



OVERLOAD RELAY, 5.5...8 A, 1NO+1NC,  
SIZE S00, CLASS 10,  
FOR CONTACTOR MOUNTING

### General technical details:

|                                                                            |    |                        |
|----------------------------------------------------------------------------|----|------------------------|
| product brand name                                                         |    | SIRIUS                 |
| product designation                                                        |    | thermal overload relay |
| Protection class IP / on the front                                         |    | IP20                   |
| Insulation voltage / with degree of pollution 3 / rated value              | V  | 690                    |
| Installation altitude / at a height over sea level / maximum               | m  | 2,000                  |
| Ambient temperature                                                        |    |                        |
| • during operating                                                         | °C | -20 ... +70            |
| • during storage                                                           | °C | -55 ... +80            |
| • during transport                                                         | °C | -55 ... +80            |
| Relative humidity / during operating phase / maximum                       | %  | 100                    |
| Resistance against shock                                                   |    | 8g / 10 ms             |
| Impulse voltage resistance / rated value                                   | kV | 6                      |
| Active power loss / total / typical                                        | W  | 6.6                    |
| Item designation                                                           |    |                        |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 |    | F                      |
| • according to DIN EN 61346-2                                              |    | F                      |
| Operating current / of the fuse link / rated value                         | A  | 25                     |
| Trip class                                                                 |    | CLASS 10               |

|                                                            |  |                   |
|------------------------------------------------------------|--|-------------------|
| Type of assignment                                         |  | 2                 |
| type of protection                                         |  | DMT 98 ATEX G 001 |
| Size of overload relay                                     |  | S00               |
| Size of the contactor / can be combined / company-specific |  | S00               |
| Protection against electrical shock                        |  | finger-safe       |

|                                             |    |           |
|---------------------------------------------|----|-----------|
| <b>Main circuit:</b>                        |    |           |
| Number of poles / for main current circuit  |    | 3         |
| Operating voltage / at AC-3 / rated value   |    |           |
| • maximum                                   | V  | 690       |
| Service power / at AC-3                     |    |           |
| • at 400 V                                  | kW | 3         |
| Adjustable response current                 |    |           |
| • of the current-dependent overload release | A  | 5.5 ... 8 |

|                                                          |   |                                            |
|----------------------------------------------------------|---|--------------------------------------------|
| <b>Auxiliary circuit:</b>                                |   |                                            |
| 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                                       |

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

|                                          |  |                                                                                                                         |
|------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------|
| <b>Installation/mounting/dimensions:</b> |  |                                                                                                                         |
| Built in orientation                     |  | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| Type of mounting                         |  | direct mounting                                                                                                         |

|                                                          |    |    |
|----------------------------------------------------------|----|----|
| <b>Height</b>                                            | mm | 87 |
| <b>Width</b>                                             | mm | 45 |
| <b>Depth</b>                                             | mm | 78 |
| <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                                    |  |                                             |
| • finely stranded                                      |  |                                             |
| • with conductor end processing                        |  | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) |
| • for auxiliary contacts                               |  |                                             |
| • solid                                                |  | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) |
| • finely stranded                                      |  |                                             |
| • with conductor end processing                        |  | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) |
| • for AWG conductors                                   |  |                                             |
| • for main contacts                                    |  | 2x (20 ... 16), 2x (18 ... 14), 2x 12       |
| • for auxiliary contacts                               |  | 2x (20 ... 16), 2x (18 ... 14)              |
| <b>Conductor cross section that can be connected</b>   |  |                                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded wire <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for auxiliary contact <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded wire <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> </ul> | mm <sup>2</sup> | 0.5 ... 4   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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>                                                                                                                                                                                                                                                                                                                                                                                     |                 |             |
| • for main contacts / minimum                                                                                                                                                                                                                                                                                                                                                                                                                        |                 | 20          |
| • for auxiliary contact                                                                                                                                                                                                                                                                                                                                                                                                                              |                 | 20 ... 14   |

#### Certificates/approvals:

##### Verification of suitability

CSA / UL / CC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS

##### Verification of suitability / ATEX

Yes

##### General Product Approval

For use in  
hazardous  
locations

Test Certificates



CQC



CSA

[ROSTEST](#)



UL

[DEKRA EXAM,](#)  
[DMT](#)

[Manufacturer](#)

