SIEMENS

Product data sheet

3RB3036-1WD0



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

CLASS 10E FOR MOUNTING ONTO CONTACTORS MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SPRING-T. TERM. 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		IP00
• 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	4.6
Size of contactor / can be combined / company-specific		S2

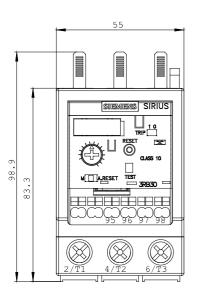
Main circuit:

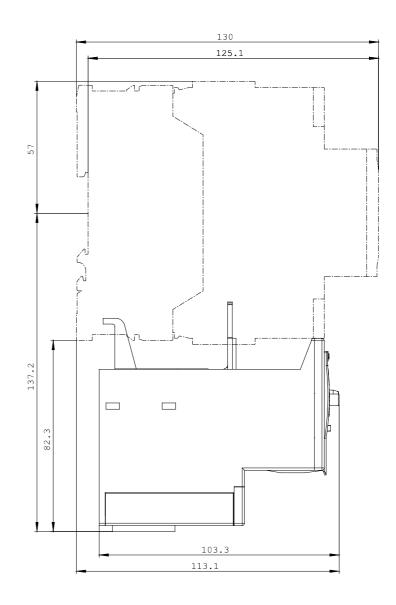
Operating voltage / Rated value	V	690
Type of voltage / for main current circuit		AC
Operating current		
• at AC-3 / at 400 V / Rated value	А	80
of the auxiliary contacts		
• at AC-15		
• at 24 V	А	4
• at 110 V	А	4
• at 120 V	А	4
• at 125 V	А	4
• at 230 V	А	3
• at DC-13		
• at 24 V	А	2
• at 60 V	А	0.55
• at 110 V	А	0.3
• at 125 V	А	0.3
• at 220 V	А	0.11
Type of assignment		2

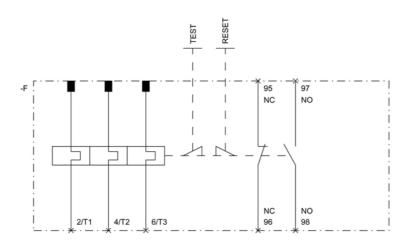
Control circuit/ Control:

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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 10E
Adjustable response value current		
 of the current-dependent overload release 	А	20 80
Safety related data:		
Proportion of dangerous failures		
• with low demand rate / acc. to SN 31920	%	35
Installation/ mounting/ dimensions:		
Mounting type		direct mounting
mounting position	-	any
Depth	mm	104
Height	mm	99
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		screw-type terminals
 for auxiliary and control current circuit 		spring-loaded terminals
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 (0,25 1,5 mm²), 2x (0,25 1,5 mm²)
finely stranded		
•		

 without core end processing 			1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)
 with core end processing 			1x (0.25 1.5 mm²), 2x (0.25 1.5 mm²)
 for AWG conductors / for auxiliary contacts 			1x (24 16), 2x (24 16)
Full-load current (FLA) / for three-phase AC motor			
• at 480 V / Rated value		А	80
• at 600 V / Rated value		А	80
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/3RB3036-1WD0/all			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3036-1WD0			







last change:

Dec 3, 2014