



PROCESSING UNIT FOR FULL MOTOR PROTECTION (MONOSTABLE) FOR IO-LINK 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                                                                                                                            |                | Electronic overload relay for IO-Link     |
| Size of overload relay                                                                                                                         |                | S00 ... S12                               |
| Number of poles / for main current circuit                                                                                                     |                | 3                                         |
| Product function / removable terminal for auxiliary and control circuit                                                                        |                | Yes                                       |
| Insulation voltage / with degree of pollution 3 / rated value                                                                                  | V              | 300                                       |
| Impulse voltage resistance / rated value                                                                                                       | kV             | 4                                         |
| Protection class IP <ul style="list-style-type: none"> <li>• of the terminal</li> <li>• on the front</li> </ul>                                |                | IP20<br>IP20                              |
| Protection against electrical shock                                                                                                            |                | finger-safe                               |
| Installation altitude / at a height over sea level / maximum                                                                                   | m              | 2,000                                     |
| Ambient temperature <ul style="list-style-type: none"> <li>• during transport</li> <li>• during storage</li> <li>• during operating</li> </ul> | °C<br>°C<br>°C | -40 ... +80<br>-40 ... +80<br>-25 ... +60 |
| Relative humidity <ul style="list-style-type: none"> <li>• during operating phase</li> </ul>                                                   | / %            | 100                                       |

|                                                                       |   |                                                                             |
|-----------------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| EMC immunity to interference / according to IEC 60947-1               |   | corresponds to degree of severity 3                                         |
| 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              |   | 2 kV (line to earth) corresponds to degree of severity 3                    |
| Conductor-bound parasitic coupling conductor-conductor SURGE          |   | 1 kV (line to line) corresponds to degree of severity 3                     |
| Type of protection                                                    |   | PTB 11 ATEX 3014                                                            |
| Active power loss / total / typical                                   | W | 0.5                                                                         |
| Size of the contactor / can be combined / company-specific            |   | S00 ... S12                                                                 |

#### Main circuit:

##### Operating current

- of the auxiliary contacts
  - at AC-15
    - at 24 V
    - at 125 V
    - at 230 V
  - at DC-13
    - at 24 V
    - at 60 V
    - at 125 V
    - at 220 V

|   |      |
|---|------|
| A | 6    |
| A | 6    |
| A | 3    |
| A | 2    |
| A | 0.55 |
| A | 0.3  |
| A | 0.2  |

##### Type of assignment

1 and 2

#### Control circuit/ Control:

##### Type of voltage supply / via input/ output link master

Yes

##### Voltage type / for auxiliary and control circuit

AC/DC

#### Auxiliary circuit:

##### Number of NC contacts / for auxiliary contacts

0

##### Number of NO contacts / for auxiliary contacts

1

##### Number of changeover contacts / for auxiliary contacts

1

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

fuse gL/gG: 6 A

#### 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

#### Safety related data:

|                                                                   |     |       |
|-------------------------------------------------------------------|-----|-------|
| Failure rate [FIT] / with low demand rate / according to SN 31920 | FIT | 2,310 |
|-------------------------------------------------------------------|-----|-------|

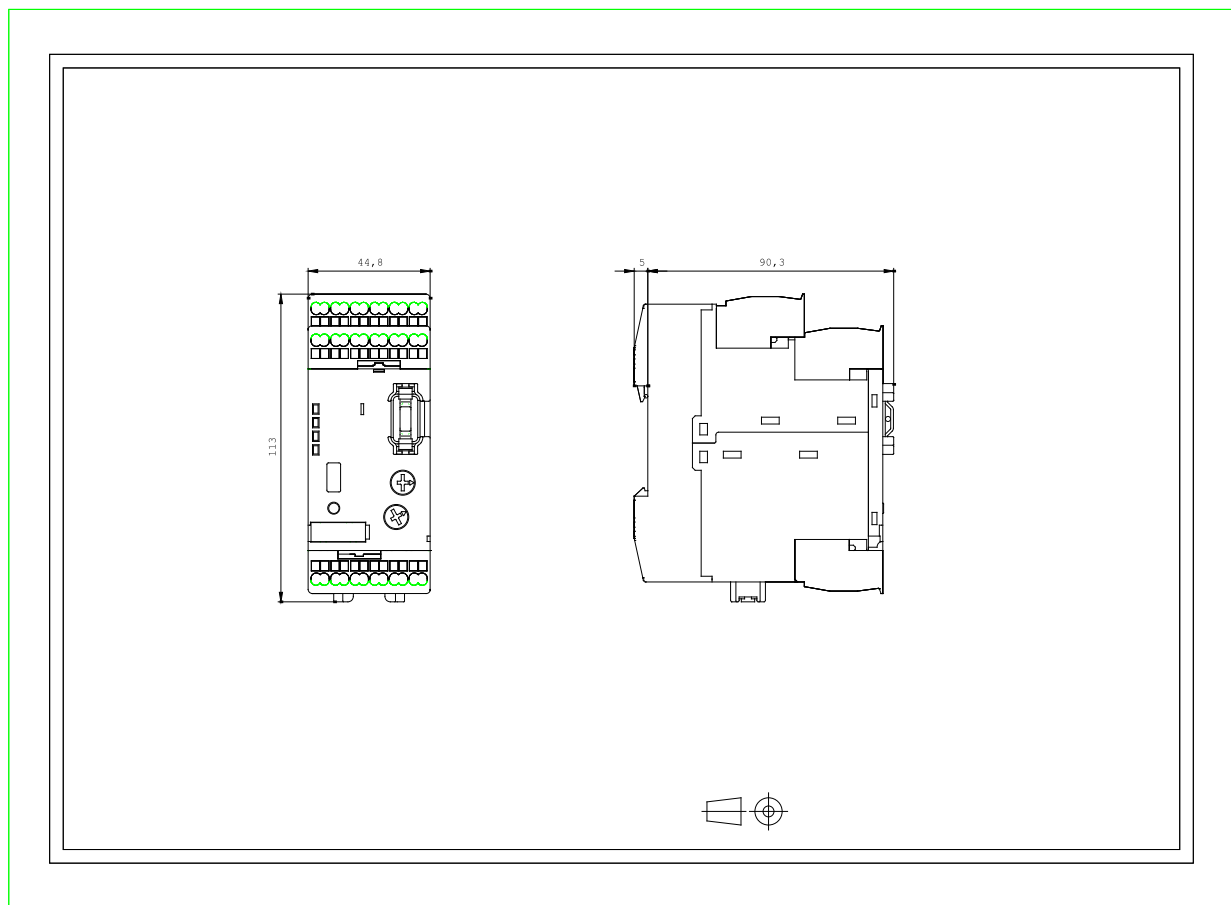
| Installation/ mounting/ dimensions: |    |                          |
|-------------------------------------|----|--------------------------|
| Mounting type                       |    | stand-alone installation |
| mounting position                   |    | any                      |
| Depth                               | mm | 95                       |
| Height                              | mm | 113                      |
| Width                               | mm | 45                       |

