



Figure similar

OVERLOAD RELAY 62...73 A FOR MOTOR PROTECTION SIZE S2, CLASS 10A CONTACTOR MOUNTING MAIN CIRCUIT: SCREW TERM. AUX. CIRCUIT: SCREW TERM. MANUAL/AUTOMATIC RESET

|                                                           |     |                             |
|-----------------------------------------------------------|-----|-----------------------------|
| product brand name                                        |     | SIRIUS                      |
| Product designation                                       |     | 3RU2 thermal overload relay |
| <b>General technical data:</b>                            |     |                             |
| <b>Active power loss total typical</b>                    | W   | 13                          |
| <b>Insulation voltage</b>                                 |     |                             |
| • with degree of pollution 3 Rated value                  | V   | 690                         |
| <b>Shock resistance</b>                                   |     |                             |
| • acc. to IEC 60068-2-27                                  |     | 8g / 11 ms                  |
| <b>Surge voltage resistance Rated value</b>               | kV  | 6                           |
| <b>Temperature compensation</b>                           | °C  | -40 ... +60                 |
| <b>Recovery time</b>                                      |     |                             |
| • after overload trip with automatic reset typical        | min | 10                          |
| • after overload trip with remote-reset                   | min | 10                          |
| • after overload trip with manual reset                   | min | 10                          |
| <b>Size of contactor can be combined company-specific</b> |     | S2                          |
| <b>Type of assignment</b>                                 |     | 2                           |
| <b>Protection class IP</b>                                |     |                             |
| • on the front                                            |     | IP20                        |
| • of the terminal                                         |     | IP00                        |
| <b>Type of protection</b>                                 |     | on request                  |
| <b>Equipment marking</b>                                  |     |                             |
| • acc. to DIN EN 81346-2                                  |     | F                           |
| <b>Main circuit:</b>                                      |     |                             |
| <b>Number of poles for main current circuit</b>           |     | 3                           |

|                                                                                    |    |           |
|------------------------------------------------------------------------------------|----|-----------|
| <b>Adjustable response value current of the current-dependent overload release</b> | A  | 62 ... 73 |
| <b>Operating voltage</b>                                                           |    |           |
| • Rated value                                                                      | V  | 690       |
| • at AC-3 Rated value maximum                                                      | V  | 690       |
| Operating frequency Rated value                                                    | Hz | 50 ... 60 |
| <b>Operating current Rated value</b>                                               | A  | 73        |
| <b>Operating current</b>                                                           |    |           |
| • at AC-3                                                                          |    |           |
| — at 400 V Rated value                                                             | A  | 73        |

#### Auxiliary circuit:

|                                                                 |   |                                                               |
|-----------------------------------------------------------------|---|---------------------------------------------------------------|
| <b>Number of NC contacts</b>                                    |   |                                                               |
| • for auxiliary contacts                                        |   | 1                                                             |
| — Note                                                          |   | for contactor disconnection                                   |
| <b>Number of NO contacts</b>                                    |   |                                                               |
| • for auxiliary contacts                                        |   | 1                                                             |
| — Note                                                          |   | for message "Tripped"                                         |
| <b>Number of CO contacts</b>                                    |   |                                                               |
| • for auxiliary contacts                                        |   | 0                                                             |
| <b>Design of the auxiliary switch</b>                           |   | integrated                                                    |
| <b>Operating current of the auxiliary contacts at AC-15</b>     |   |                                                               |
| • 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                                                             |
| <b>Operating current of the auxiliary contacts at DC-13</b>     |   |                                                               |
| • at 24 V                                                       | A | 2                                                             |
| • at 110 V                                                      | A | 0.22                                                          |
| • at 125 V                                                      | A | 0.22                                                          |
| • at 220 V                                                      | A | 0.11                                                          |
| <b>Design of the miniature circuit breaker</b>                  |   |                                                               |
| • for short-circuit protection of the auxiliary switch required |   | 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) |

#### Protective and monitoring functions:

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

#### UL/CSA ratings:

|                                                         |   |    |
|---------------------------------------------------------|---|----|
| <b>Full-load current (FLA) for three-phase AC motor</b> |   |    |
| • at 480 V Rated value                                  | A | 73 |

|                                                            |   |             |
|------------------------------------------------------------|---|-------------|
| • at 600 V Rated value                                     | A | 73          |
| <b>Contact rating of the auxiliary contacts acc. to UL</b> |   | B600 / R300 |

### Short-circuit:

|                                                                                                                                                                                                                                             |  |                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------|
| <b>Design of the fuse link</b>                                                                                                                                                                                                              |  |                                             |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> |  | Fuse gG: 160 A<br>fuse gG: 6 A, quick: 10 A |

### Installation/ mounting/ dimensions:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------|
| <b>mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | any                                                                                         |
| <b>Mounting type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    | direct mounting                                                                             |
| <b>Height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mm | 90                                                                                          |
| <b>Width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mm | 55                                                                                          |
| <b>Depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | mm | 105                                                                                         |
| <b>Required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                             |
| <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— Backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | mm | 10<br>0<br>10<br>10<br>10<br><br>10<br>0<br>10<br>10<br>10<br><br>10<br>0<br>10<br>10<br>10 |

