



PROCESSING UNIT FOR FULL MOTOR PROTECTION
(MONOSTABLE) FOR IO-LINK SIZE S00...S12, CLASS 5...30
STAND-ALONE INSTALLATION MAIN CIRCUIT: -- AUX. CIRCUIT:
SPRINGLOAD. TERM. 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] total typical	0.5 W
Insulation voltage with degree of pollution 3 rated value	300 V
Surge voltage resistance rated value	4 kV
Protection class IP	
• on the front	IP20
• of the terminal	IP20
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	F

Ambient conditions	
Ambient temperature	
• during operation	-25 ... +60 °C

- during storage -40 ... +80 °C
- during transport -40 ... +80 °C

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	0.3 ... 630 A
Operating frequency rated value	50 ... 60 Hz

Auxiliary circuit

Number of NC contacts	
• for auxiliary contacts	0
Number of NO contacts	
• for auxiliary contacts	1
Number of CO contacts	
• for auxiliary contacts	1
Operating current of auxiliary contacts at AC-15	
• at 24 V	6 A
• at 125 V	6 A
• at 230 V	3 A
Operating current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.55 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
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UL/CSA ratings

Contact rating of auxiliary contacts according to UL	B300 / R300
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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
Mounting type	stand-alone installation
Height	113 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 current circuit	spring-loaded terminals
Type of connectable conductor cross-sections	
• for auxiliary contacts	
— single or multi-stranded	1x (0,25 ... 1,5 mm ²), 2x (0,25 ... 1,5 mm ²)
— finely stranded with core end processing	1x (0.25 ... 1.5 mm ²), 2x (0.25 ... 1.5 mm ²)
— finely stranded without core end processing	1x (0.25 ... 1.5 mm ²), 2x (0.25 ... 1.5 mm ²)
• at AWG conductors for auxiliary contacts	1x (24 ... 16), 2x (24 ... 16)

Safety related data

Failure rate [FIT]	
• with low demand rate acc. to SN 31920	2 310 FIT

Certificates/approvals

General Product Approval	For use in hazardous locations	Declaration of Conformity
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Test Certificates	other
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Environmental Confirmations](#)

[Confirmation](#)

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=3RB2483-4AC1>

Cax online generator

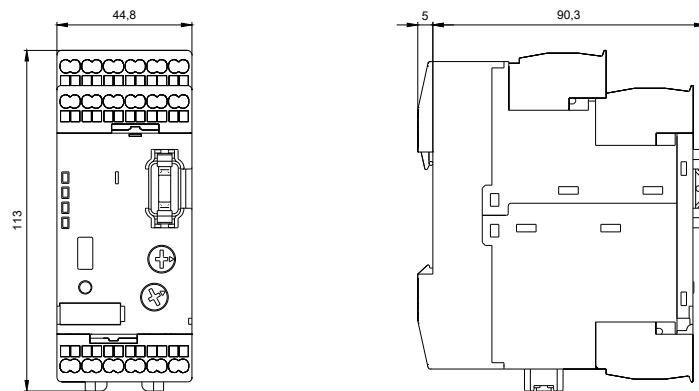
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2483-4AC1>

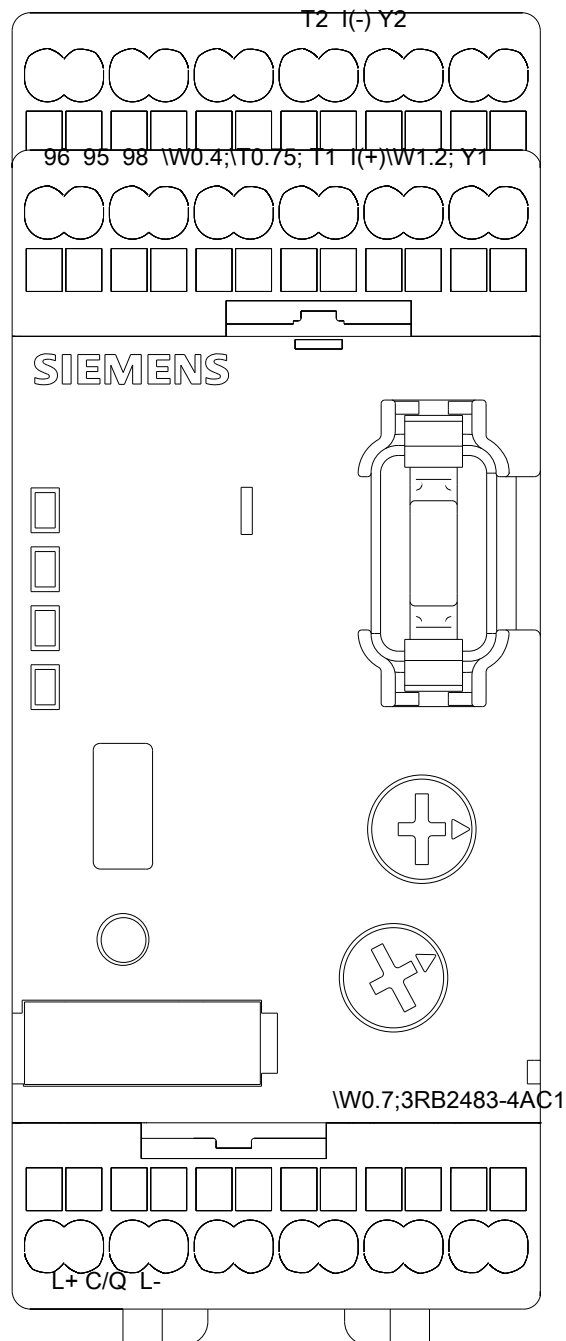
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

