

OVERLOAD RELAY 0.32...1.25 A FOR MOTOR PROTECTION SZ S0, CLASS 5...30 F. MOUNTING ONTO CONTACTORS MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SPRING-LOADED TERM. MANUAL-AUTOMATIC-RESET INT. GROUND 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	690 V
• with degree of pollution 3 rated value	
Surge voltage resistance rated value	6 kV
Protection class IP	IP20
• on the front	
Shock resistance	15g / 11 ms
Type of protection	PTB 06 ATEX 3001 Ex II (2) GD
Equipment marking acc. to DIN EN 81346-2	F
Ambient conditions	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	

• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
Relative humidity during operation	100 %

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	0.32 ... 1.25 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
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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 — 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 • for auxiliary and control current circuit	screw-type terminals spring-loaded 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 2x (0.25 ... 1.5 mm²) — finely stranded with core end processing 2x (0.25 ... 1.5 mm²) • at AWG conductors for auxiliary contacts 2x (24 ... 16)	

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

General Product Approval	EMC	For use in hazardous locations
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Declaration of Conformity	Test Certificates	Shipping Approval
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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=3RB2123-4ND0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2123-4ND0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2123-4ND0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2123-4ND0&lang=en

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