SIEMENS

Data sheet 3RB2283-4AA1



Evaluation unit for full motor protection (monostable) Size S00...S12, class 5...30 Stand-alone installation Main circuit: -- Auxiliary circuit: Screw 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
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 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
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	0140054000 100 15411
trip class	CLASS 5, 10, 20 and 30 adjustable
Short-circuit protection	
design of the fuse link	f 1/O- C A
 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	screw-type terminals
type of connectable conductor cross-sections	
for auxiliary contacts	
— finely stranded with core end processing	0.5 2.5 mm², 2x (0.5 1.5 mm²)
at AWG cables for auxiliary contacts	2x (24 16)
Safety related data	
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	्र १०१ 🔊











For use in hazard- ous locations	Declaration of Conformity	Test Certificates	Marine / Shipping
-------------------------------------	---------------------------	-------------------	-------------------







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

other





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=3RB2283-4AA1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2283-4AA1

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB2283-4AA1

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

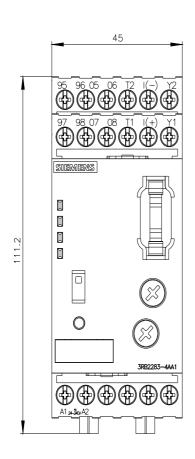
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB2283-4AA1&lang=en

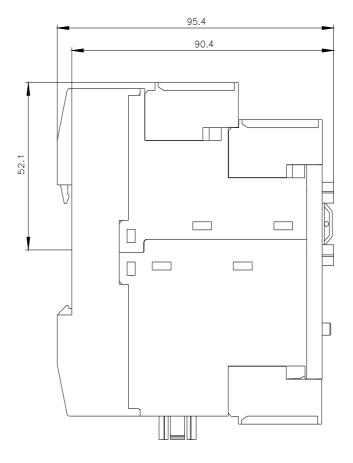
Characteristic: Tripping characteristics, I2t, Let-through current

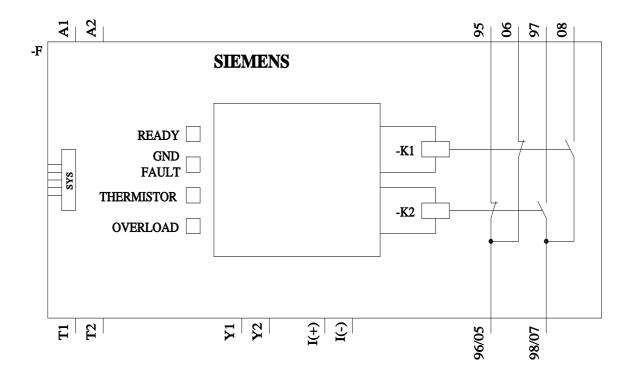
https://support.industry.siemens.com/cs/ww/en/ps/3RB2283-4AA1/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2283-4AA1&objecttype=14&gridview=view1







last modified: 2/9/2022 🖸