SIEMENS

Data sheet 3RB3036-2WB0



OVERLOAD RELAY 20...80 A FOR MOTOR
PROTECTION SIZE S2, CLASS 20E FOR MOUNTING
ONTO CONTACTORS MAIN CIRCUIT: SCREW
TERMINAL AUX. CIRCUIT: SCREW TERMINAL
MANUAL-AUTOMATIC-RESET

Figure similar

product brand name	SIRIUS
Product designation	solid-state overload relay

General technical data:				
Active power loss total typical	W	4.6		
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	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 		IP00		
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-	Α	20 80			
dependent overload release					
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	ms	1 000			
settled state					
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	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		direct mounting		
Height	mm	99		
Width	mm	55		
Depth	mm	104		
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 		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 		Yes		
circuit				
Type of connectable conductor cross-section				

• for main contacts		
 — single or multi-stranded 		1x (1 50 mm²), 2x (1 35 mm²)
 finely stranded with core end processing 		1x (1 35 mm²), 2x (1 25 mm²)
• for AWG conductors for main contacts		2x (18 2), 1x (18 1)
• 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)
Tightening torque	_	
 for main contacts with screw-type terminals 	N·m	3 4.5
Design of screwdriver shaft	-	Diameter 5 to 6 mm
Design of the thread of the connection screw	-	
• for main contacts		M6
 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	_	
 during operation 	°C	-25 +60
during storage	°C	-40 +80
during transport	°C	-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		2 kV (power ports), 1 kV (signal ports)
61000-4-4		
Conducted interference due to conductor-earth surge		2 kV (line to ground)
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	
SP	FAL	$\langle \varepsilon_x \rangle$	Type Test Certificates/Test Report	Confirmation	Environmental Confirmations



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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=3RB30362WB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB30362WB0/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=3RB30362WB0&lang=en



