



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
• 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
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	05/28/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7
Weight	0.265 kg
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
operational current rated value	630 A
control supply voltage at AC	
• at 50 Hz rated value	24 ... 240 V
• at 60 Hz rated value	24 ... 240 V
Auxiliary circuit	
number of NC contacts for auxiliary contacts	2
number of NO contacts for auxiliary contacts	2
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 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			
— finely stranded with core end processing	2x (0.25 ... 1.5 mm²)		
• for AWG cables for auxiliary contacts	2x (24 ... 16)		
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			
General Product Approval	EMV		
 CCC  UK CA  EG-Konf.  UL  EAC  RCM			
EMV	For use in hazardous locations	Test Certificates	Marine / Shipping

[KC](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping

other

Environment



[Confirmation](#)

[Environmental Confirmations](#)

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=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, ...)

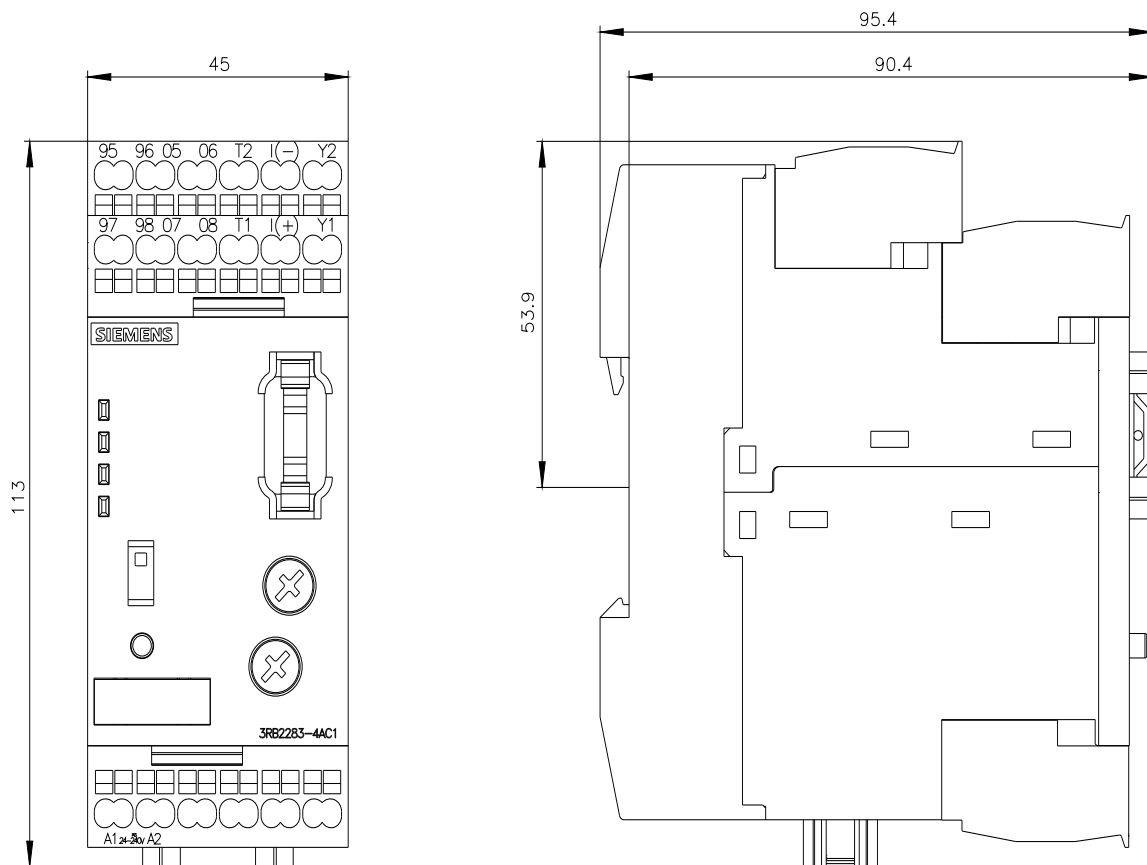
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2283-4AC1&lang=en

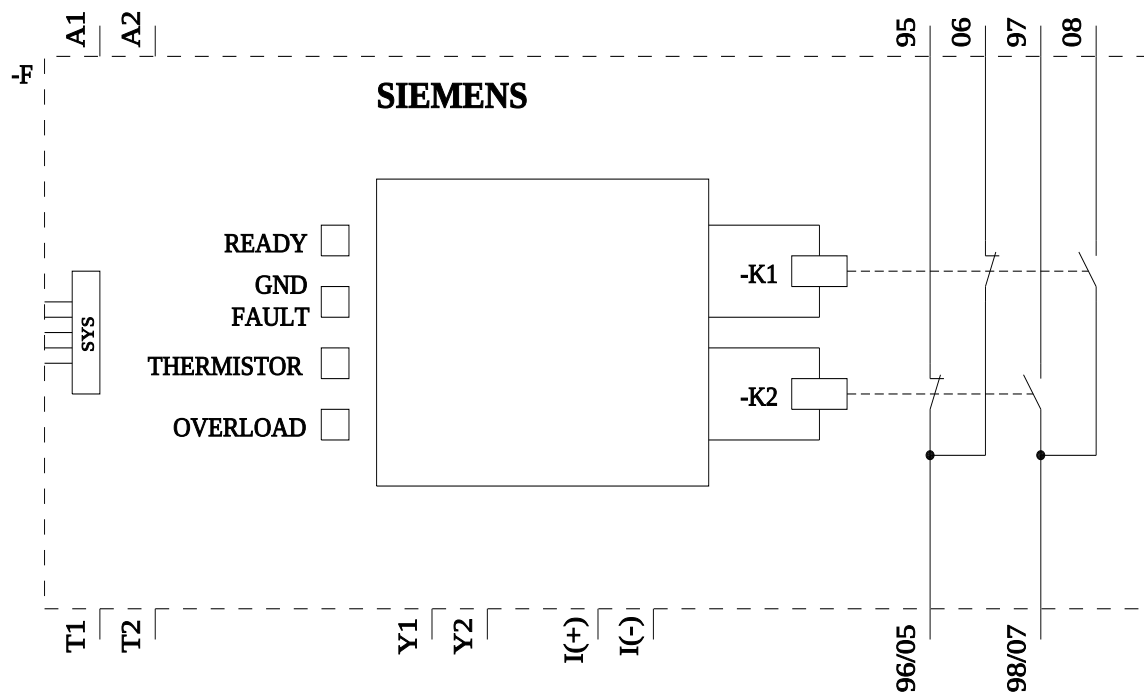
Characteristic: Tripping characteristics, I²t, Let-through current

<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>





last modified:

4/2/2025 

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