SIEMENS

Data sheet 3RB2123-4SB0

OVERLOAD RELAY 3...12 A FOR MOTOR PROTECTION SIZE S0, CLASS 5...30 FOR MOUNTING ONTO CONT. MAIN CIRCUIT: SCREW CONNECTION AUX. CIRCUIT: SCREW CONNECTION MANUAL-AUTOMATIC-RESET INT. EARTH FAULT DETECTION



Figure similar

Product brand name	SIRIUS
Product designation	solid-state overload relay

General technical data

Size of contactor can be combined company-specific	S0
Power loss [W] total typical	0.05 W
Insulation voltage	
• with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
Protection class IP	
• on the front	IP20
Type of protection	PTB 06 ATEX 3001 Ex II (2) GD
Equipment marking acc. to DIN EN 81346-2	F

Ambient conditions

Ambient temperature	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C

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Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	3 ... 12 A
Operating voltage	
• at AC-3 rated value maximum	690 V

Auxiliary circuit	
Number of NC contacts	
• for auxiliary contacts	1
Number of NO contacts	
• for auxiliary contacts	1
Number of CO contacts	
• for auxiliary contacts	0
Operating current of auxiliary contacts at AC-15	
• at 24 V	4 A
• at 110 V	4 A
• at 120 V	4 A
• at 125 V	4 A
• at 230 V	3 A
Operating current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.55 A
• at 110 V	0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A

Protective and monitoring functions	
Trip class	CLASS 5E, 10E, 20E and 30E adjustable

Short-circuit protection	
Design of the fuse link	
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A

Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	73 mm
Width	45 mm
Depth	75 mm
Required spacing	
• with side-by-side mounting	
— forwards	0 mm

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— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm

Connections/Terminals

Product function	
• removable terminal for auxiliary and control circuit	Yes
Type of electrical connection	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)
— finely stranded with core end processing	2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²)
• at AWG conductors for main contacts	2x (14 ... 10)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²)
— finely stranded with core end processing	0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²)
• at AWG conductors for auxiliary contacts	2x (20 ... 14)

Electromagnetic compatibility

Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge

Certificates/approvals

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General Product Approval				EMC	For use in hazardous locations
CCC	CSA	UL	EAC	C-Tick	ATEX

Declaration of Conformity	Test Certificates		Marine / Shipping		
EG-Konf.	Type Test Certificates/Test Report	Special Test Certificate	ABS	LRS	RINA

Marine / Shipping	other		
	Environmental Confirmations	Miscellaneous	Confirmation

Further information

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

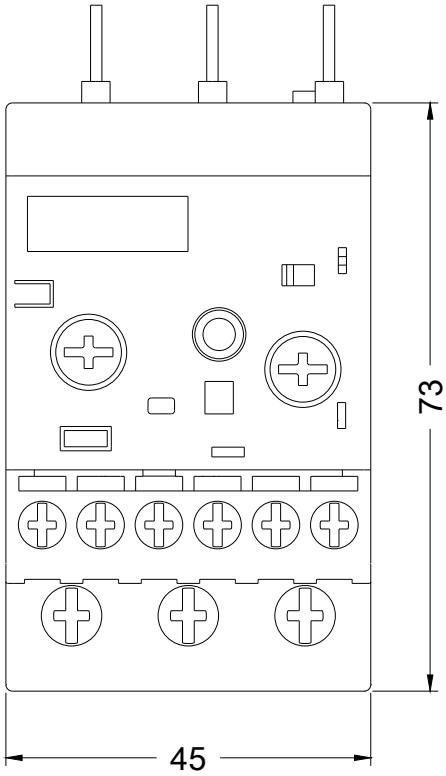
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB2123-4SB0

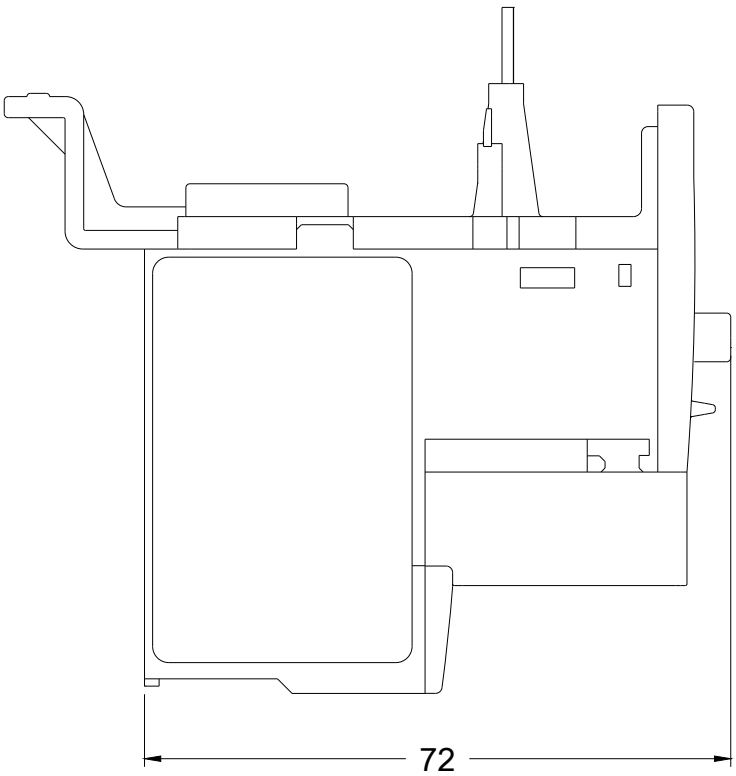
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2123-4SB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RB2123-4SB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2123-4SB0&lang=en

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last modified: 07/14/2017

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