



OVERLOAD RELAY 50...200 A FOR MOTOR PROTECTION SIZE S6, CLASS 20 MOUNT. ONTO CONT./ STAND-ALONE MAIN CIRCUIT: THROUGH TRANSF. AUX. CIRCUIT: SCREW CONNECTION MANUAL-AUTOMATIC-RESET

product brand name	SIRIUS
Product designation	solid-state overload relay

General technical data:

Size of contactor can be combined company-specific	S6
Active power loss total typical	0.05 W
Insulation voltage	1 000 V
<ul style="list-style-type: none"> with degree of pollution 3 Rated value 	
Surge voltage resistance Rated value	8 kV
Protection class IP	IP20
<ul style="list-style-type: none"> on the front 	
Type of assignment	2
Type of protection	PTB 06 ATEX 3001 Ex II (2) GD
Equipment marking	
<ul style="list-style-type: none"> acc. to DIN EN 61346-2 	F
<ul style="list-style-type: none"> acc. to DIN EN 81346-2 	F

Ambient conditions:

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	
<ul style="list-style-type: none"> during operation 	-25 ... +60 °C
<ul style="list-style-type: none"> during storage 	-40 ... +80 °C
<ul style="list-style-type: none"> during transport 	-40 ... +80 °C
Relative humidity during operation	100 %

Main circuit:

Number of poles for main current circuit	3
Adjustable response value current of the current-dependent overload release	50 ... 200 A
Operating voltage	1 000 V
<ul style="list-style-type: none"> at AC-3 Rated value maximum 	

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 the auxiliary contacts at AC-15 • at 24 V • at 110 V • at 120 V • at 125 V • at 230 V	4 A 4 A 4 A 4 A 3 A
Operating current of the auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • at 125 V • at 220 V	2 A 0.55 A 0.3 A 0.3 A 0.11 A

Protective and monitoring functions:

Trip class	CLASS 20
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Short-circuit:

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

mounting position	any
Mounting type	direct mounting / stand-alone installation
Height	119 mm
Width	120 mm
Depth	155 mm
Required spacing • with side-by-side mounting — forwards — Backwards — upwards — downwards — at the side • for grounded parts — forwards — Backwards — upwards	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 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	straight-through transformers
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-section	
• 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)
• for AWG conductors for auxiliary contacts	2x (20 ... 14)

Mechanical data:

Size of overload relay	S6
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Electromagnetic compatibility:

Conducted interference due to burst acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV (line to line) corresponds to degree of severity 3
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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[Typprüfbescheinigung/Werkszeugnis](#)

[spezielle Prüfbescheinigungen](#)



Shipping Approval	other
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[Umweltbestätigung](#)

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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://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB20562FW2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB20562FW2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB20562FW2&lang=en

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