

Evaluation unit for full motor protection (monostable) Size S00...S12, class 5...30 Stand-alone installation Main circuit: -- Auxiliary circuit: Screw terminal Manual-Automatic-Reset



product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB22

General technical data

size of overload relay	S00 ... S12
size of contactor can be combined company-specific	S00 ... S12
power loss [W] for rated value of the current - at AC in hot operating state - at AC in hot operating state per pole	0.5 W 0.17 W
insulation voltage with degree of pollution 3 at AC rated value	300 V
surge voltage resistance rated value	4 kV
protection class IP on the front	IP20
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	PTB 05 ATEX 3022
reference code acc. to IEC 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 current response value current of the current-dependent overload release	0.3 ... 630 A
operating voltage	
• at AC-3 rated value maximum	1 000 V
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	2
number of CO contacts	
• for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	6 A
• at 110 V	6 A
• at 120 V	6 A
• at 125 V	6 A
• at 230 V	3 A
operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.55 A
• at 110 V	0.3 A
• at 125 V	0.3 A
• at 220 V	0.2 A
Protective and monitoring functions	
trip class	Class 5, 10, 20 and 30 adjustable
Short-circuit protection	
design of the fuse link	
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	stand-alone installation
height	111 mm

width	45 mm
depth	95 mm
required spacing	
• 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 auxiliary and control circuit	screw-type terminals
• type of connectable conductor cross-sections for auxiliary contacts — finely stranded with core end processing • type of connectable conductor cross-sections at AWG cables for auxiliary contacts	0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²) 2x (24 ... 16)

Certificates/ approvals

General Product Approval	EMC	For use in hazardous locations
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CSA



CCC



UL



RCM



ATEX

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

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



LRS

Marine / Shipping	other
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[Confirmation](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB2283-4AA1>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2283-4AA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2283-4AA1>

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

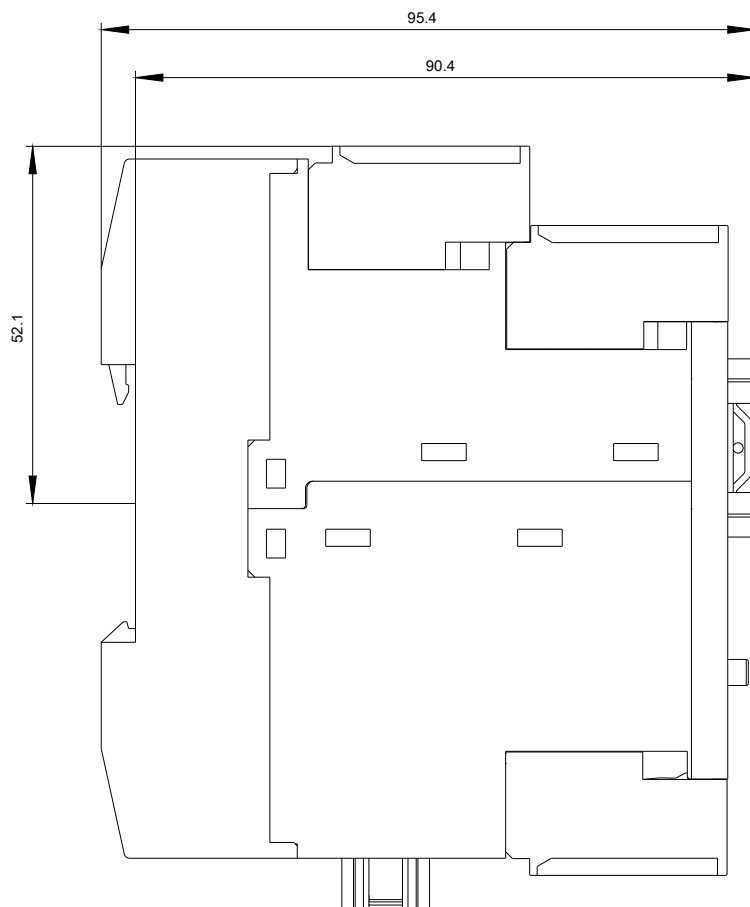
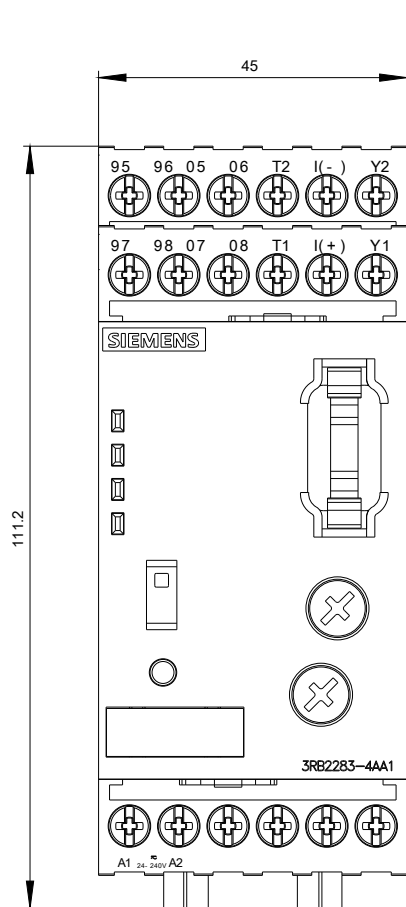
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2283-4AA1&lang=en

