



PROCESSING UNIT FOR FULL MOTOR PROTECTION
 SIZE S00...S12,
 CLASS 5...30 STAND-ALONE INSTALLATION MAIN
 CIRCUIT: -- AUX. CIRCUIT: SCREW CONNECTION
 MANUAL-AUTOMATIC-RESET

General technical data:

product brand name		SIRIUS
Product designation		solid-state overload relay
Size of overload relay		S00 ... S12
Number of poles / for main current circuit		3
Product function / removable terminal for auxiliary and control circuit		Yes
Impulse voltage resistance / rated value	kV	4
Protection class IP		IP20
Protection class IP / on the front		IP20
Protection against electrical shock		finger-safe
Installation altitude / at a height over sea level / maximum	m	2,000
Resistance against shock		15g / 11 ms
Ambient temperature		
• during transport	°C	-40 ... +80
• during storage	°C	-40 ... +80
• during operating	°C	-25 ... +60
Relative humidity / during operating phase / maximum	%	100
Electrostatic discharge / according to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge
Field-bound parasitic coupling / according to IEC 61000-4-3		10 V/m

Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3
Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3
Type of protection		PTB 05 ATEX 3022 Ex II (2) GD
Active power loss / total / typical	W	0.5
Size of the contactor / can be combined / company-specific		S00 ... S12

Main circuit:

Type of voltage

AC/DC

Control circuit/ Control:

Control supply voltage

- for DC / rated value
- at 50 Hz / at AC / rated value
- at 60 Hz / at AC / rated value

V	24 ... 240
V	24 ... 240
V	24 ... 240

Auxiliary circuit:

Number of NC contacts / for auxiliary contacts

2

Number of NO contacts / for auxiliary contacts

2

Number of changeover contacts / for auxiliary contacts

0

Design of the fuse link / for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 6 A

Operating current / of the auxiliary contacts

- at AC-15
 - at 24 V
 - at 110 V
 - at 120 V
 - at 125 V
 - at 230 V
- at DC-13
 - at 24 V
 - at 60 V
 - at 110 V
 - at 125 V
 - at 220 V

A	6
A	6
A	6
A	6
A	3
A	2
A	0.55
A	0.3
A	0.3
A	0.2

Protective and monitoring functions:

Trip class

CLASS 5, 10, 20 and 30 adjustable

Adjustable response current / of the current-dependent overload release

A 0.3 ... 630










Installation/ mounting/ dimensions:

Mounting type		stand-alone installation
mounting position		any
Depth	mm	95
Height	mm	111
Width	mm	45

Connections/ terminals:

Design of the electrical connection <ul style="list-style-type: none">• for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section <ul style="list-style-type: none">• for auxiliary contacts<ul style="list-style-type: none">• solid• finely stranded<ul style="list-style-type: none">• with conductor end processing• for AWG conductors / for auxiliary contacts		0.5 ... 4 mm ² , 2x (0.5 ... 2.5 mm ²) 0.5 ... 2.5 mm ² , 2x (0.5 ... 1.5 mm ²) 2x (24 ... 16)

Certificates/ approvals:

General Product Approval	EMC	For use in hazardous locations
 CCC	 C-TICK	 ATEX
 CSA		
 UL		
Test Certificates	Shipping Approval	
Special Test Certificate	 ABS	 GL
Type Test Certificates/Test Report	 DNV	 LRS
other		
Confirmation	Declaration of Conformity	Environmental Confirmations

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

Cax online generator

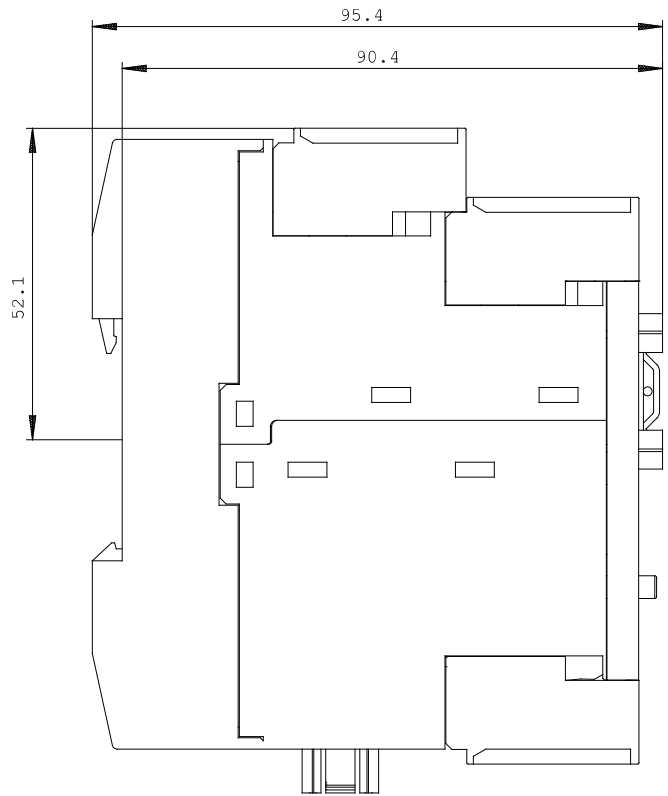
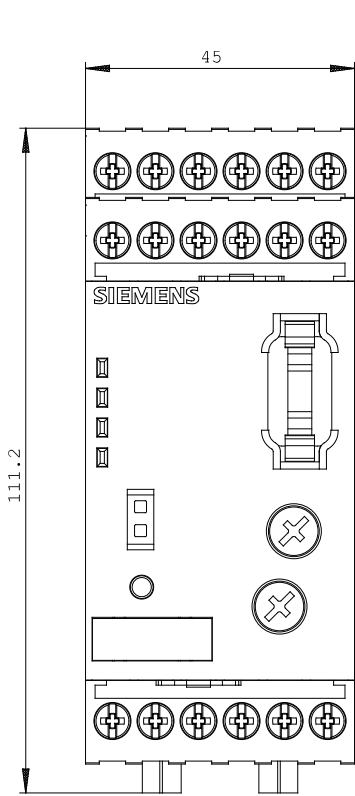
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RB2283-4AA1/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB2283-4AA1



last change:

Jun 16, 2014