



PROCESSING UNIT FOR FULL MOTOR PROTECTION  
 SIZE S00...S12,  
 CLASS 5...30 STAND-ALONE INSTALLATION MAIN  
 CIRCUIT: -- AUX. CIRCUIT: SPRINGLOAD. TERM.  
 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                                      |

|                                                                                                  |   |                                                                             |
|--------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| <b>Conductor-bound parasitic coupling BURST / according to IEC 61000-4-4</b>                     |   | 2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 |
| <b>Conductor-bound parasitic coupling conductor-earth SURGE / according to IEC 61000-4-5</b>     |   | 2 kV (line to earth) corresponds to degree of severity 3                    |
| <b>Conductor-bound parasitic coupling conductor-conductor SURGE / according to IEC 61000-4-5</b> |   | 1 kV (line to line) corresponds to degree of severity 3                     |
| <b>Active power loss / total / typical</b>                                                       | W | 0.5                                                                         |
| <b>Size of the contactor / can be combined / company-specific</b>                                |   | 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

- for auxiliary and control current circuit

spring-loaded terminals

##### Type of the connectable conductor cross-section

- for auxiliary contacts
  - solid
  - finely stranded
    - with conductor end processing
- for AWG conductors / for auxiliary contacts

2x (0.25 ... 1.5 mm<sup>2</sup>)

2x (0.25 ... 1.5 mm<sup>2</sup>)

2x (24 ... 16)

#### Certificates/ approvals:

##### General Product Approval

##### EMC



CCC



CSA



UL



C-TICK

##### Test Certificates

##### Shipping Approval

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS



DNV



GL



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

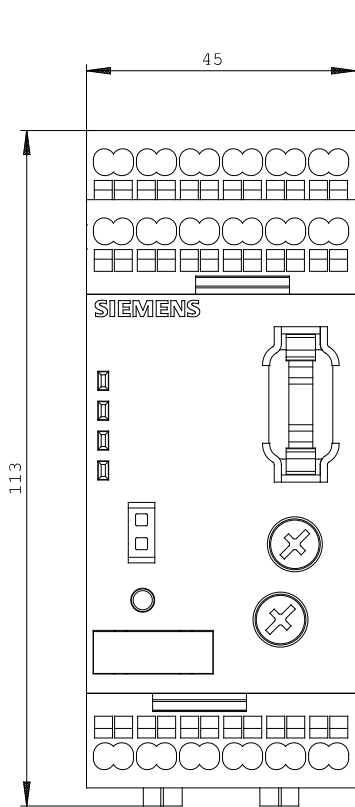
<http://www.siemens.com/cax>

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

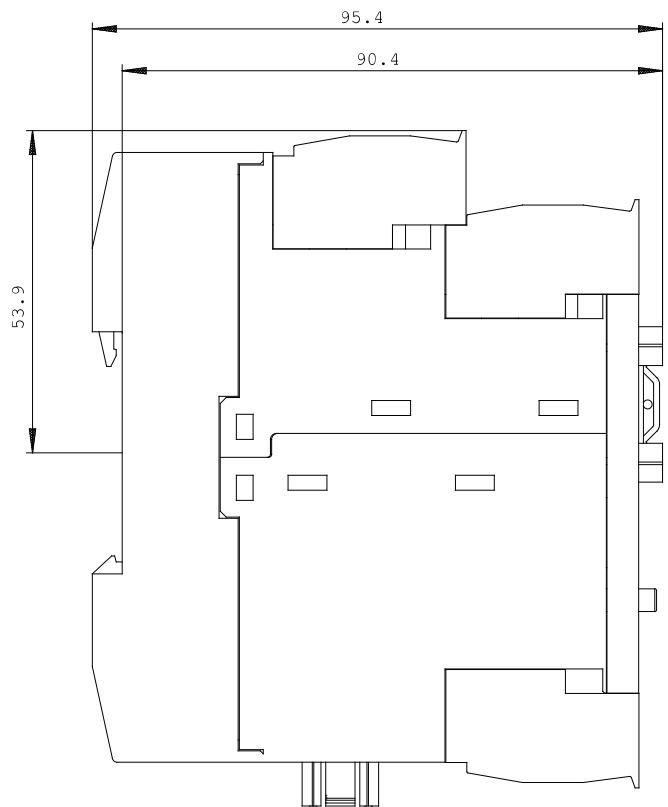
<http://support.automation.siemens.com/WW/view/en/3RB2383-4AC1/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RB2383-4AC1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB2383-4AC1)



last change:



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