



OVERLOAD RELAY 1...4 A FOR MOTOR PROTECTION  
 SIZE S00,  
 CLASS 5...30 CONTACTOR ASS. MAIN CIRCUIT: SCREW  
 CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-  
 RESET INT. GROUND FAULT DETECTION

### General technical data:

|                                                                                                                                          |     |                                           |
|------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------------|
| product brand name                                                                                                                       |     | SIRIUS                                    |
| Product designation                                                                                                                      |     | solid-state overload relay                |
| Size of overload relay                                                                                                                   |     | S00                                       |
| Number of poles / for main current circuit                                                                                               |     | 3                                         |
| Product function / removable terminal for auxiliary and control circuit                                                                  |     | Yes                                       |
| Impulse voltage resistance / rated value                                                                                                 | kV  | 6                                         |
| 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                                     |
| Ambient temperature <ul style="list-style-type: none"> <li>during transport</li> <li>during storage</li> <li>during operating</li> </ul> | °C  | -40 ... +80<br>-40 ... +80<br>-25 ... +60 |
| Relative humidity <ul style="list-style-type: none"> <li>during operating phase</li> </ul>                                               | / % | 95                                        |
| EMC immunity to interference <ul style="list-style-type: none"> <li>according to IEC 60947-1</li> </ul>                                  |     | corresponds to degree of severity 3       |
| EMC emitted interference                                                                                                                 |     |                                           |

|                                                                     |   |                                                                             |
|---------------------------------------------------------------------|---|-----------------------------------------------------------------------------|
| • according to IEC 60947-1                                          |   | CISPR 11, environment B (residential area)                                  |
| <b>Electrostatic discharge</b>                                      |   |                                                                             |
| • according to IEC 61000-4-2                                        |   | 6 kV contact discharge / 8 kV air discharge                                 |
| <b>Field-bound parasitic coupling</b>                               |   |                                                                             |
| • according to IEC 61000-4-3                                        |   | 10 V/m                                                                      |
| <b>Conductor-bound parasitic coupling BURST</b>                     |   |                                                                             |
| • according to IEC 61000-4-4                                        |   | 2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3 |
| <b>Conductor-bound parasitic coupling conductor-earth SURGE</b>     |   |                                                                             |
| • according to IEC 61000-4-5                                        |   | 2 kV (line to earth) corresponds to degree of severity 3                    |
| <b>Conductor-bound parasitic coupling conductor-conductor SURGE</b> |   |                                                                             |
| • according to IEC 61000-4-5                                        |   | 1 kV (line to line) corresponds to degree of severity 3                     |
| <b>Type of protection</b>                                           |   | PTB 09 ATEX 3001 Ex II (2) G [Ex e] [Ex d] [Ex px] D [Ex t] [Ex p]          |
| <b>Active power loss / total / typical</b>                          | W | 0.1                                                                         |
| <b>Size of the contactor / can be combined / company-specific</b>   |   | S00                                                                         |

#### Main circuit:

|                                                             |   |   |
|-------------------------------------------------------------|---|---|
| <b>Operating current / at AC-3 / at 400 V / rated value</b> | A | 4 |
| <b>Type of assignment</b>                                   |   | 2 |

#### Control circuit:

|                                                               |  |    |
|---------------------------------------------------------------|--|----|
| <b>Type of voltage supply / via input/ output link master</b> |  | No |
|---------------------------------------------------------------|--|----|

#### Auxiliary circuit:

|                                                                                                  |   |                 |
|--------------------------------------------------------------------------------------------------|---|-----------------|
| <b>Number of NC contacts / for auxiliary contacts</b>                                            |   | 1               |
| <b>Number of NO contacts / for auxiliary contacts</b>                                            |   | 1               |
| <b>Number of changeover contacts / for auxiliary contacts</b>                                    |   | 0               |
| <b>Design of the fuse link / for short-circuit protection of the auxiliary switch / required</b> |   | fuse gL/gG: 6 A |
| <b>Operating current / of the auxiliary contacts</b>                                             |   |                 |
| • at AC-15                                                                                       |   |                 |
| • at 24 V                                                                                        | A | 4               |
| • at 110 V                                                                                       | A | 4               |
| • at 120 V                                                                                       | A | 4               |
| • at 125 V                                                                                       | A | 4               |
| • at 230 V                                                                                       | A | 3               |
| • at DC-13                                                                                       |   |                 |
| • at 24 V                                                                                        | A | 2               |
| • at 60 V                                                                                        | A | 0.55            |
| • at 110 V                                                                                       | A | 0.3             |

