SIEMENS

Product data sheet 3RB3036-2WW1



OVERLOAD RELAY 20...80 A FOR MOTOR PROTECTION SIZE S2,

CLASS 20E 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	Α	80	
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	
• 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	
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:		
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:		
Design of the overload circuit breaker		electronic
Trip class		CLASS 20E
Adjustable response value current		
of the current-dependent overload release	Α	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 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)
		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 14), 2x (20 14)
with core end processing		
with core end processing for AWG conductors / for auxiliary contacts	A	

UL/CSA ratings:

Contact rating / of the auxiliary contacts / acc. to UL

B600 / R300

Certificates/ approvals:

General Product Approval



Test Certificates

Type Test
Certificates/Test
Report

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

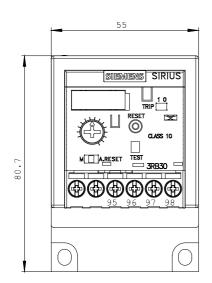
http://www.siemens.com/cax

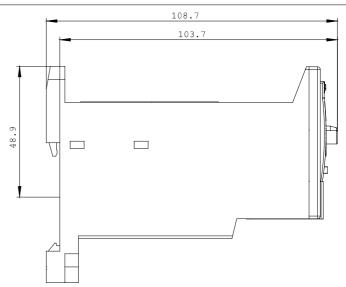
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

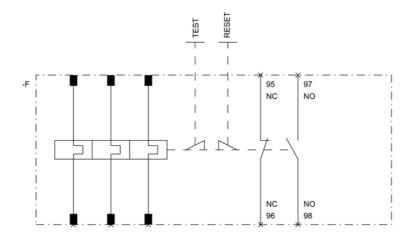
http://support.automation.siemens.com/WW/view/en/3RB3036-2WW1/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3036-2WW1}$







last change: Dec 3, 2014