

Evaluation unit for full motor protection (monostable) Size S00...S12, class 5...30 Stand-alone installation Main circuit: -- Auxiliary circuit: Spring-type 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	0.5 W
• at AC in hot operating state 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
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 DIN EN 81346-2	F

Ambient conditions	
<b>Installation altitude at height above sea level</b>	
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	2 000 m
Relative humidity during operation	100 %
Main circuit	
<b>Number of poles for main current circuit</b>	3
<b>Adjustable pick-up value current of the current-dependent overload release</b>	0.3 ... 630 A
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> </ul>	1 000 V
Auxiliary circuit	
<b>Number of NC contacts for auxiliary contacts</b>	2
<b>Number of NO contacts for auxiliary contacts</b>	2
<b>Number of CO contacts</b>	
<ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>	0
<b>Operating current of auxiliary contacts at AC-15</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 110 V</li> <li>• at 120 V</li> <li>• at 125 V</li> <li>• at 230 V</li> </ul>	6 A 6 A 6 A 6 A 3 A
<b>Operating current of auxiliary contacts at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 60 V</li> <li>• at 110 V</li> <li>• at 125 V</li> <li>• at 220 V</li> </ul>	2 A 0.55 A 0.3 A 0.3 A 0.2 A
Protective and monitoring functions	
<b>Trip class</b>	Class 5, 10, 20 and 30 adjustable
Short-circuit protection	
<b>Design of the fuse link</b>	
<ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 6 A
Installation/ mounting/ dimensions	
<b>Mounting position</b>	any
<b>Mounting type</b>	stand-alone installation
<b>Height</b>	111 mm
<b>Width</b>	45 mm
<b>Depth</b>	95 mm
<b>Required spacing</b>	
<ul style="list-style-type: none"> <li>• with side-by-side mounting</li> </ul>	

— 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

<b>Product function</b>	
• removable terminal for auxiliary and control circuit	Yes
<b>Type of electrical connection</b>	
• for auxiliary and control current circuit	spring-loaded terminals
<b>Type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— finely stranded with core end processing	2x (0.25 ... 1.5 mm <sup>2</sup> )
• at AWG conductors for auxiliary contacts	2x (24 ... 16)

#### Certificates/ approvals

General Product Approval	EMC	For use in hazardous locations
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Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



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=3RB2283-4AC1>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2283-4AC1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2283-4AC1>

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

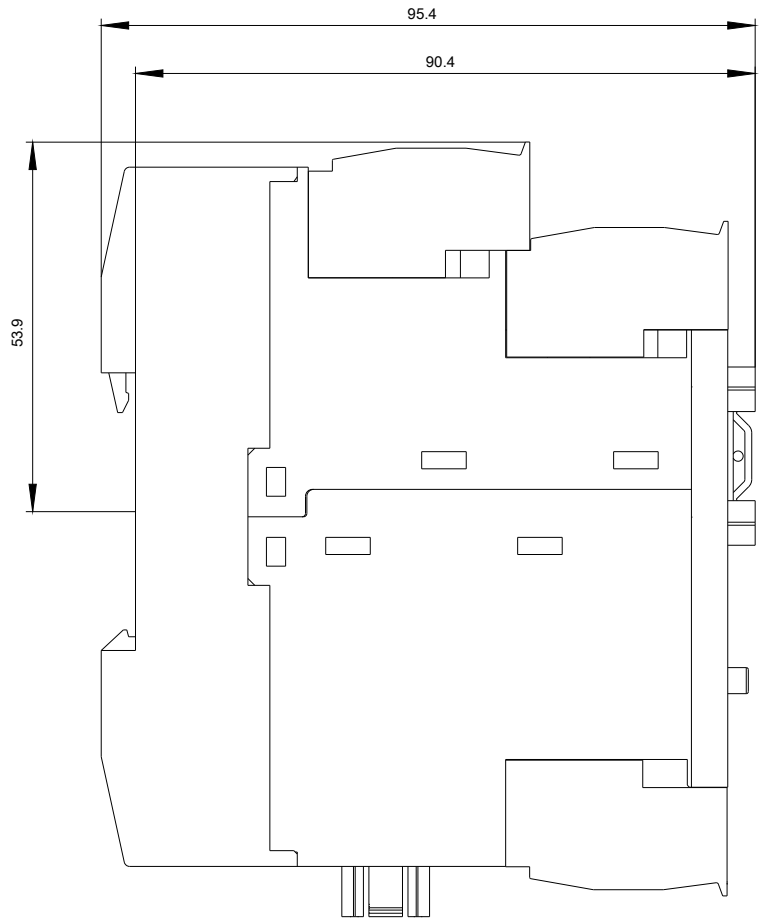
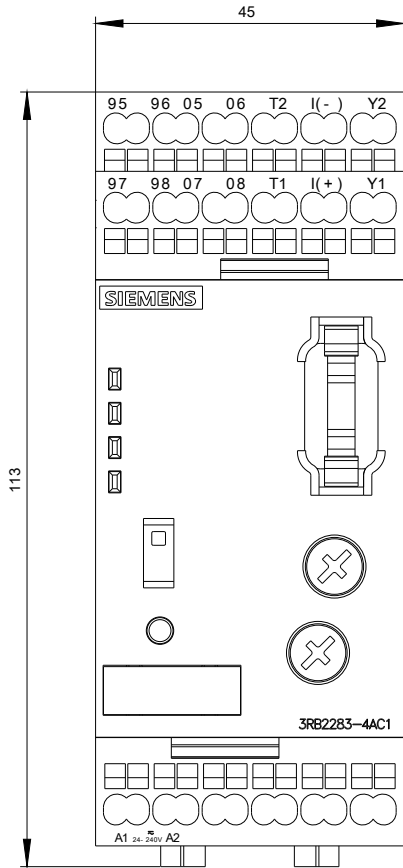
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RB2283-4AC1&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2283-4AC1&lang=en)

