## **SIEMENS**

Data sheet 3RB3036-1WX1



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

rigure similar	
product brand name	SIRIUS
Product designation	solid-state overload relay

General technical data:			
Active power loss total typical	W	0.2	
Insulation voltage			
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	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 <sup>2</sup> ; 10 cycles	
Surge voltage resistance Rated value	kV	6	
Temperature compensation	°C	6025	
Recovery time			
<ul> <li>after overload trip with automatic reset typical</li> </ul>	min	3	
<ul> <li>after overload trip with remote-reset</li> </ul>	min	0	
<ul> <li>after overload trip with manual reset</li> </ul>	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			
<ul> <li>for auxiliary contacts</li> </ul>		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
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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			
<ul><li>with side-by-side mounting</li></ul>			
— 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			
<ul> <li>for main current circuit</li> </ul>		straight-through transformers	
<ul> <li>for auxiliary and control current circuit</li> </ul>		spring-loaded terminals	
Arrangement of electrical connectors for main current circuit		Top and bottom	
Product function			
<ul> <li>removable terminal for auxiliary and control</li> </ul>		Yes	
circuit			
Type of connectable conductor cross-section			

<ul><li>for auxiliary contacts</li></ul>		
<ul> <li>single or multi-stranded</li> </ul>		1x (0,25 1,5 mm²), 2x (0,25 1,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)
<ul> <li>finely stranded without core end</li> </ul>		1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)
processing		
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		1x (24 16), 2x (24 16)
Design of screwdriver shaft		Diameter 5 to 6 mm
Safety related data:		
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	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:		
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 <b>+</b> 80
during transport	°C	-40 <b>+</b> 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		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
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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=3RB30361WX1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB30361WX1/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=3RB30361WX1&lang=en





