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Data sheet 3RB2483-4AC1



evaluation unit for full motor protection (monostable) for IO-Link frame size S00...S12, class 5...30 stand-alone installation main circuit: -- auxiliary circuit: spring-loaded 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	15 g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (day/month/year)	05/28/2009
SVHC substance name	Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
Net Weight	252.83 g
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

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operational 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
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	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 component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
● for auxiliary and control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
● for auxiliary contacts	
— solid or stranded	1x (0,25 ... 1,5 mm²), 2x (0,25 ... 1,5 mm²)
— finely stranded with core end processing	1x (0.25 ... 1.5 mm²), 2x (0.25 ... 1.5 mm²)
— finely stranded without core end processing	1x (0.25 ... 1.5 mm²), 2x (0.25 ... 1.5 mm²)
● for AWG cables for auxiliary contacts	1x (24 ... 16), 2x (24 ... 16)
Safety related data	
failure rate [FIT] with low demand rate according to SN 31920	2 310 FIT
Electrical Safety	
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
Approvals Certificates	

Environment	**General Product Approval**

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Environmental Confirmations					
					

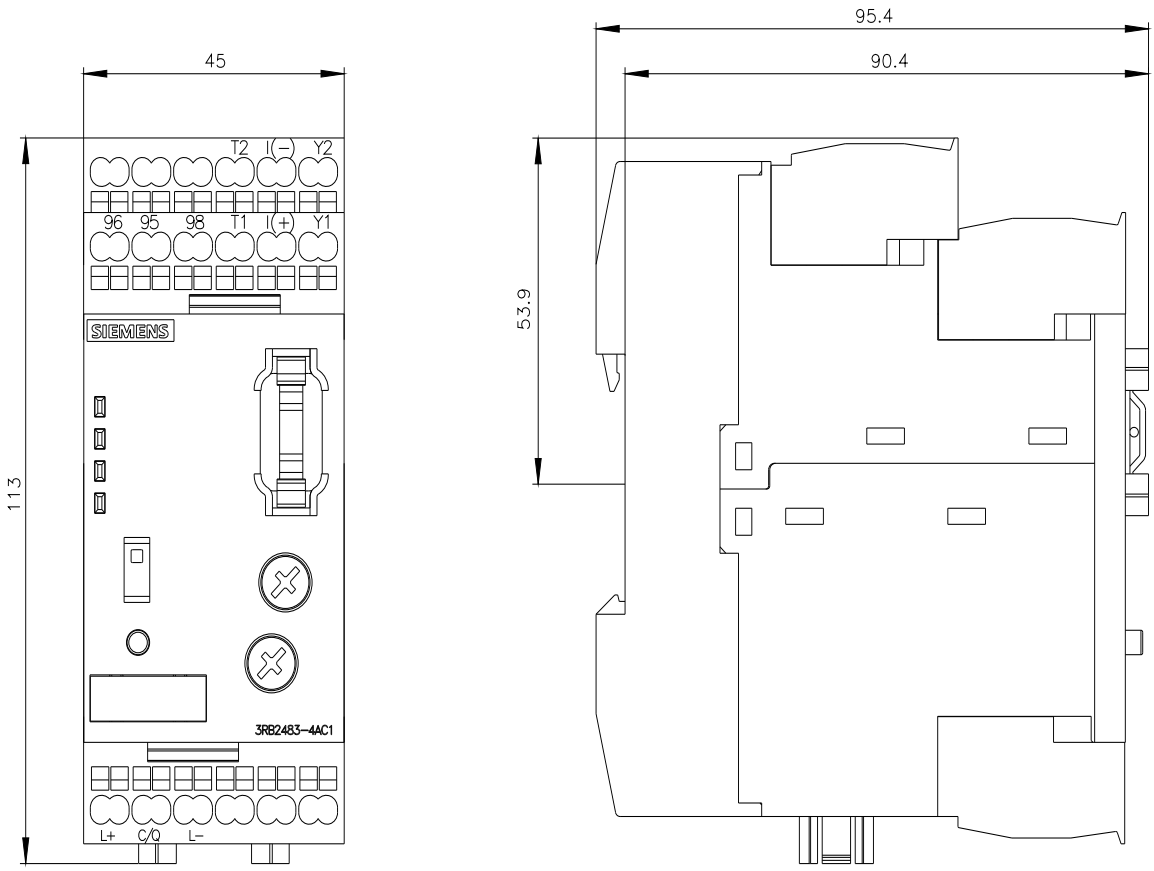
General Product Approval	EMV	For use in hazardous locations	Test Certificates	
				Special Test Certificate	Type Test Certificates/Test Report

