SIEMENS

Product data sheet

3RB3133-4UW1



OVERLOAD RELAY 12.5...50 A FOR MOTOR PROTECTION SIZE S2, CLASS 5E...30E STAND-ALONE INSTALLATION MAIN CIRCUIT: STR.-THR. TRANSF. AUX. CIRCUIT: SCREW TERMINAL 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	А	50
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 / van input/output nink master No Type of voltage / for auxiliary and control current circuit AC/DC Auxiliary circuit: Integrated Design of the auxiliary contacts 1 Number of NC contacts / for auxiliary contacts 0 Design of the auxiliary contacts 0 Design of the the bink / for short-circuit protection of the auxiliary switch / required vise gG: 6 Å Protective and monitoring functions: Even of the overload circuit breaker Design of the two eventoad circuit breaker 4 Type or voltage subjer / visit auxiliary contacts A Adjustable response value current 4 • of the current-dependent overload release A Stafety related data: Event-dependent overload release Proportion of dangerous failures a • with low demand rate / acc. to SN 31920 % Stafety related data: mm Proportion of dangerous failures mm • with low demand rate / acc. to SN 31920 % Stafet related connectors / for main current circuit mm Depth mm 10 Modufi	Tuno of voltage cumply / via input/output link monton		No
Auxiliary circuit: Design of the auxiliary switch integrated Number of NC contacts / for auxiliary contacts 1 Number of NC contacts / for auxiliary contacts 0 Design of the auxiliary switch / required 0 Design of the fuse link / for short-circuit protection of the auxiliary switch / required 0 Protective and monitoring functions: 1 Design of the overload circuit breaker electronic Trip class CLASS SE, 10E, 20E and 30E adjustable Adjustable response value current - • of the current-dependent overload release A • of the current-dependent overload release A • with low demand rate / acc. to SN 31920 % Statalation/ mounting/ dimensions: any Design of the electrical connectors / for main current circuit any Design of the electrical connectors / for main current circuit To pand bottom * or auxiliary switch for auxiliary switch stard-alone installation mounting position any any Design of the electrical connectors / for main current circuit To pand bottom * or auxiliary switch / required for auxiliary electricit connectore Ornection	Type of voltage supply / via input/output link master		No
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Safety related data: Proportion of dangerous failures south low demand rate / acc. to SN 31920 % 35 Installation/ mounting/ dimensions: Stand-alone installation Mounting type stand-alone installation mounting position any Depth mm 109 Height mm 55 Arrangement of electrical connectors / for main current circuit Top and bottom Ornections/ terminals: straight-through transformers Posing of the electrical connection straight-through transformers • for auxiliary and control current circuit straight-through transformers • for auxiliary contacts infely stranded infely stranded • with core end processing ix (0,5 2.5 mm ³), 2x (0,5 2,5 mm ³) • for AWS conductors / for trauxiliary contacts ix (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) • for AWS conductors / for trauxiliary contacts ix (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) • for AWS conductors / for trauxiliary contacts ix (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) • for AWS conductors / for trauxiliary contacts ix (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) • for AWS conductors / for trauxiliary contacts ix (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) • for AWS conductors / for trauxiliary contacts ix (0.5 2.5 mm ³), 2x (0.5 1.5 mm ³) <th>Adjustable response value current</th> <th></th> <th></th>	Adjustable response value current		
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Arrangement of electrical connectors / for main current circuitTop and bottomConnections/ terminals:Top and bottomDesign of the electrical connection • for main current circuitstraight-through transformers screw-type terminalsType of connectable conductor cross-section • for auxiliary contacts • single or multi-stranded • finely stranded • with core end processing • for AWG conductors / for auxiliary contacts1x (0,5 4 mm²), 2x (0,5 2,5 mm²)Full-load current (FLA) / for three-phase AC motor • at 480 V / Rated valueA50	Height	mm	81
Connections/ terminals:Design of the electrical connectionImage: straight through transformers• for main current circuitstraight-through transformers• for auxiliary and control current circuitscrew-type terminalsType of connectable conductor cross-sectionImage: single or multi-stranded• for auxiliary contacts1x (0,5 4 mm²), 2x (0,5 2,5 mm²)• finely stranded1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts1x (0.5 2,5 mm²), 2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contactsA	Width	mm	55
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• for auxiliary and control current circuitImage: control current circuit• for auxiliary contactsscrew-type terminals• for auxiliary contactsImage: control current circuit• for auxiliary contactsImage: control current circuit• single or multi-strandedImage: control current circuit• finely strandedImage: control current circuit• with core end processingImage: control current circuit• for AWG conductors / for auxiliary contactsImage: control current circuitFull-load current (FLA) / for three-phase AC motorA• at 480 V / Rated valueA	Design of the electrical connection		
Type of connectable conductor cross-sectionImage: content of auxiliary contacts• for auxiliary contactsImage: content of auxiliary contacts• single or multi-strandedImage: content of auxiliary contacts• finely strandedImage: content of auxiliary contacts• with core end processingImage: content of auxiliary contacts• for AWG conductors / for auxiliary contactsImage: content of auxiliary contactsFull-load current (FLA) / for three-phase AC motorImage: content of auxiliary contacts• at 480 V / Rated valueA50	• for main current circuit		straight-through transformers
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• with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG conductors / for auxiliary contacts1x (20 14), 2x (20 14)Full-load current (FLA) / for three-phase AC motorA• at 480 V / Rated valueA	single or multi-stranded		1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
• for AWG conductors / for auxiliary contacts 1x (20 14), 2x (20 14) Full-load current (FLA) / for three-phase AC motor A • at 480 V / Rated value A	finely stranded		
Full-load current (FLA) / for three-phase AC motor A • at 480 V / Rated value A	with core end processing		1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
• at 480 V / Rated value A 50	for AWG conductors / for auxiliary contacts		1x (20 14), 2x (20 14)
	Full-load current (FLA) / for three-phase AC motor		
• at 600 V / Rated value A 50	• at 480 V / Rated value	А	50
	• at 600 V / Rated value	А	50

UL/CSA ratings:				
Contact rating / of the auxiliary contacts / acc. to UL			B300 / R300	
Certificates/ ap	Certificates/ approvals:			
General Product Approval Test Certificates		Test Certificates		
(SA)	EHC	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>		

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

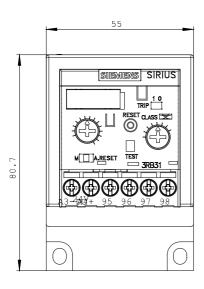
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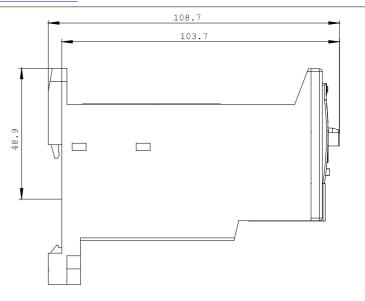
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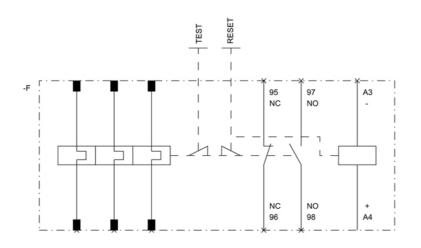
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3133-4UW1







last change:

Dec 3, 2014