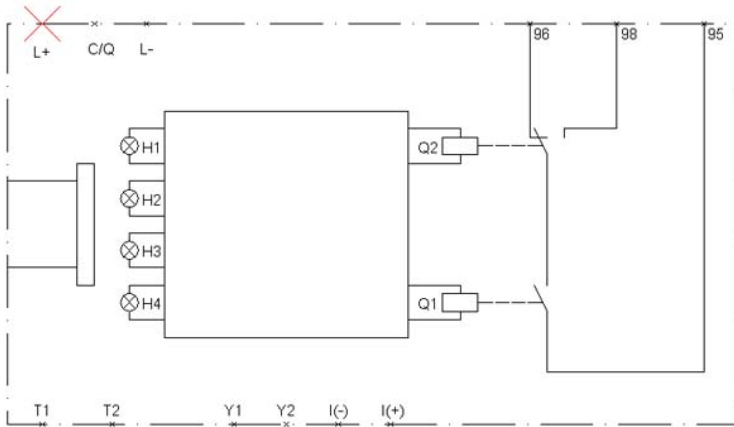
| Connections/ terminals:                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Design of the electrical connection                                                                                                                                                                                                                                                 |  | spring-loaded terminals                                                                                                                                                                                                                                          |
| <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                                                                       |  |                                                                                                                                                                                                                                                                  |
| Type of the connectable conductor cross-section                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>• solid or multi-stranded</li> <li>• finely stranded</li> <li>• without conductor final cutting</li> <li>• with conductor end processing</li> <li>• for AWG conductors / for auxiliary contacts</li> </ul> |  | 1x (0,25 ... 1,5 mm <sup>2</sup> ), 2x (0,25 ... 1,5 mm <sup>2</sup> )<br><br>1x (0.25 ... 1.5 mm <sup>2</sup> ), 2x (0.25 ... 1.5 mm <sup>2</sup> )<br>1x (0.25 ... 1.5 mm <sup>2</sup> ), 2x (0.25 ... 1.5 mm <sup>2</sup> )<br>1x (24 ... 16), 2x (24 ... 16) |

| UL/CSA ratings:                                                       |  |             |
|-----------------------------------------------------------------------|--|-------------|
| Contact rating designation / for auxiliary contacts / according to UL |  | B300 / R300 |

| Certificates/ approvals:                                                                                                                                                                                                                                                                                                                        |                                             |                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------|
| General Product Approval                                                                                                                                                                                                                                                                                                                        | For use in hazardous locations              | Test Certificates                        |
|     |                                             | <a href="#">Special Test Certificate</a> |
| other                                                                                                                                                                                                                                                                                                                                           |                                             |                                          |
| <a href="#">Declaration of Conformity</a>                                                                                                                                                                                                                                                                                                       | <a href="#">Environmental Confirmations</a> |                                          |

| Further information:                                                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="http://www.siemens.com/industrial-controls/catalogs">http://www.siemens.com/industrial-controls/catalogs</a>                                          |
| <b>Industry Mall (Online ordering system)</b><br><a href="http://www.siemens.com/industrymall">http://www.siemens.com/industrymall</a>                                                                                             |
| <b>Cax online generator</b><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                                                                                                                 |
| <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="http://support.automation.siemens.com/WW/view/en/3RB2483-4AC1/all">http://support.automation.siemens.com/WW/view/en/3RB2483-4AC1/all</a> |





last change:

Aug 4, 2014