



OVERLOAD RELAY 5.5...8.0 A FOR MOTOR PROTECTION SZ S0, CLASS 10, F. MOUNTING ONTO CONTACTOR MAIN CIRCUIT: SPRING TERMINAL AUX. CIRCUIT: SPRING TERMINAL MANUAL-AUTOMATIC-RESET

|   |                             |
|---|-----------------------------|
| product brand name  | SIRIUS                      |
| Product designation   | 3RU2 thermal overload relay |
| <b>General technical data:</b>  |                             |
| Size of contactor can be combined company-specific                          | S0                          |
| Active power loss total typical   | 6 W                         |
| Insulation voltage  |                             |
| • with degree of pollution 3 Rated value                                    | 690 V                       |
| Surge voltage resistance Rated value  | 6 kV                        |
| Protection class IP   |                             |
| • on the front  | IP20                        |
| • of the terminal   | IP20                        |
| Temperature compensation  | -40 ... +60 °C              |
| Type of assignment  | 2                           |
| <b>Ambient conditions:</b>  |                             |
| Installation altitude at height above sea level maximum                     | 2 000 m                     |
| Ambient temperature   |                             |
| • during operation  | -40 ... +70 °C              |
| • during storage  | -55 ... +80 °C              |
| • during transport  | -55 ... +80 °C              |
| Relative humidity during operation  | 0 ... 90 %                  |
| <b>Main circuit:</b>  |                             |
| Adjustable response value current of the current-dependent overload release | 5.5 ... 8 A                 |
| Operating voltage   |                             |

|   |              |
|---|--------------|
| <ul style="list-style-type: none"> <li>• Rated value</li> </ul>                             | 690 V        |
| <ul style="list-style-type: none"> <li>• at AC-3 Rated value maximum</li> </ul>             | 690 V        |
| <b>Operating frequency Rated value</b>  | 50 ... 60 Hz |
| <b>Operating current Rated value</b>  | 8 A          |
| <b>Operating current</b>  |              |
| <ul style="list-style-type: none"> <li>• at AC-3</li> <li>— at 400 V Rated value</li> </ul> | 8 A          |

#### Auxiliary circuit:

|   |  |
|---|--|
| <b>Number of NC contacts</b>  |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— Note</li> </ul>  | 1<br>for contactor disconnection       |
| <b>Number of NO contacts</b>  |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— Note</li> </ul>  | 1<br>for message "Tripped"             |
| <b>Number of CO contacts</b>  |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>  | 0                                      |
| <b>Design of the auxiliary switch</b>   | integrated                             |
| <b>Operating current of the auxiliary contacts at AC-15</b>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 110 V</li> <li>• at 120 V</li> <li>• at 125 V</li> <li>• at 230 V</li> <li>• at 400 V</li> </ul> | 3 A<br>3 A<br>3 A<br>3 A<br>2 A<br>1 A |
| <b>Operating current of the auxiliary contacts at DC-13</b>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V</li> <li>• at 110 V</li> <li>• at 125 V</li> <li>• at 220 V</li> </ul>   | 2 A<br>0.22 A<br>0.22 A<br>0.11 A      |

#### Protective and monitoring functions:

|   |          |
|---|----------|
| <b>Trip class</b>                             | CLASS 10 |
| <b>Design of the overload circuit breaker</b> | thermal  |

#### UL/CSA ratings:

|  |             |
|--|-------------|
| <b>Full-load current (FLA) for three-phase AC motor</b>  |             |
| <ul style="list-style-type: none"> <li>• at 480 V Rated value</li> <li>• at 600 V Rated value</li> </ul> | 8 A<br>8 A  |
| <b>Contact rating of the auxiliary contacts acc. to UL</b>   | B600 / R300 |

