



OVERLOAD RELAY, 7...10 A, 1NO+1NC,  
 SIZE S0, CLASS 10,  
 FOR CONTACTOR MOUNTING

**General technical details:**

|   |    |                        |
|---|----|------------------------|
| <b>Product brand name</b>   |    | SIRIUS                 |
| <b>Product designation</b>  |    | thermal overload relay |
| <b>Protection class IP / frontal/front side</b>                             |    | IP20                   |
| <b>Insulation voltage / with degree of pollution 3 / rated value</b>        | V  | 690                    |
| <b>Altitude of installation site / at a height over sea level / maximum</b> | m  | 2,000                  |
| <b>Ambient temperature</b>  |    |                        |
| • during the operating phase  | °C | -20 ... 70             |
| • during storage  | °C | -55 ... 80             |
| • during transport  | °C | -55 ... 80             |
| <b>Relative humidity / during the operating phase / maximum</b>             | %  | 100                    |
| <b>Resistance against shock</b>   |    | 8g / 10 ms             |
| <b>Impulse voltage resistance / rated value</b>                             | kV | 6                      |
| <b>Real loss power / total / typical</b>                                    | W  | 6                      |
| <b>Item designation</b>   |    |                        |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750  |    | F                      |
| • according to DIN EN 61346-2   |    | F                      |
| <b>Operating current / of the fuse link / rated value</b>                   | A  | 35                     |
| <b>Trip class</b>   |    | CLASS 10               |

|  |  |                   |
|--|--|-------------------|
| Type of assignment   |  | 2                 |
| Type of protection   |  | DMT 98 ATEX G 001 |
| Size of overload relay                                     |  | S0                |
| Size of the contactor / can be combined / company-specific |  | S0                |
| Protection against electrical shock                        |  | finger-safe       |

#### Main circuit:

|   |    |          |
|---|----|----------|
| Number of poles / for main current circuit  |    | 3        |
| Operating voltage / at 3 AC / rated value   |    |          |
| • maximum                                   | V  | 690      |
| Service power / at AC-3                     |    |          |
| • at 400 V                                  | kW | 4        |
| Adjustable response current                 |    |          |
| • of the current-dependent overload release | A  | 7 ... 10 |

#### Auxiliary circuit:

|  |   |  |
|--|---|--|
| Contact reliability / of the auxiliary contacts          |   | acceptability for PLC control (17 V, 5 mA) |
| Number of NC contacts                                    |   | 1  |
| Number of NO contacts                                    |   | 1  |
| Number of change-over switches                           |   | 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 | 1  |
| • at 110 V   | A | 0.22                                       |
| • at 125 V   | A | 0.22                                       |
| • at 220 V   | A | 0.11                                       |

#### Short-circuit:

|   |  |                              |
|---|--|------------------------------|
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required |  | fuse gL/gG: 6 A, quick: 10 A |
|---|--|------------------------------|

#### Installation/mounting/dimensions:

|                         |  |   |
|-------------------------|--|---|
| built in orientation    |  | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| Type of fixing/fixation |  | direct mounting   |

|  |    |    |
|--|----|----|
| <b>Height</b>  | mm | 97 |
| <b>Width</b>   | mm | 45 |
| <b>Depth</b>   | mm | 96 |
| <b>distance, to be maintained, to the ranks assembly</b> |    |    |
| • upwards  | mm | 0  |
| • downwards  | mm | 0  |
| • forwards   | mm | 0  |
| • backwards  | mm | 0  |
| • sideways   | mm | 0  |
| <b>distance, to be maintained, to earthed part</b>       |    |    |
| • upwards  | mm | 0  |
| • downwards  | mm | 0  |
| • forwards   | mm | 0  |
| • backwards  | mm | 0  |
| • sideways   | mm | 6  |
| <b>distance, to be maintained, conductive elements</b>   |    |    |
| • upwards  | mm | 0  |
| • downwards  | mm | 0  |
| • forwards   | mm | 0  |
| • backwards  | mm | 0  |
| • sideways   | mm | 6  |

