

OVERLOAD RELAY 25...100 A FOR MOTOR PROTECTION SIZE S3, CLASS 10 FOR MOUNTING ONTO CONT. MAIN CIRCUIT: SCREW CONNECTION AUX. CIRCUIT: SCREW CONNECTION MANUAL-AUTOMATIC-RESET



product brandname	SIRIUS
Product designation	solid-state overload relay

General technical data

Size of contactor can be combined company-specific	S3
Power loss [W] total typical	0.05 W
Insulation voltage <ul style="list-style-type: none"> • with degree of pollution 3 rated value 	1 000 V
Surge voltage resistance rated value	8 kV
Protection class IP <ul style="list-style-type: none"> • on the front 	IP00
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 <ul style="list-style-type: none"> • during operation • during storage 	-25 ... +60 °C -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 pick-up value current of the current-dependent overload release	25 ... 100 A
Operating voltage	
<ul style="list-style-type: none"> at AC-3 rated value maximum 	1 000 V
Auxiliary circuit	
Number of NC contacts	
<ul style="list-style-type: none"> for auxiliary contacts 	1
Number of NO contacts	
<ul style="list-style-type: none"> for auxiliary contacts 	1
Number of CO contacts	
<ul style="list-style-type: none"> for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> 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 auxiliary contacts at DC-13	
<ul style="list-style-type: none"> 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 10E
Short-circuit protection	
Design of the fuse link	
<ul style="list-style-type: none"> 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	106 mm
Width	70 mm
Depth	124 mm
Required spacing	
<ul style="list-style-type: none"> 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	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (2.5 ... 16 mm ²)
— stranded	2x (10 ... 50 mm ²), 10 ... 70 mm ²
— finely stranded with core end processing	2x (2.5 ... 35 mm ²), 2.5 ... 50 mm ²
• at AWG conductors for main contacts	2x (10 ... 1/0), 1x (10 ... 2/0)
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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Declaration of Conformity	Test Certificates	Shipping Approval
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[Typprüfbescheinigung/Werkszeugnis](#)



Shipping Approval	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=3RB2046-1EB0>

Cax online generator

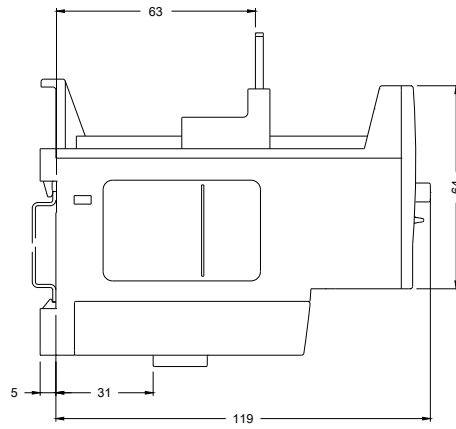
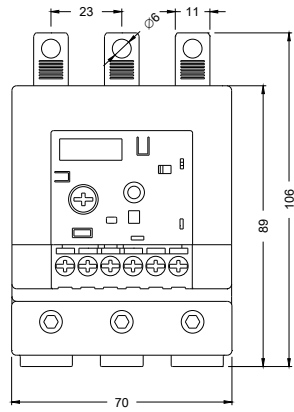
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2046-1EB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2046-1EB0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2046-1EB0&lang=en



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