#### Installation/ mounting/ dimensions:

|                          |                 |
|--------------------------|-----------------|
| <b>mounting position</b> | any             |
| <b>Mounting type</b>     | direct mounting |

|   |        |
|---|--------|
| <b>Height</b>   | 102 mm |
| <b>Width</b>  | 45 mm  |
| <b>Depth</b>  | 84 mm  |
| <b>Required spacing</b>   |        |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 6 mm</li> <li>— downwards 6 mm</li> <li>— at the side 6 mm</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 6 mm</li> <li>— at the side 6 mm</li> <li>— downwards 6 mm</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards 0 mm</li> <li>— Backwards 0 mm</li> <li>— upwards 6 mm</li> <li>— downwards 6 mm</li> <li>— at the side 6 mm</li> </ul> </li> </ul> |        |

| Connections/ Terminals:   |  |
|---|--|
| <b>Product function</b>   |  |
| <ul style="list-style-type: none"> <li>• removable terminal for auxiliary and control circuit</li> </ul>  | No   |
| <b>Type of electrical connection</b>  |  |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>   | spring-loaded terminals<br>spring-loaded terminals |
| <b>Arrangement of electrical connectors for main current circuit</b>  | Top and bottom                                     |
| <b>Type of connectable conductor cross-section</b>  |  |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— single or multi-stranded 1x (1 ... 10 mm<sup>2</sup>)</li> <li>— finely stranded with core end processing 1x (1 ... 6 mm<sup>2</sup>)</li> <li>— finely stranded without core end processing 1x (1 ... 6 mm<sup>2</sup>)</li> </ul> </li> <li>• for AWG conductors for main contacts 1x (18 ... 8)</li> </ul> |  |
| <b>Type of connectable conductor cross-section</b>  |  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded 2x (0,5 ... 2,5 mm<sup>2</sup>)</li> <li>— finely stranded with core end processing 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</li> </ul> </li> </ul>  |  |

|   |                                   |
|---|-----------------------------------|
| — finely stranded without core end processing | 2x (0.5 ... 1.5 mm <sup>2</sup> ) |
| • for AWG conductors for auxiliary contacts   | 2x (20 ... 14)                    |
| <b>Design of screwdriver shaft</b>            | 5 to 6 mm diameter                |

#### Safety related data:

|   |         |
|---|---------|
| <b>Proportion of dangerous failures</b>                                   |         |
| • with low demand rate acc. to SN 31920                                   | 50 %    |
| • with high demand rate acc. to SN 31920                                  | 50 %    |
| <b>MTTF with high demand rate</b>   | 2 280 y |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b> | 20 y    |







#### Mechanical data:





|                               |    |
|-------------------------------|----|
| <b>Size of overload relay</b> | S0 |
|-------------------------------|----|





#### Display:

|                        |              |
|------------------------|--------------|
| <b>Display version</b> |              |
| • for switching status | Slide switch |

#### Certificates/ approvals:

| General Product Approval   | For use in hazardous locations  | Declaration of Conformity   |
|--|---|---|
| <br>CCC | <br>UL     | <br>EG-Konf. |
| <br>CSA | <br>ATEX |   |
| <br>EAC |   |   |

| Test Certificates   | Shipping Approval   |
|---|---|
| <a href="#">Typprüfbescheinigung/Werkszeugnis</a><br><a href="#">spezielle Prüfbescheinigung</a><br><a href="#">n</a> | <br>ABS <br>BUREAU VERITAS <br>DNV <br>GL |

| Shipping Approval   | other                             |
|---|-----------------------------------|
| <br>LRS <br>PRS <br>RINA <br>RMRS | <a href="#">Umweltbestätigung</a> |

