



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

product brand name	SIRIUS
product designation	Electronic overload relay for IO-Link
product type designation	3RB24

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	0.5 W
per pole	0.17 W
insulation voltage with degree of pollution 3 at AC rated value	300 V
surge voltage resistance rated value	4 kV
shock resistance according to IEC 60068-2-27	15g / 11 ms
type of protection according to ATEX directive 2014/34/EU	Ex II (2) G [Ex e] [Ex d] [Ex px] ; Ex II (2) D [Ex t] [Ex p]
certificate of suitability according to ATEX directive 2014/34/EU	PTB 11 ATEX 3014
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	05/28/2009

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 frequency rated value	50 ... 60 Hz
operational current rated value	630 A

Auxiliary circuit

number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	1
operational current of auxiliary contacts at AC-15	
at 24 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 125 V • at 220 V	0.3 A 0.2 A
Protective and monitoring functions	
trip class	CLASS 5, 10, 20 and 30 adjustable
UL/CSA ratings	
contact rating of auxiliary contacts according to UL	B300 / R300
Short-circuit protection	
design of the fuse link • for short-circuit protection of the auxiliary switch required	fuse 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 — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — downwards — at the side	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 6 mm 0 mm 0 mm 0 mm 0 mm 0 mm 6 mm
Connections/ Terminals	
product component 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 — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts	1x (0,5 ... 4 mm ²), 2x (0,5 ... 2,5 mm ²) 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) 1x (20 ... 12), 2x (20 ... 14)
Safety related data	
failure rate [FIT] with low demand rate according to SN 31920	2 310 FIT
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	EMC



[Confirmation](#)



For use in hazardous locations	Declaration of Conformity	Test Certificates	other
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EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3RB2483-4AA1>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2483-4AA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2483-4AA1>

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

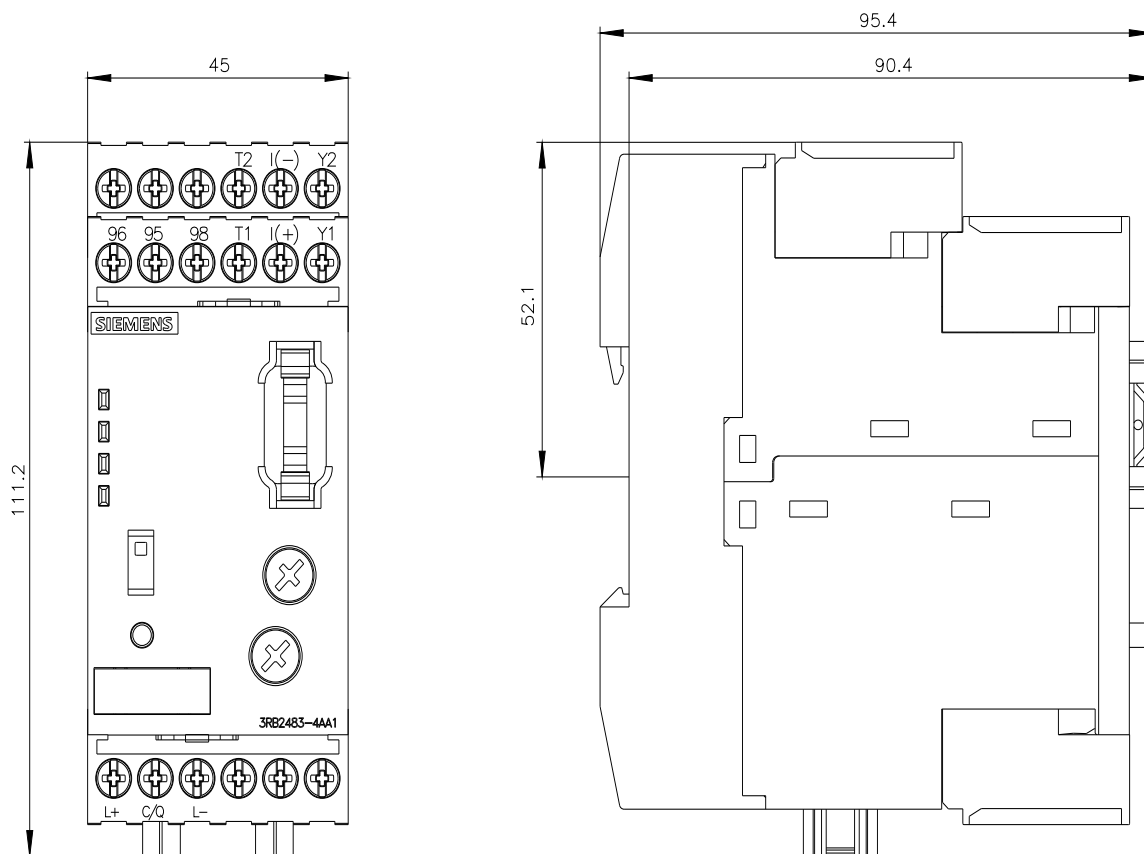
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2483-4AA1&lang=en

