



OVERLOAD RELAY 0.90...1.25 A FOR MOTOR PROTECTION SZ S00, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET

| General technical data:   |     |                             |
|---|-----|-----------------------------|
| product brand name  |     | SIRIUS                      |
| Product designation   |     | 3RU2 thermal overload relay |
| Size of overload relay  |     | S00                         |
| Number of poles / for main current circuit                              |     | 3                           |
| Product function / removable terminal for auxiliary and control circuit |     | No                          |
| 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   |     |                             |
| • during transport  | °C  | -55 ... +80                 |
| • during storage  | °C  | -55 ... +80                 |
| • during operating  | °C  | -40 ... +70                 |
| Relative humidity   |     |                             |
| • during operating phase  | / % | 90                          |
| Active power loss / total / typical                                     | W   | 4.8                         |
| Size of the contactor / can be combined / company-specific              |     | S00                         |

Main circuit:

|  |   |      |
|--|---|------|
| Operating current / at AC-3 / at 400 V / rated value | A | 1.25 |
| Type of assignment                                   |   | 2    |

#### Auxiliary circuit:

|  |   |      |
|--|---|------|
| Number of NC contacts / for auxiliary contacts           |   | 1    |
| Number of NO contacts / for auxiliary contacts           |   | 1    |
| Number of changeover contacts / for auxiliary contacts   |   | 0    |
| Operating current / of the auxiliary contacts / at AC-15 |   |      |
| • at 24 V  | A | 3    |
| • at 110 V   | A | 3    |
| • at 120 V   | A | 3    |
| • at 125 V   | A | 3    |
| • at 230 V   | A | 2    |
| • at 400 V   | A | 1    |
| Operating current / of the auxiliary contacts / at DC-13 |   |      |
| • at 24 V  | A | 2    |
| • at 110 V   | A | 0.22 |
| • at 125 V   | A | 0.22 |
| • at 220 V   | A | 0.11 |

#### Protection function:

|   |   |              |
|---|---|--------------|
| Trip class                                  |   | CLASS 10     |
| Adjustable response current                 |   |              |
| • of the current-dependent overload release | A | 0.9 ... 1.25 |

#### Safety:

|   |     |       |
|---|-----|-------|
| Proportion of dangerous failures  |     |       |
| • with high demand rate / according to SN 31920                             | %   | 50    |
| • with low demand rate / according to SN 31920                              | %   | 50    |
| MTTF / with high demand rate  | a   | 2,280 |
| Failure rate [FIT] / with low demand rate / according to SN 31920           | FIT | 50    |
| T1 value / for proof test interval or service life / according to IEC 61508 | a   | 20    |

#### Installation/mounting/dimensions:

|                   |    |                 |
|-------------------|----|-----------------|
| Mounting type     |    | direct mounting |
| mounting position |    | vertical        |
| Depth             | mm | 70              |
| Height            | mm | 76              |
| Width             | 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 AWG conductors / for auxiliary contacts</li> </ul>                                   |  | 2x (20 ... 16), 2x (18 ... 14)               |

|  |  |             |
|--|--|-------------|
| <b>UL/CSA ratings:</b>   |  |             |
| <b>Contact rating designation / for auxiliary contacts / according to UL</b> |  | B600 / R300 |

|                                 |                                       |                                  |
|---------------------------------|---------------------------------------|----------------------------------|
| <b>Certificates/approvals:</b>  |                                       |                                  |
| <b>General Product Approval</b> | <b>For use in hazardous locations</b> | <b>Declaration of Conformity</b> |