#### Connection type:

|  |  |  |
|--|--|--|
| <b>Product function</b>                                |  |  |
| • removable terminal for auxiliary and control circuit |  | No   |
| <b>design of the electrical connection</b>             |  |  |
| • for main current circuit                             |  | screw-type terminals   |
| • for auxiliary and control current circuit            |  | screw-type terminals   |
| <b>Type of the connectable conductor cross-section</b> |  |  |
| • for main contacts                                    |  |  |
| • unifilar   |  | 2 x (1 ... 2.5 mm <sup>2</sup> ), 2 x (2.5 ... 6 mm <sup>2</sup> ), max. 2 x (2.5 ... 10 mm <sup>2</sup> ) |
| • stranded wire  |  | 2 x (1 ... 2.5 mm <sup>2</sup> ), 2 x (2.5 ... 6 mm <sup>2</sup> ), max. 2 x (2.5 ... 10 mm <sup>2</sup> ) |
| • stranded wire  |  |  |
| • with conductor end processing                        |  | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> )   |
| • for auxiliary contacts                               |  |  |
| • solid  |  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                      |
| • finely stranded                                      |  |  |
| • with wire end processing                             |  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                      |
| • without conductor final cutting                      |  | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )                                      |

|  |                 |                |
|--|-----------------|----------------|
| <ul style="list-style-type: none"> <li>• at AWG-conductors</li> <li>• for main contacts</li> <li>• for auxiliary contacts</li> </ul>   |                 | 2x (14 ... 10) |
|  |                 | 2x (18 ... 14) |
| <b>Conductor cross section that can be connected</b>   |                 |                |
| <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• unifilar</li> <li>• stranded wire</li> <li>• stranded wire <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul>                       | mm <sup>2</sup> | 1 ... 10       |
|  | mm <sup>2</sup> | 1 ... 10       |
| <ul style="list-style-type: none"> <li>• for auxiliary contact</li> <li>• unifilar</li> <li>• stranded wire <ul style="list-style-type: none"> <li>• with conductor end processing</li> <li>• without conductor final cutting</li> </ul> </li> </ul> | mm <sup>2</sup> | 1 ... 6        |
|  | mm <sup>2</sup> | 0.5 ... 2.5    |
|  | mm <sup>2</sup> | 0.5 ... 2.5    |
|  | mm <sup>2</sup> | 0.5 ... 2.5    |
| <b>AWG number / as coded connectable conductor cross-section</b>   |                 |                |
| <ul style="list-style-type: none"> <li>• for main contacts / minimum</li> <li>• for auxiliary contact</li> </ul>   |                 | 14             |
|  |                 | 18 ... 14      |

#### Certificates/approvals:

|                                    |  |   |
|------------------------------------|--|---|
| verification of suitability        |  | CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS |
| varification of suitability / ATEX |  | Yes   |