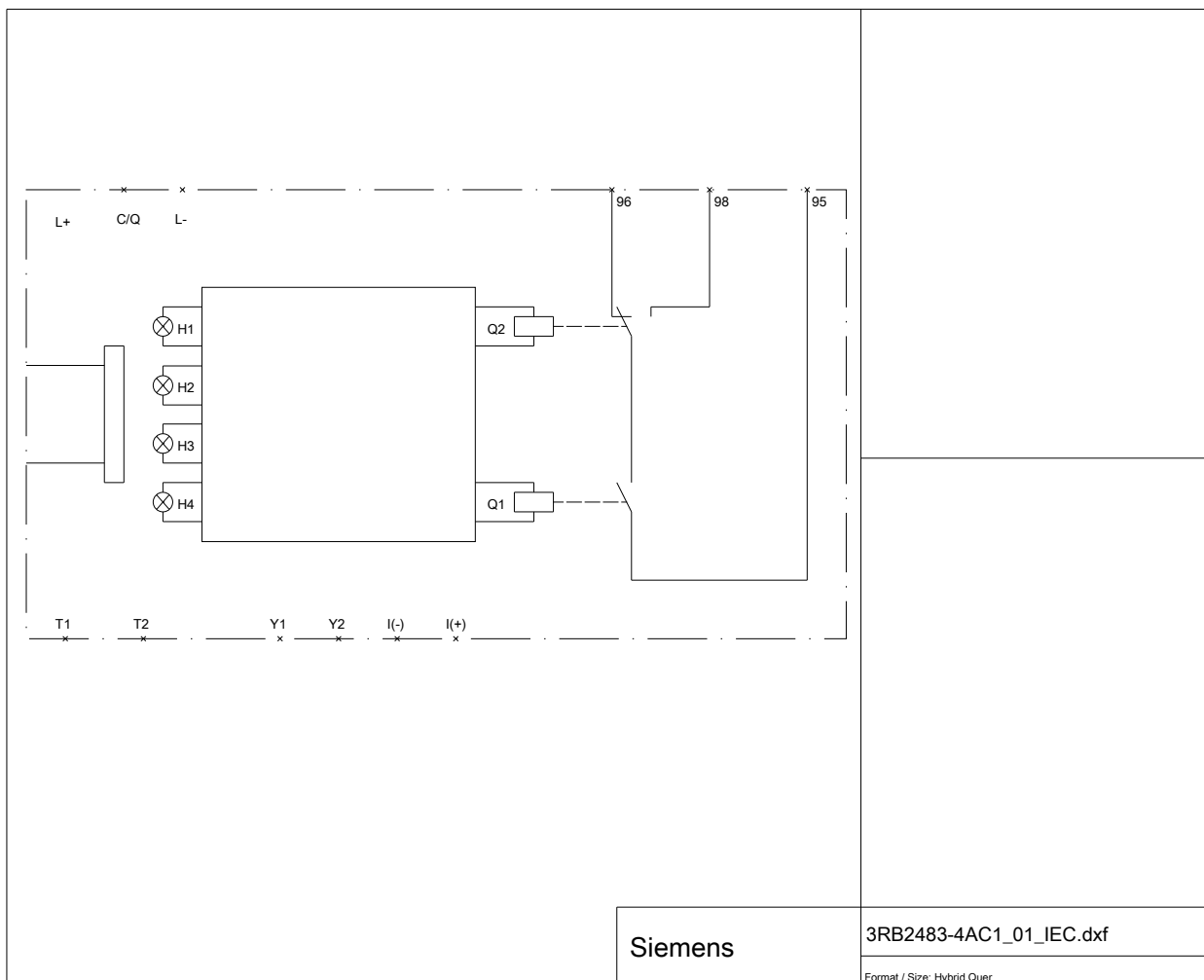
<https://support.industry.siemens.com/cs/ww/en/ps/3RB2483-4AC1>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2483-4AC1&lang=en







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