### Connections/ Terminals:

|                                                                                                                                   |  |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|
| <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> |  | screw-type terminals<br>screw-type terminals |
| <b>Arrangement of electrical connectors for main current circuit</b>                                                              |  | Top and bottom                               |
| <b>Product function</b>                                                                                                           |  |                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>removable terminal for auxiliary and control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                              |     | No                                                                                                                                                                                                                                                                                                                                                       |
| <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</li> <li>finely stranded with core end processing</li> </ul> </li> <li>for AWG conductors for main contacts</li> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>single or multi-stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>for AWG conductors for auxiliary contacts</li> </ul> |     | 2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> )<br>2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> )<br>2x (18 ... 2), 1x (18 ... 1)<br><br>2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14) |
| <b>Tightening torque</b> <ul style="list-style-type: none"> <li>for main contacts with screw-type terminals</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                              | N·m | 3 ... 4.5                                                                                                                                                                                                                                                                                                                                                |
| <b>Design of screwdriver shaft</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | 5 to 6 mm diameter                                                                                                                                                                                                                                                                                                                                       |
| <b>Design of the thread of the connection screw</b> <ul style="list-style-type: none"> <li>for main contacts</li> <li>of the auxiliary and control contacts</li> </ul>                                                                                                                                                                                                                                                                                                                                              |     | M6<br>M3                                                                                                                                                                                                                                                                                                                                                 |

#### Safety related data:

|                                            |  |                                                                  |
|--------------------------------------------|--|------------------------------------------------------------------|
| <b>Protection against electrical shock</b> |  | finger-safe when touched vertically from front acc. to IEC 60529 |
|--------------------------------------------|--|------------------------------------------------------------------|

#### Mechanical data:

|                               |  |    |
|-------------------------------|--|----|
| <b>Size of overload relay</b> |  | S2 |
|-------------------------------|--|----|

#### Ambient conditions:

|                                                                                                                                                 |                |                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------|
| <b>Installation altitude at height above sea level maximum</b>                                                                                  | m              | 2 000                                     |
| <b>Ambient temperature</b> <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul> | °C<br>°C<br>°C | -40 ... +70<br>-55 ... +80<br>-55 ... +80 |
| <b>Relative humidity during operation</b>                                                                                                       | %              | 0 ... 90                                  |

#### Display:

|                                                                                               |  |              |
|-----------------------------------------------------------------------------------------------|--|--------------|
| <b>Display version</b> <ul style="list-style-type: none"> <li>for switching status</li> </ul> |  | Slide switch |
|-----------------------------------------------------------------------------------------------|--|--------------|

#### Certificates/ approvals:

|                          |                                |                           |                   |
|--------------------------|--------------------------------|---------------------------|-------------------|
| General Product Approval | For use in hazardous locations | Declaration of Conformity | Test Certificates |
|--------------------------|--------------------------------|---------------------------|-------------------|



[Type Test Certificates/Test Report](#)

|                   |       |
|-------------------|-------|
| Test Certificates | other |
|-------------------|-------|

[Special Test Certificate](#)

[Confirmation](#)

[Environmental Confirmations](#)

### 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

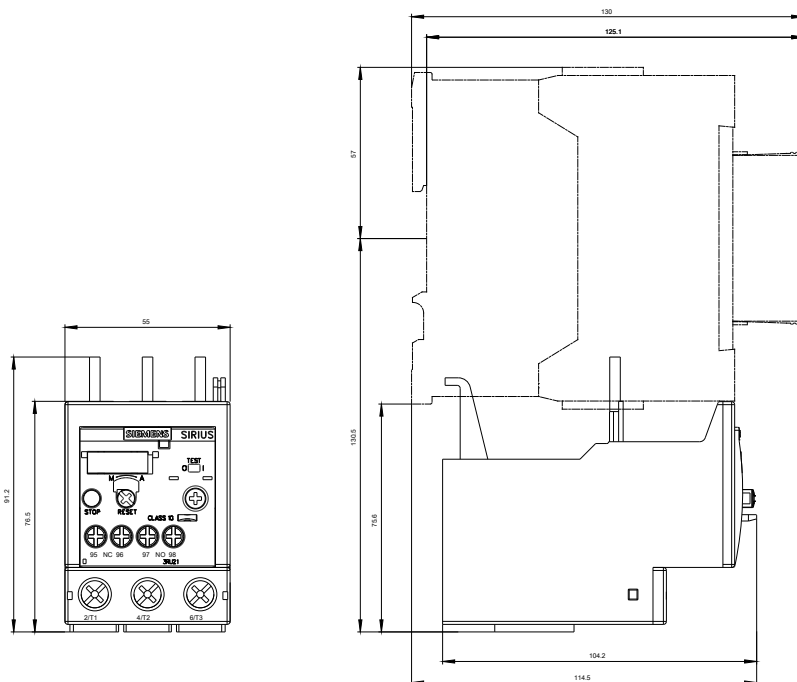
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU21364KB0>

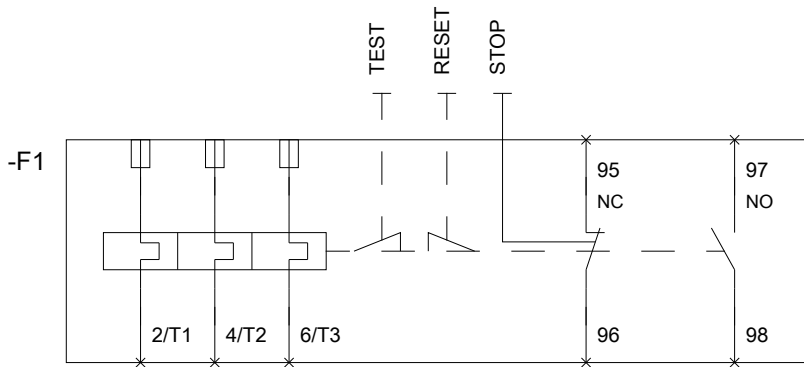
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RU21364KB0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RU21364KB0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU21364KB0&lang=en)





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