#### Further information:

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

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

##### Global Industry Mall (Online ordering system)

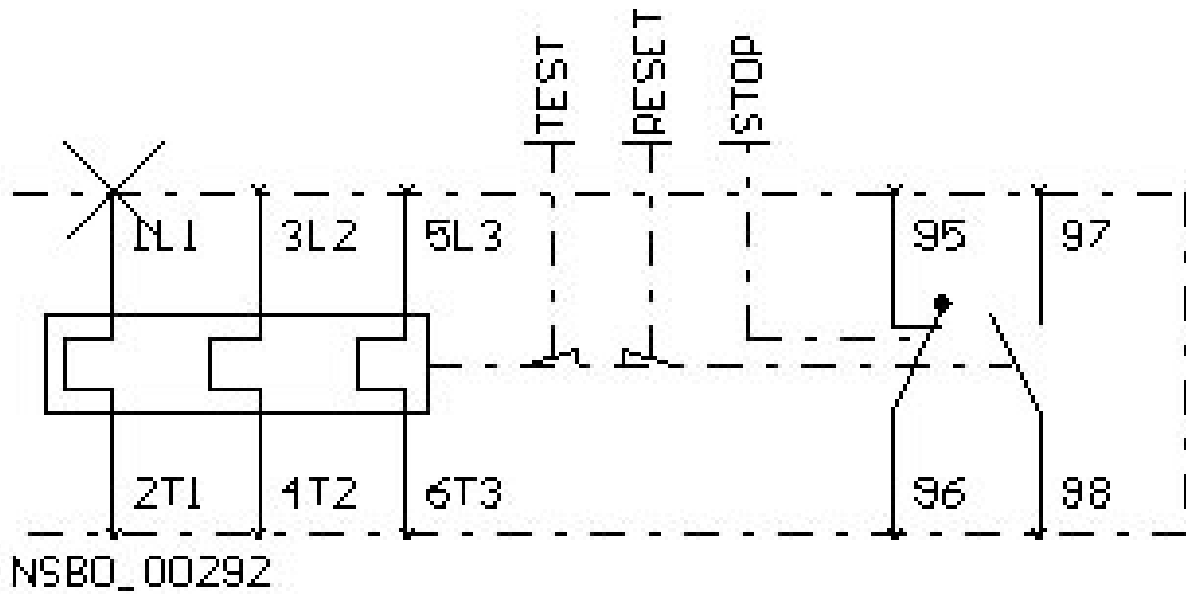
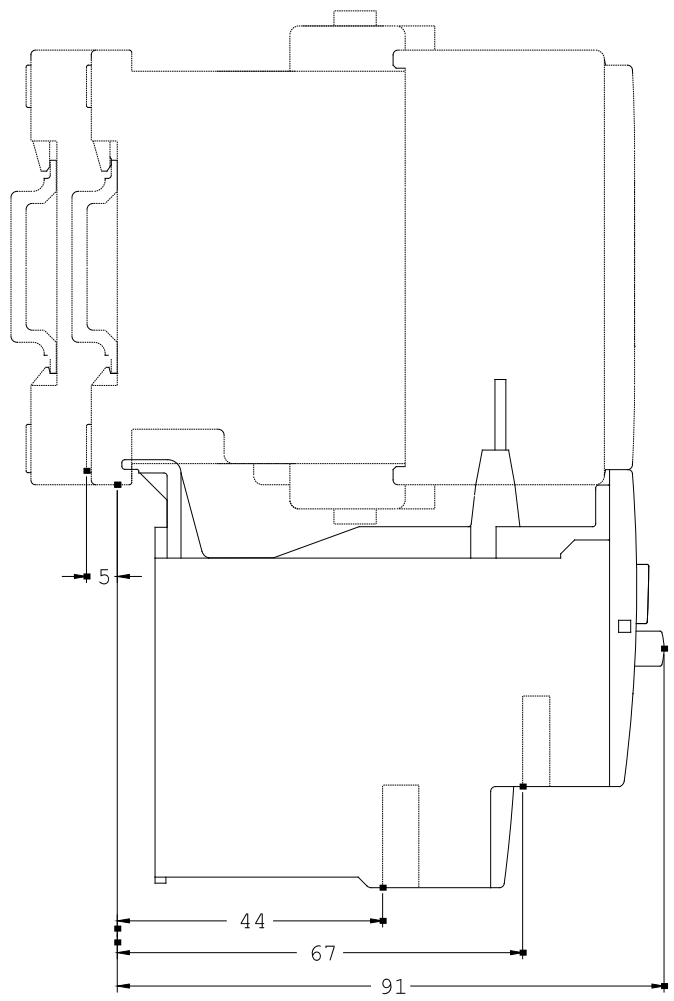
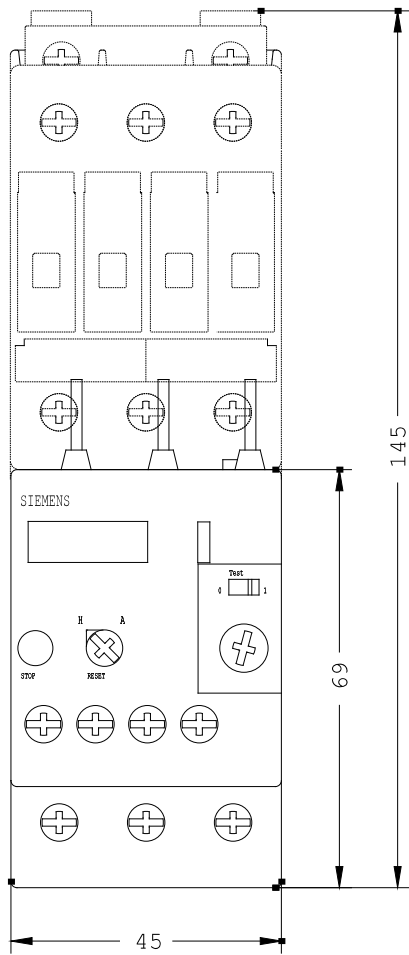
<http://www.siemens.com/industrial-controls/mall>

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

<http://support.automation.siemens.com/WW/view/en/3RU1126-1JB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RU1126-1JB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1126-1JB0)



last change:

Jun 14, 2010