

OVERLOAD RELAY 25...100 A FOR MOTOR PROTECTION SIZE S3, CLASS 5...30 STAND-ALONE INSTALLATION MAIN CIRCUIT: THROUGH TRANSF. AUX. CIRCUIT: SCREW CONNECTION MANUAL-AUTOMATIC-RESET INT. EARTH 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	S3
Power loss [W] 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	
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 	-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 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 5, 10, 20 and 30 adjustable
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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	stand-alone installation
Height	106 mm
Width	70 mm

Depth	124 mm
Required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards 0 m — Backwards 0 m — upwards 0 m — downwards 0 m — at the side 0 m • for grounded parts <ul style="list-style-type: none"> — forwards 0 m — Backwards 0 m — upwards 0 m — at the side 6 mm — downwards 0 m • for live parts <ul style="list-style-type: none"> — forwards 0 m — Backwards 0 m — upwards 0 m — downwards 0 m — at the side 6 mm 	

Connections/ Terminals:

Product function	
<ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit 	Yes
Type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 	straight-through transformers screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid 0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²) — finely stranded with core end processing 0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²) • 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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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=3RB2143-4EW1>

Cax online generator

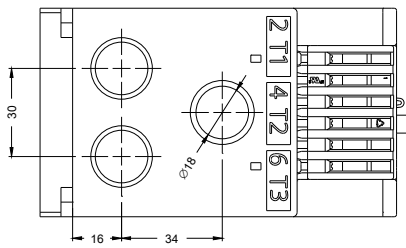
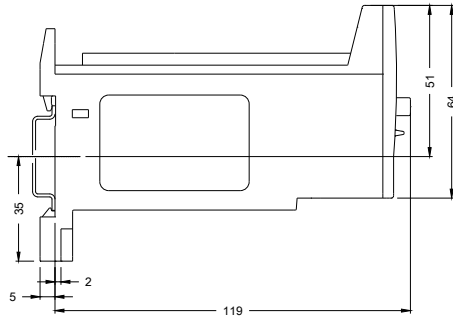
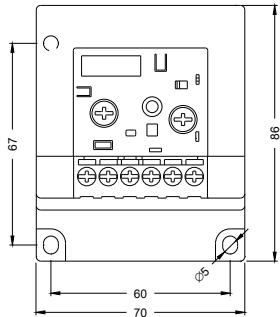
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2143-4EW1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2143-4EW1>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2143-4EW1&lang=en



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