

OVERLOAD RELAY 1...4A F. MOTOR PROTECTION SZ S0,
CLASS 5...30 F. MOUNT. ONTO CONTACTORS MAIN CIRCUIT:
SCREW CONN. AUX. CIRCUIT: SCREW CONN. 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	
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	
• during storage	
• during transport	

Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	1 ... 4 A
Operating voltage	690 V
• at AC-3 rated value maximum	
Auxiliary circuit	
Number of NC contacts	1
• for auxiliary contacts	
Number of NO contacts	1
• for auxiliary contacts	
Number of CO contacts	0
• for auxiliary contacts	
Operating current of auxiliary contacts at AC-15	4 A 4 A 4 A 4 A 3 A
• at 24 V	
• at 110 V	
• at 120 V	
• at 125 V	
• at 230 V	
Operating current of auxiliary contacts at DC-13	2 A 0.55 A 0.3 A 0.3 A 0.11 A
• at 24 V	
• at 60 V	
• at 110 V	
• at 125 V	
• at 220 V	
Protective and monitoring functions	
Trip class	CLASS 5E, 10E, 20E and 30E adjustable
Short-circuit protection	
Design of the fuse link	fuse gL/gG: 6 A
• for short-circuit protection of the auxiliary switch required	
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	73 mm
Width	45 mm
Depth	75 mm
Required spacing	0 mm
• with side-by-side mounting — forwards	

— 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 mm ²), 2x (2.5 ... 6 mm ²)
— finely stranded with core end processing	2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²)
• at AWG conductors for main contacts	2x (14 ... 10)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— solid	0.5 ... 4 mm ² , 2x (0.5 ... 2.5 mm ²)
— finely stranded with core end processing	0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²)
• 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

General Product Approval	EMC	For use in hazardous locations
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CCC



CSA



UL



C-Tick



ATEX

Declaration of Conformity	Test Certificates	Marine / Shipping
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EG-Konf.

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ABS



LRS



RINA

Marine / Shipping	other
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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=3RB2123-4PB0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2123-4PB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2123-4PB0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2123-4PB0&lang=en

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