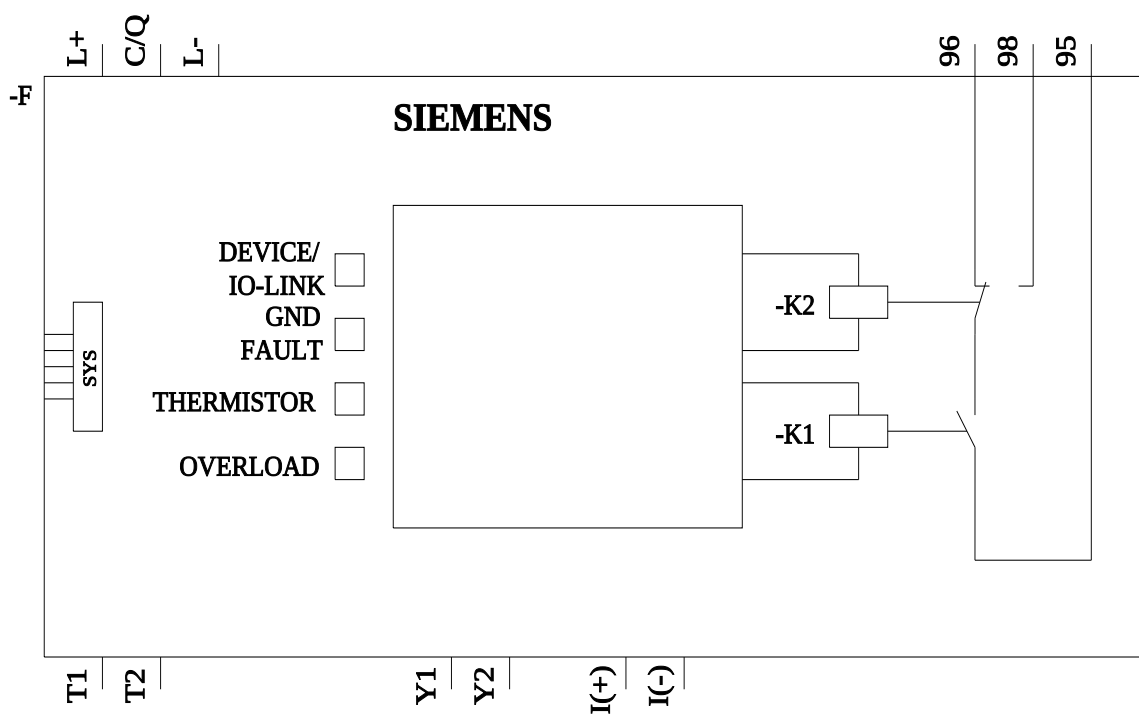
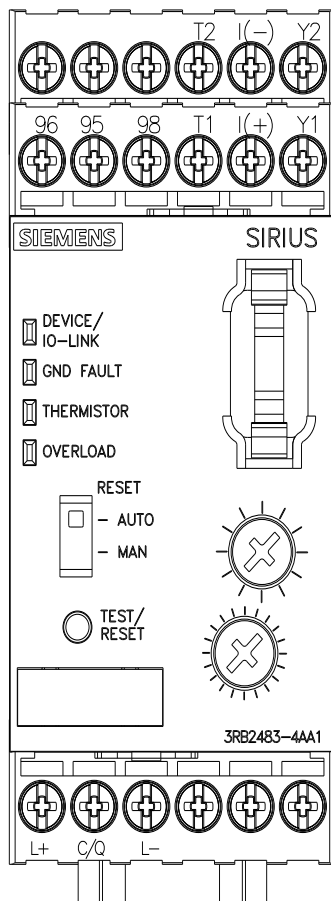
Characteristic: Tripping characteristics, I^2t , Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2483-4AA1/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2483-4AA1&objecttype=14&gridview=view1>





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5/2/2022