SIEMENS

Product 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

General technical data:				
product brand name		SIRIUS		
Product designation		solid-state overload relay		
Size of overload relay		S2		
Number of poles / for main current circuit		3		
Product function / removable terminal for auxiliary and control circuit		Yes		
Product function				
overload protection		Yes		
Phase failure detection		Yes		
Ground fault detection		No		
Product component				
Auxiliary switch		Yes		
Trip indicator		Yes		
Insulation voltage / with degree of pollution 3 / Rated value	V	690		
Surge voltage resistance / Rated value	kV	6		
Protection class IP				
of the terminal		IP20		
• on the front		IP20		
Installation altitude / at height above sea level / maximum	m	2,000		

Vibration resistance		1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
Ambient temperature		
during transport	°C	-40 +80
during storage	°C	-40 +80
during operation	°C	-25 +60
Relative humidity		
during operation	%	0 95
EMI immunity / acc. to IEC 60947-1		corresponds to degree of severity 3
EMC emitted interference / acc. to IEC 60947-1		CISPR 11, environment B (residential area)
Electrostatic discharge / acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / acc. to IEC 61000-4-3		10 V/m
Conducted interference BURST / acc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports)
Conducted interference conductor-earth SURGE		2 kV (line to ground)
Conducted interference conductor-conductor SURGE		1 kV (line to line)
Conducted interference as 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
Type of protection		II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Active power loss / total / typical	W	0.2
Size of contactor / can be combined / company-specific		S2

Main circuit:

Operating voltage / Rated value	V	690
Type of voltage / for main current circuit		AC
Operating current		
• at AC-3 / at 400 V / Rated value	А	80
of the auxiliary contacts		
• at AC-15		
• at 24 V	А	4
• at 110 V	А	4
• at 120 V	А	4
• at 125 V	А	4
• at 230 V	А	3
• 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
Type of assignment		2

Control circuit/ Control:

Type of voltage supply / via input/output link master No Type of voltage / for auxiliary and control current circuit AC/DC Auxiliary circuit: integrated Design of the auxiliary switch integrated Number of NC contacts / for auxiliary contacts 1 Number of NO contacts / for auxiliary contacts 1 Number of CO contacts / for auxiliary contacts 0 Design of the fuse link / for short-circuit protection of the auxiliary switch / required fuse gG: 6 A Protective and monitoring functions: electronic Design of the overload circuit breaker electronic Trip class CLASS 10E	
Auxiliary circuit: integrated Design of the auxiliary switch integrated Number of NC contacts / for auxiliary contacts 1 Number of NO contacts / for auxiliary contacts 1 Number of CO contacts / for auxiliary contacts 0 Design of the fuse link / for short-circuit protection of the auxiliary switch / required fuse gG: 6 A Protective and monitoring functions: electronic Design of the overload circuit breaker electronic Trip class CLASS 10E	
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auxiliary switch / required Image: Constraint of the system of the overload circuit breaker Design of the overload circuit breaker electronic Trip class CLASS 10E	
Design of the overload circuit breaker electronic Trip class CLASS 10E	
Trip class CLASS 10E	
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Adjustable response value current	
• of the current-dependent overload release A 20 80	
Safety related data:	
Proportion of dangerous failures	
• with low demand rate / acc. to SN 31920 % 35	
Installation/ mounting/ dimensions:	
Mounting type stand-alone installation	
mounting position any	
Depth mm 109	
Height mm 81	
Width mm 55	
Arrangement of electrical connectors / for main current circuit Top and bottom	
Connections/ terminals:	
Design of the electrical connection	
for main current circuit straight-through transformers	
for auxiliary and control current circuit screw-type terminals	
Type of connectable conductor cross-section	
for auxiliary contacts	
• single or multi-stranded 1x (0,5 4 mm ²), 2x (0,5 2,5 mm ²)	
finely stranded	
• with core end processing 1x (0.5 2.5 mm ²), 2x (0.5 1.5 mm ²)	
• for AWG conductors / for auxiliary contacts 1x (20 14), 2x (20 14)	
Full-load current (FLA) / for three-phase AC motor	
• at 480 V / Rated value A 80	
• at 600 V / Rated value A 80	

UL/CSA ratings:					
Contact rating / of the auxiliary contacts / acc. to UL			B600 / R300		
Certificates/ approvals:					
General Product Approval		Test Certificates			
(SA)	EHE	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>			

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

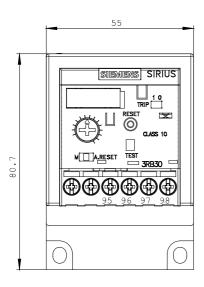
Industry Mall (Online ordering system) http://www.siemens.com/industrymall

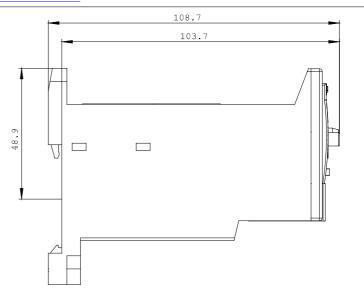
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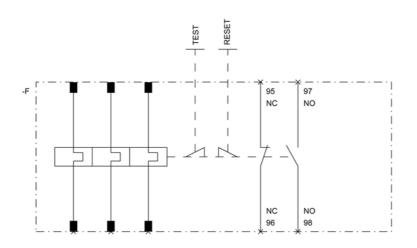
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RB3036-1WW1/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3036-1WW1







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