- at 125 V
- at 220 V

|   |      |
|---|------|
| A | 0.3  |
| A | 0.11 |

#### Protection function:

|                                                                                               |   |                                   |
|-----------------------------------------------------------------------------------------------|---|-----------------------------------|
| <b>Trip class</b>                                                                             |   | CLASS 5, 10, 20 and 30 adjustable |
| <b>Adjustable response current</b>                                                            |   |                                   |
| <ul style="list-style-type: none"> <li>• of the current-dependent overload release</li> </ul> | A | 1 ... 4                           |

#### Installation/mounting/dimensions:

|                          |    |                 |
|--------------------------|----|-----------------|
| <b>Mounting type</b>     |    | direct mounting |
| <b>mounting position</b> |    | any             |
| <b>Depth</b>             | mm | 73              |
| <b>Height</b>            | mm | 79              |
| <b>Width</b>             | mm | 45              |

#### Connections:

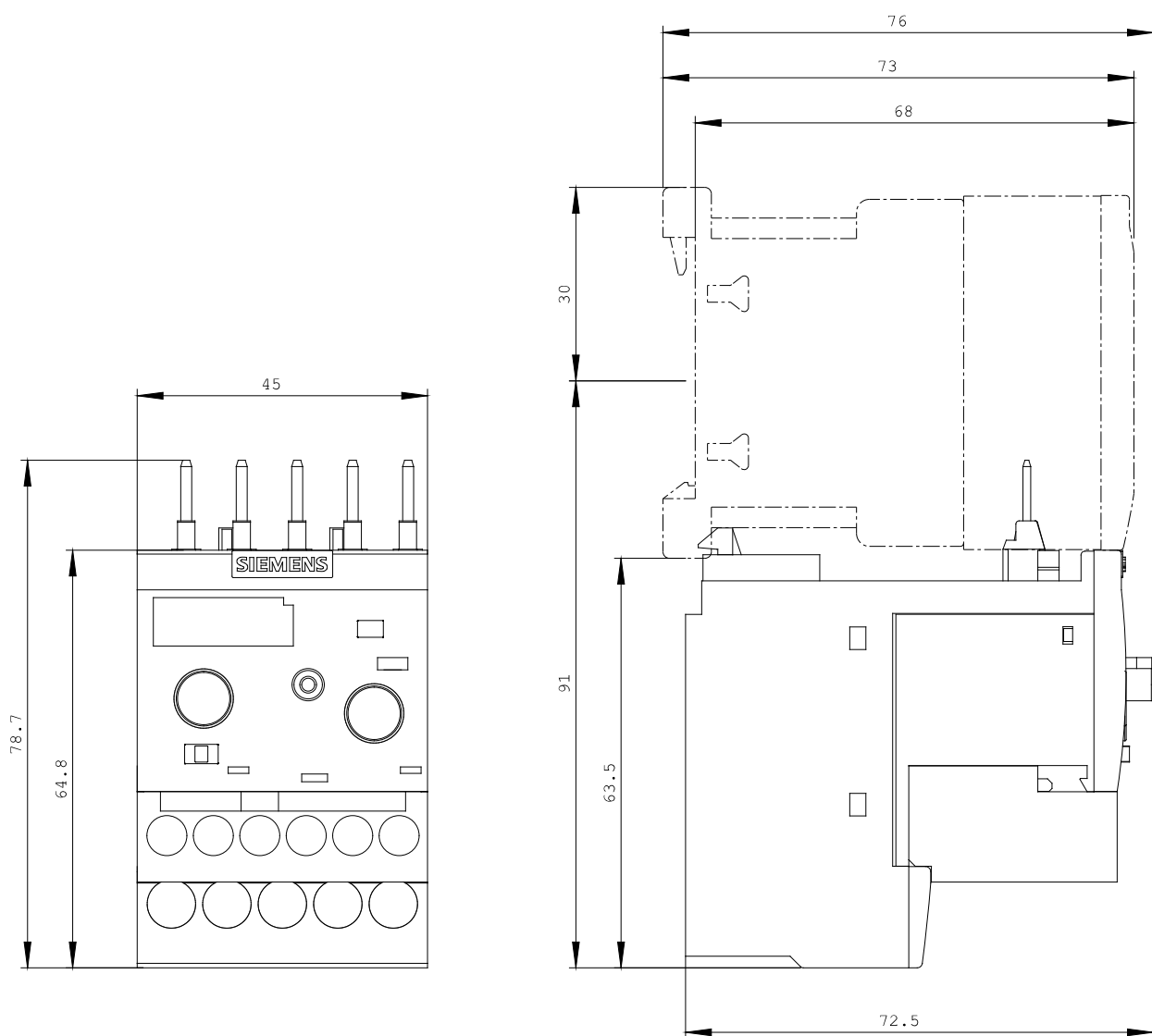
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Design of the electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  | screw-type terminals<br>screw-type terminals                                                                                                                                           |
| <b>Type of the connectable conductor cross-section</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• for main contacts               <ul style="list-style-type: none"> <li>• finely stranded                   <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for main contacts</li> <li>• for auxiliary contacts               <ul style="list-style-type: none"> <li>• finely stranded                   <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul> |  | 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 2.5 mm²)<br>1x (20 ... 12), 2x (20 ... 12)<br><br>1x (0.5 ... 1.5 mm²), 2x (0.5 ... 1.5 mm²), 1x (0.5 ... 2.5 mm²)<br>1x (20 ... 14), 2x (20 ... 14) |