##### Shipping Approval



ABS



BUREAU  
VERITAS



DNV



GL



LRS



PRS

##### Shipping Approval

other



RINA



RMRS

[Manufacturer](#)

#### Further information:

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

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

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

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

##### CAX-Online-Generator

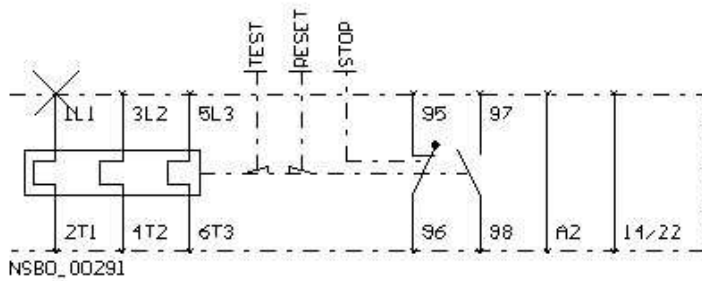
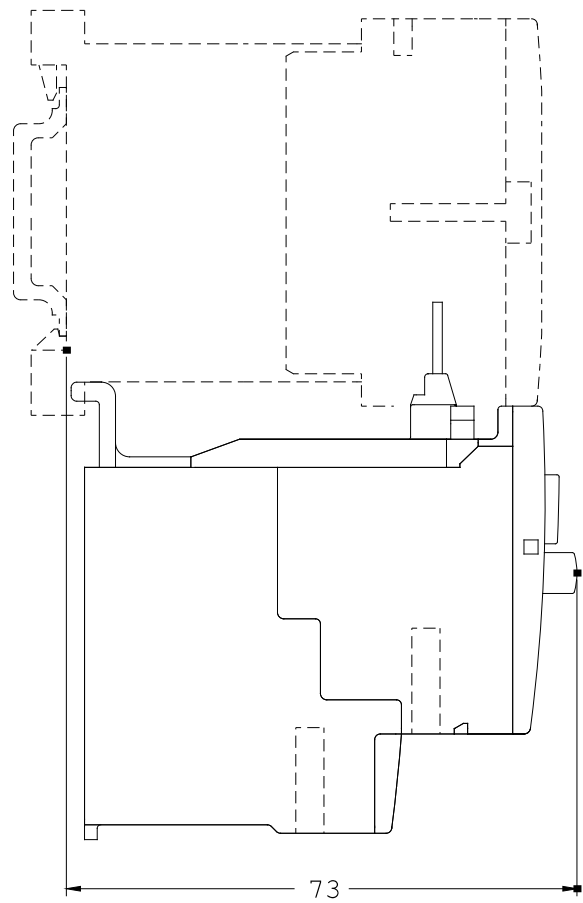
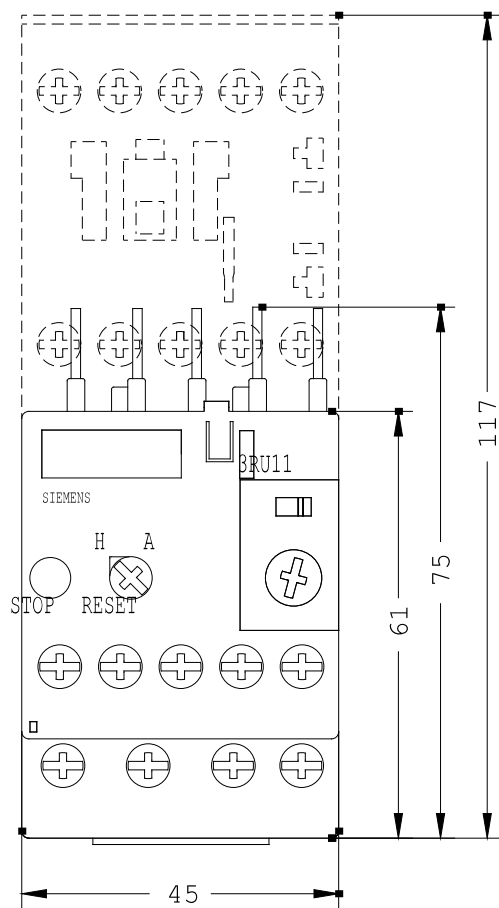
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RU1116-1HB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RU1116-1HB0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RU1116-1HB0)



last change:

Mar 5, 2012