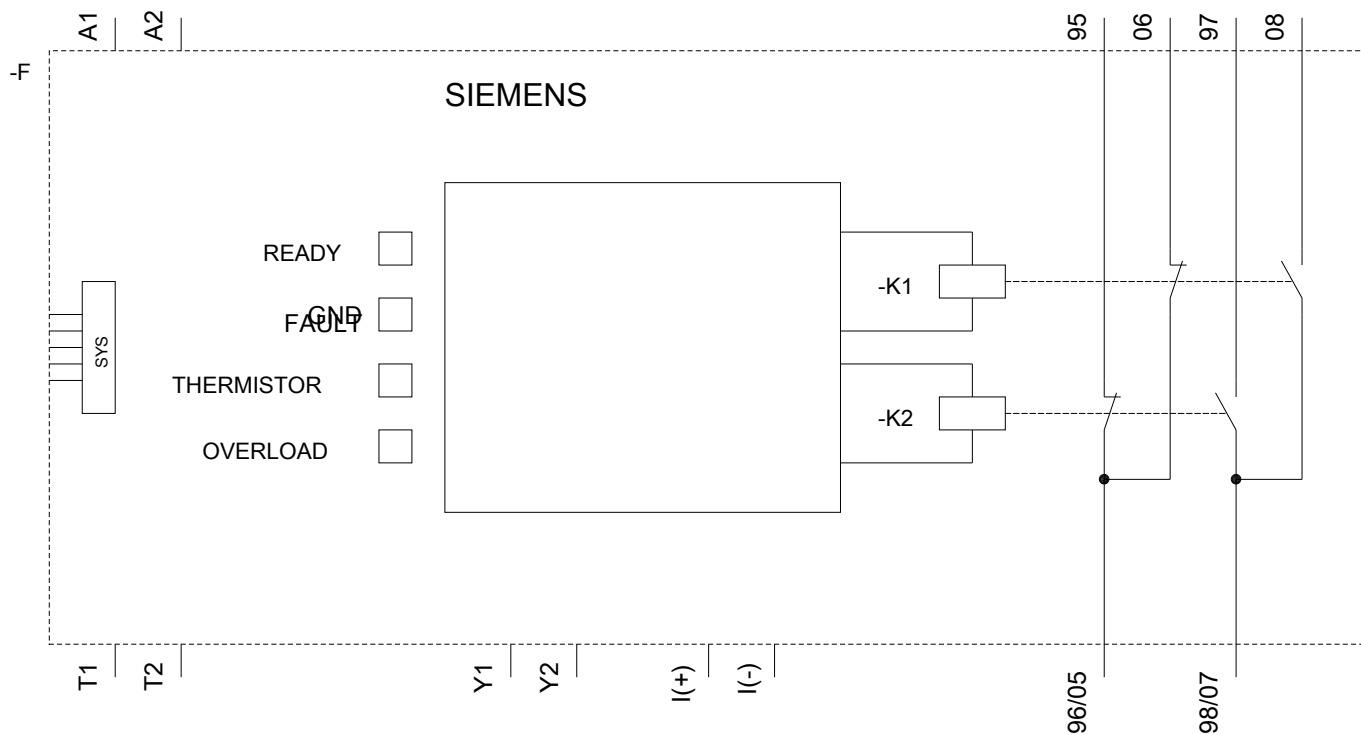
Characteristic: Tripping characteristics, I_t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2283-4AA1/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2283-4AA1&objecttype=14&gridview=view1>





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11/17/2020