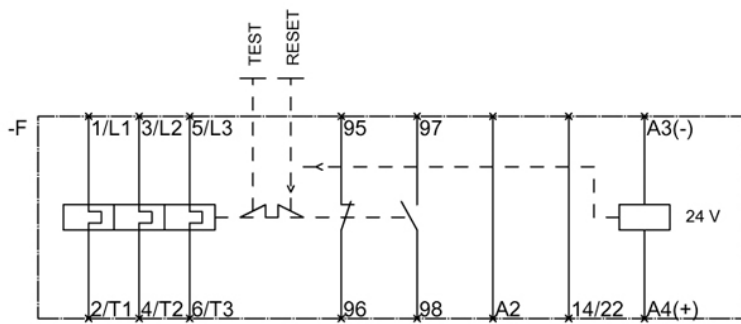
#### UL/CSA ratings:

|                                                                              |  |             |
|------------------------------------------------------------------------------|--|-------------|
| <b>Contact rating designation / for auxiliary contacts / according to UL</b> |  | B300 / R300 |
|------------------------------------------------------------------------------|--|-------------|

#### Certificates/approvals:

|                                                                                                                                                                                                                                                                |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| General Product Approval                                                                                                                                                                                                                                       |                                                                                          |                                                                                          | EMC                                                                                                 | For use in hazardous locations                                                                |                                                                                             |
| <br>CCC                                                                                                                                                                       | <br>CSA |         | <br>UL             | <br>C-TICK | <br>ATEX |
| Test Certificates                                                                                                                                                                                                                                              |                                                                                          | Shipping Approval                                                                        |                                                                                                     |                                                                                               |                                                                                             |
| <a href="#">Special Test Certificate</a>                                                                                                                                                                                                                       | <a href="#">Type Test Certificates/Test Report</a>                                       | <br>ABS | <br>BUREAU VERITAS | <br>GL     | <br>LRS  |
| other                                                                                                                                                                                                                                                          |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
| <a href="#">Declaration of Conformity</a>                                                                                                                                                                                                                      | <a href="#">Environmental Confirmations</a>                                              |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
| Further information:                                                                                                                                                                                                                                           |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
| Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="http://www.siemens.com/industrial-controls/catalogs">http://www.siemens.com/industrial-controls/catalogs</a>                                                                             |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
| Industry Mall (Online ordering system)<br><a href="http://www.siemens.com/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</a>                                                                                                        |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
| Cax online generator:<br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                                                                                                                                                   |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)<br><a href="http://support.automation.siemens.com/WW/view/en/3RB3113-4PB0/all">http://support.automation.siemens.com/WW/view/en/3RB3113-4PB0/all</a>                                        |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)<br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3113-4PB0">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RB3113-4PB0</a> |                                                                                          |                                                                                          |                                                                                                     |                                                                                               |                                                                                             |





last change:

Jun 30, 2014