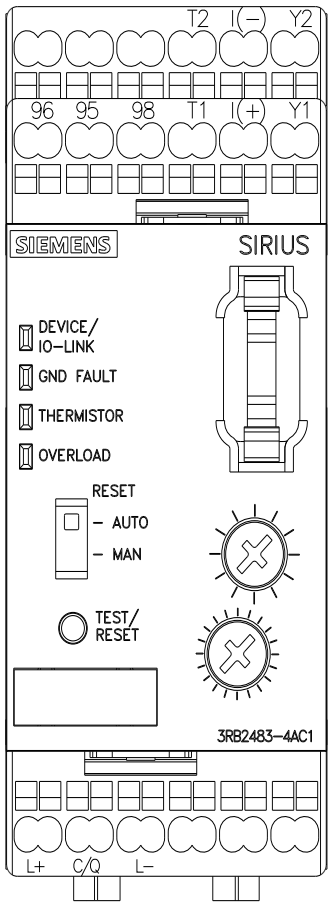
other		
Confirmation	Confirmation	

Further information

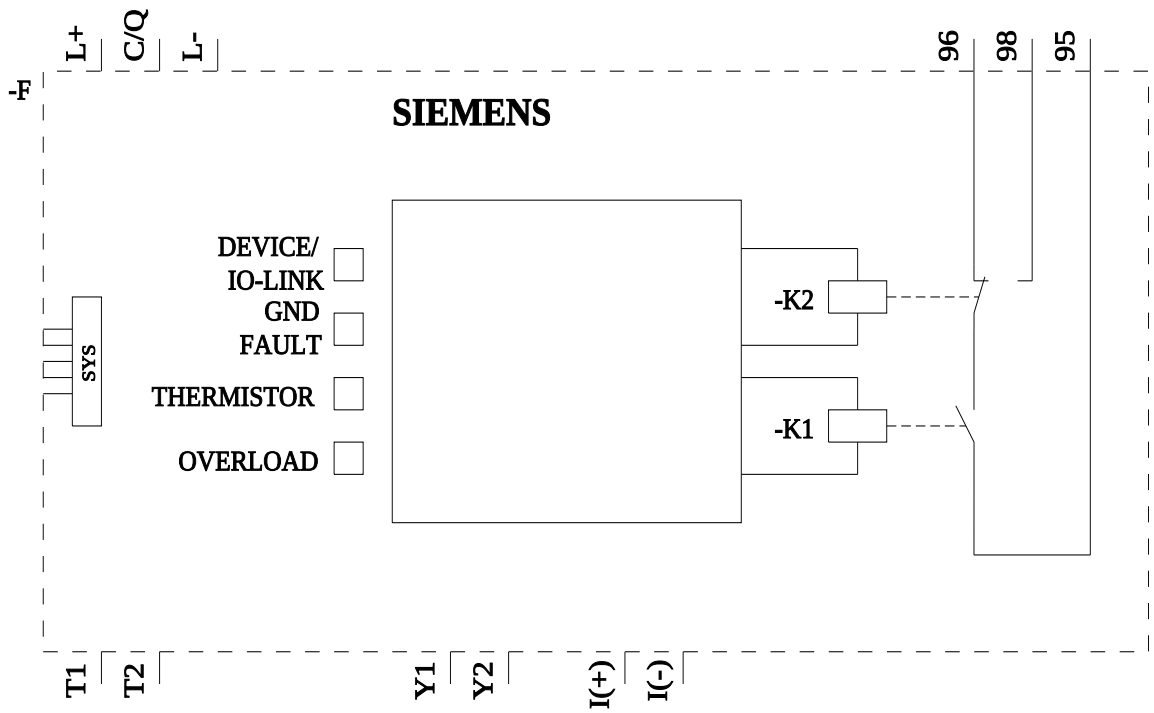
Information on the packaging
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Information for data generation and storage
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Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10
Industry Mall (Online ordering system)
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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, ...)
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