

OVERLOAD RELAY 160...630 A FOR MOTOR PROTECTION SIZE S10/S12, CLASS 20 MOUNT. ONTO CONT./ STAND-ALONE MAIN CIRCUIT: BAR CONNECTION 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	S10, S12
Active power loss total typical	0.05 W
Insulation voltage	1 000 V
• with degree of pollution 3 Rated value	
Surge voltage resistance Rated value	8 kV
Protection class IP	IP20
• on the front	
Type of assignment	2
Type of protection	PTB 06 ATEX 3001 Ex II (2) GD
Equipment marking	
• acc. to DIN EN 61346-2	F
• 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 response value current of the current-dependent overload release	160 ... 630 A
Operating voltage	1 000 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 the 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 the 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 20
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Short-circuit:

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 / stand-alone installation
Height	147 mm
Width	145 mm
Depth	156 mm
Required spacing	0 mm 0 mm 0 mm
• with side-by-side mounting	
— forwards	
— Backwards	
— upwards	

— 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	busbar connection
• 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	S10, S12
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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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[Werksbescheinigungen](#)

[Typprüfbescheinigung/Werkszeugnis](#)



Shipping Approval	other
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[Umweltbestätigung](#)

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

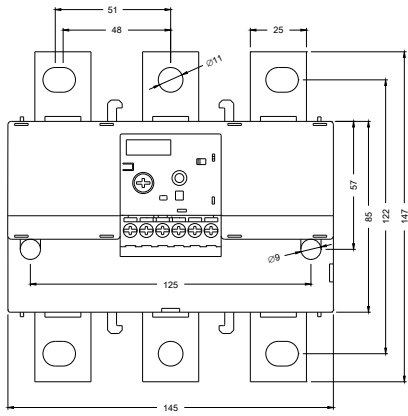
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB20662MC2>

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

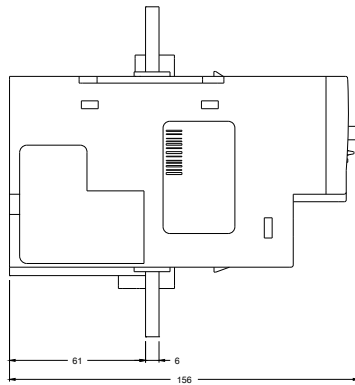
<https://support.industry.siemens.com/cs/ww/en/ps/3RB20662MC2>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB20662MC2&lang=en



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