SIEMENS

Product data sheet 3RB3133-4UX1



OVERLOAD RELAY 12.5...50 A FOR MOTOR PROTECTION SIZE S2, CLASS 5E...30E STAND-ALONE INSTALLATION MAIN CIRCUIT: STR.-THR. TRANSF. AUX. CIRCUIT: SPRING-TYPE TERM. MANUAL-AUTOMATIC-RESET INT. GROUND FAULT DETECTION

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		Yes		
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	0.1
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	50
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 5E, 10E, 20E and 30E adjustable
Adjustable response value current		
of the current-dependent overload release	Α	12.5 50
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		spring-loaded terminals
Type of connectable conductor cross-section		
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	Α	50

Α

50

UL/CSA ratings:

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

B300 / R300

Certificates/ approvals:

General Product Approval







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

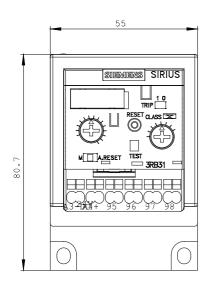
http://www.siemens.com/cax

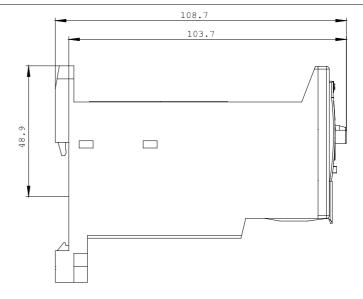
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

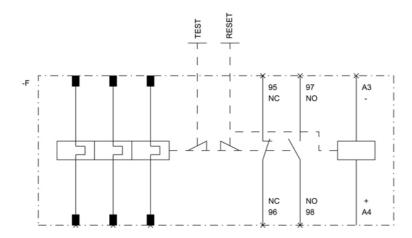
http://support.automation.siemens.com/WW/view/en/3RB3133-4UX1/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3133-4UX1







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