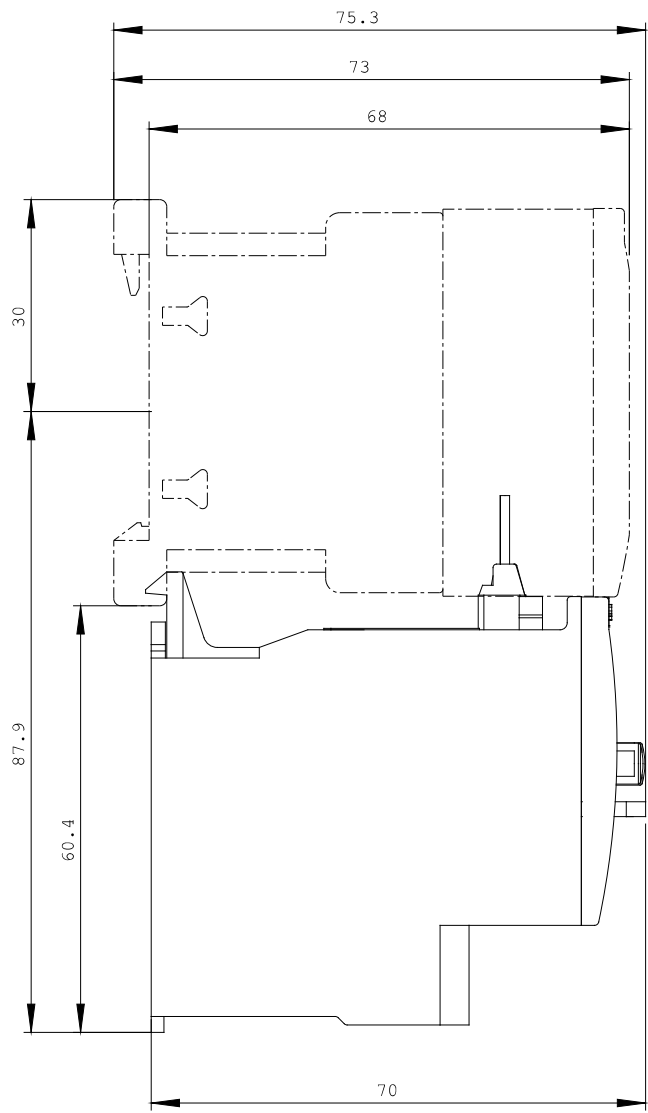
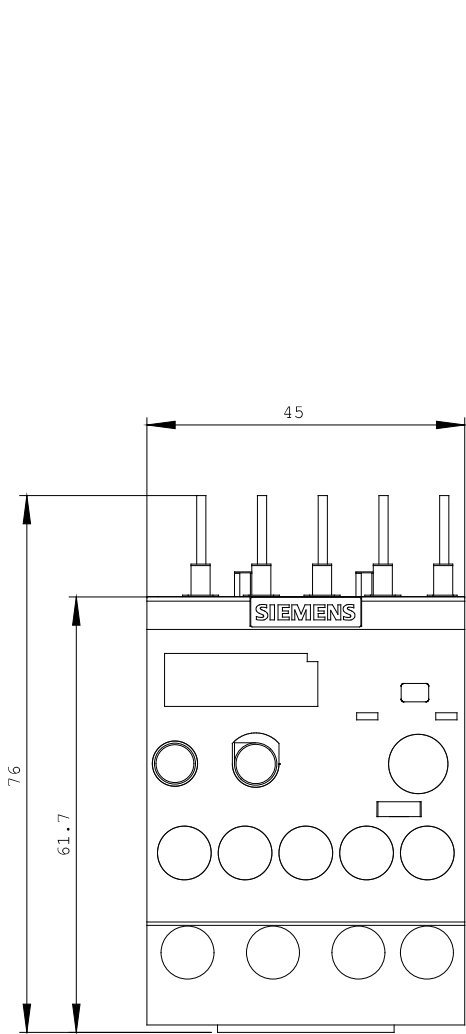


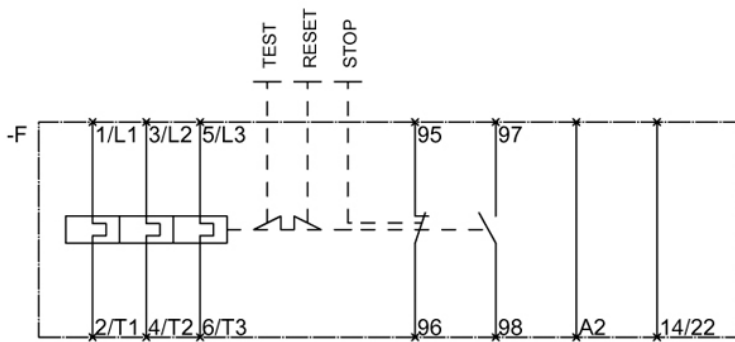
|  |  |
|--|--|
| <b>Test Certificates</b>                 |  |
| <a href="#">Special Test Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> |

|                          |                        |     |    |     |     |
|--------------------------|------------------------|-----|----|-----|-----|
| <b>Shipping Approval</b> |                        |     |    |     |     |
|                          |                        |     |    |     |     |
| ABS                      | BUREAU VERITAS<br>1828 | DNV | GL | LRS | PRS |

|                          |   |
|--------------------------|---|
| <b>Shipping Approval</b> | <b>other</b>                                |
|                          |   |
| RINA                     | RMRS  |
|                          | <a href="#">Environmental Confirmations</a> |

|   |
|---|
| <b>Further information:</b>   |
| <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/industrial-controls/mall">http://www.siemens.com/industrial-controls/mall</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/3RU2116-0KB0/all">http://support.automation.siemens.com/WW/view/en/3RU2116-0KB0/all</a>                                    |
| <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-0KB0">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU2116-0KB0</a> |





last change:

May 19, 2014