#### Further information

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

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

**Industry Mall (Online ordering system)**

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

**Cax online generator**

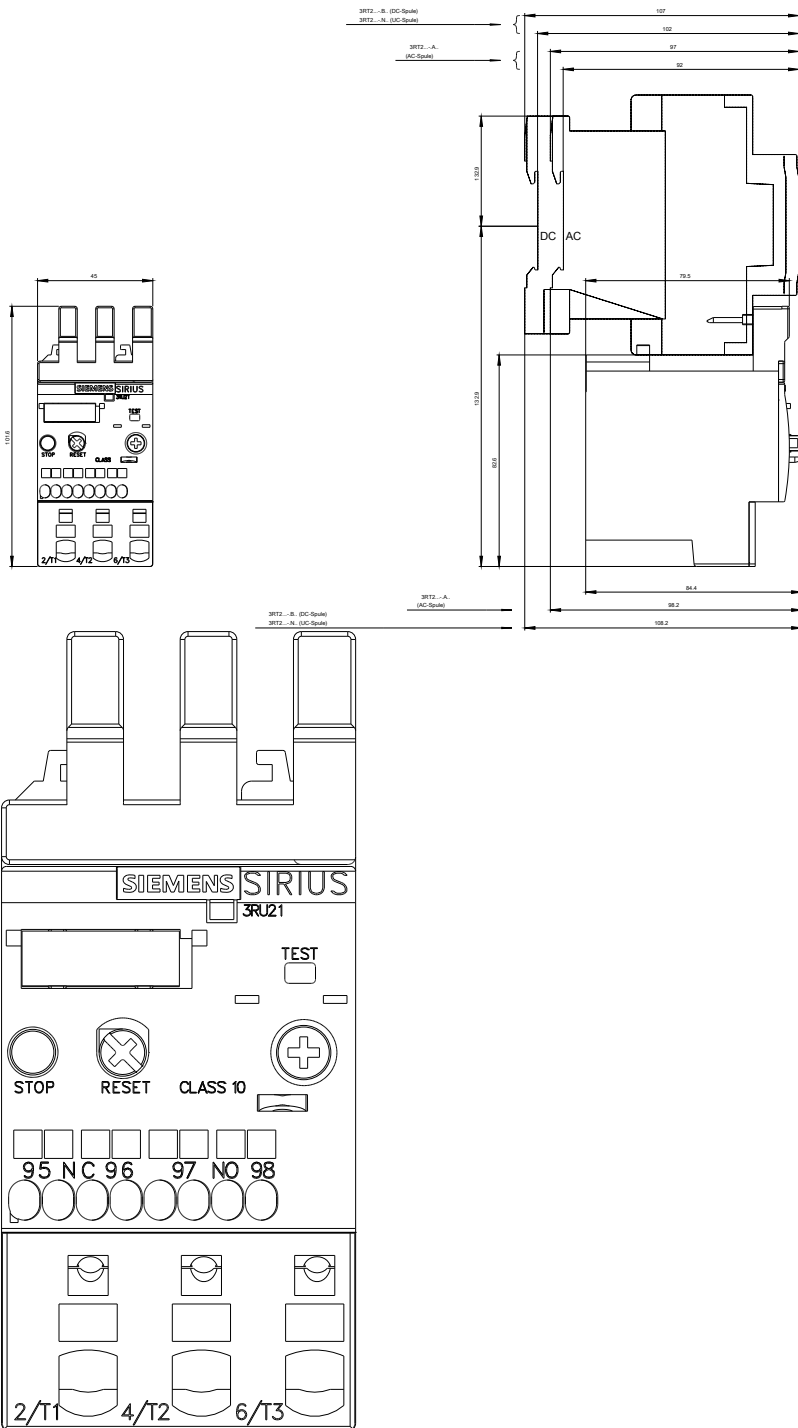
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RU21261HC0>

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

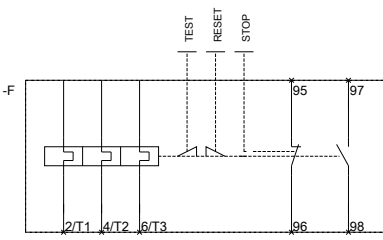
<https://support.industry.siemens.com/cs/ww/en/ps/3RU21261HC0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RU21261HC0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RU21261HC0&lang=en)



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last modified:

29.06.2015

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