Type of connectable conductor cross-section			

for auxiliary contacts		
 single or multi-stranded 		1x (0,25 1,5 mm²), 2x (0,25 1,5 mm²)
 finely stranded with core end processing 		1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)
 finely stranded without core end 		1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)
processing		
 for AWG conductors for auxiliary contacts 		1x (24 16), 2x (24 16)
Design of screwdriver shaft		Diameter 5 to 6 mm
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
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Ambient conditions: Installation altitude at height above sea level	m	2 000
maximum	""	2 000
Ambient temperature		
during operation	°C	-25 +60
during storage	°C	-40 + 80
during transport	°C	-40 + 80
Relative humidity during operation	%	0 95
Electromagnetic competibility	_	
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		2 kV (power ports), 1 kV (signal ports)
61000-4-4		, , , , ,
Conducted interference due to conductor-earth surge		2 kV (line to ground)
acc. to IEC 61000-4-5		
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	







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=3RB30362WX1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB30362WX1/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=3RB30362WX1&lang=en