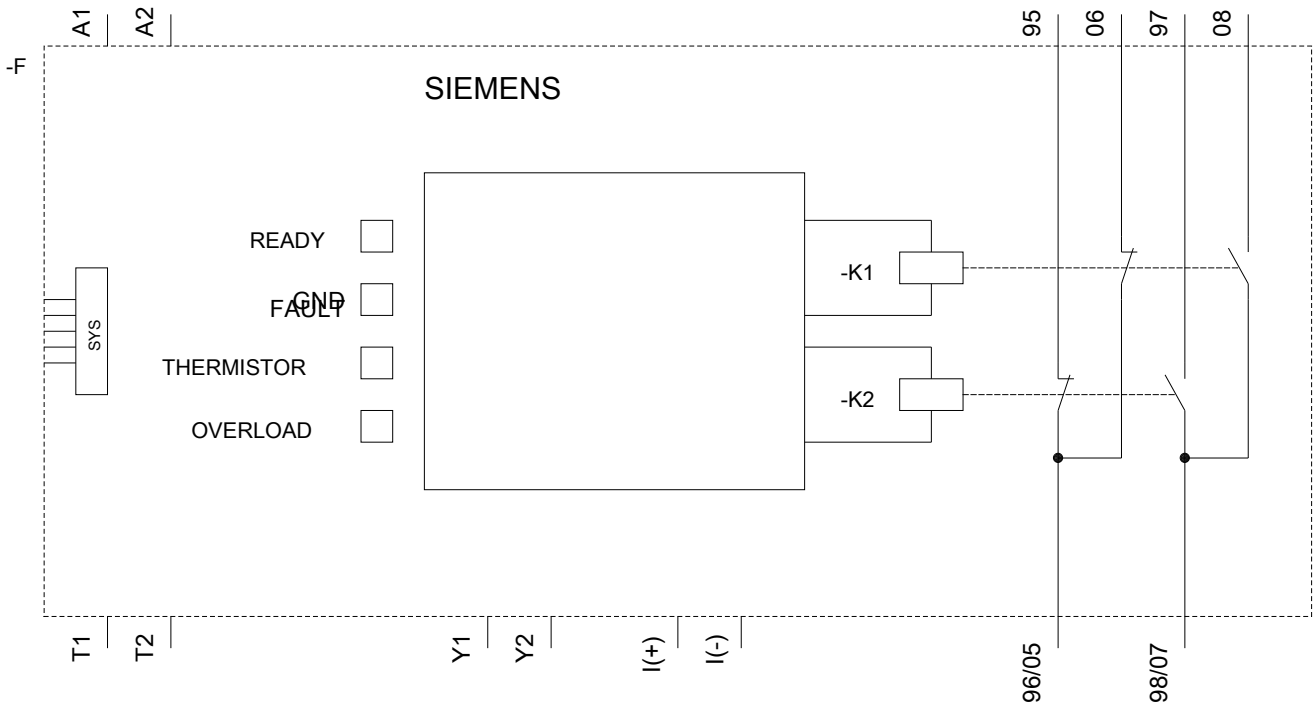
**Characteristic: Tripping characteristics, I<sup>t</sup>, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RB2283-4AC1/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2283-4AC1&objecttype=14&gridview=view1>





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