

OVERLOAD RELAY 3...12 A FOR MOTOR PROTECTION SIZE S0,  
CLASS 20 CONTACTOR ASS. MAIN CIRCUIT: SCREW CONN.  
AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-RESET  
REUSABLE PACKAGING PACKAGE = 60 ITEMS



|                                                                                |                            |
|--------------------------------------------------------------------------------|----------------------------|
| product brandname                                                              | SIRIUS                     |
| Product designation                                                            | solid-state overload relay |
| General technical data                                                         |                            |
| Size of overload relay                                                         | S0                         |
| Size of contactor can be combined company-specific                             | S0                         |
| Power loss [W] total typical                                                   | 0.6 W                      |
| Insulation voltage with degree of pollution 3 rated value                      | 690 V                      |
| Surge voltage resistance rated value                                           | 6 kV                       |
| maximum permissible voltage for safe isolation                                 |                            |
| • in networks with grounded star point between auxiliary and auxiliary circuit | 300 V                      |
| • in networks with grounded star point between auxiliary and auxiliary circuit | 300 V                      |
| • in networks with grounded star point between main and auxiliary circuit      | 600 V                      |
| • in networks with grounded star point between main and auxiliary circuit      | 690 V                      |
| Protection class IP                                                            |                            |
| • on the front                                                                 | IP20                       |

|                                                    |                                                          |
|----------------------------------------------------|----------------------------------------------------------|
| • of the terminal                                  | IP20                                                     |
| <b>Shock resistance</b>                            |                                                          |
| • acc. to IEC 60068-2-27                           | 15g / 11 ms                                              |
| <b>Vibration resistance</b>                        | 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s <sup>2</sup> ; 10 cycles |
| <b>Thermal current</b>                             | 12 A                                                     |
| <b>Recovery time</b>                               |                                                          |
| • after overload trip with automatic reset typical | 3 min                                                    |
| • after overload trip with remote-reset            | 0 min                                                    |
| • after overload trip with manual reset            | 0 min                                                    |
| <b>Type of protection</b>                          | II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]    |
| <b>Certificate of suitability relating to ATEX</b> | PTB 09 ATEX 3001                                         |
| <b>Protection against electrical shock</b>         | finger-safe                                              |
| Equipment marking acc. to DIN EN 81346-2           | F                                                        |

#### Ambient conditions

|                                                                |                |
|----------------------------------------------------------------|----------------|
| <b>Installation altitude at height above sea level maximum</b> | 2 000 m        |
| <b>Ambient temperature</b>                                     |                |
| • during operation                                             | -25 ... +60 °C |
| • during storage                                               | -40 ... +80 °C |
| • during transport                                             | -40 ... +80 °C |
| <b>Temperature compensation</b>                                | 60 ... -25 °C  |
| <b>Relative humidity during operation</b>                      | 10 ... 95 %    |

#### Main circuit

|                                                                                   |              |
|-----------------------------------------------------------------------------------|--------------|
| <b>Number of poles for main current circuit</b>                                   | 3            |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 3 ... 12 A   |
| <b>Operating voltage</b>                                                          |              |
| • rated value                                                                     | 690 V        |
| • at AC-3 rated value maximum                                                     | 690 V        |
| <b>Operating frequency rated value</b>                                            | 50 ... 60 Hz |
| <b>Operating current rated value</b>                                              | 12 A         |

#### Auxiliary circuit

|                                                         |                             |
|---------------------------------------------------------|-----------------------------|
| <b>Design of the auxiliary switch</b>                   | integrated                  |
| <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>Operating current of auxiliary contacts at AC-15</b> |                             |

|                                                         |        |
|---------------------------------------------------------|--------|
| • at 24 V                                               | 4 A    |
| • at 110 V                                              | 4 A    |
| • at 120 V                                              | 4 A    |
| • at 125 V                                              | 4 A    |
| • at 230 V                                              | 3 A    |
| <b>Operating current of auxiliary contacts at DC-13</b> |        |
| • at 24 V                                               | 2 A    |
| • at 60 V                                               | 0.55 A |
| • at 110 V                                              | 0.3 A  |
| • at 125 V                                              | 0.3 A  |
| • at 220 V                                              | 0.11 A |

#### Protective and monitoring functions

|                                       |            |
|---------------------------------------|------------|
| <b>Trip class</b>                     | CLASS 20E  |
| <b>Design of the overload release</b> | electronic |

#### UL/CSA ratings

|                                                             |             |
|-------------------------------------------------------------|-------------|
| <b>Full-load current (FLA) for three-phase AC motor</b>     |             |
| • at 480 V rated value                                      | 12 A        |
| • at 600 V rated value                                      | 12 A        |
| <b>Contact rating of auxiliary contacts according to UL</b> | B600 / R300 |

#### Short-circuit protection

|                                                                 |                     |
|-----------------------------------------------------------------|---------------------|
| <b>Design of the fuse link</b>                                  |                     |
| • for short-circuit protection of the main circuit              |                     |
| — with type of coordination 1 required                          | gG: 63 A, RK5: 45 A |
| — with type of assignment 2 required                            | gG: 50 A, J: 45 A   |
| • for short-circuit protection of the auxiliary switch required | fuse gG: 6 A        |

#### Installation/ mounting/ dimensions

|                              |                 |
|------------------------------|-----------------|
| <b>Mounting position</b>     | any             |
| <b>Mounting type</b>         | direct mounting |
| <b>Height</b>                | 87 mm           |
| <b>Width</b>                 | 45 mm           |
| <b>Depth</b>                 | 84 mm           |
| <b>Required spacing</b>      |                 |
| • with side-by-side mounting |                 |
| — forwards                   | 0 mm            |
| — Backwards                  | 0 mm            |
| — upwards                    | 0 mm            |
| — downwards                  | 0 mm            |
| — at the side                | 0 mm            |
| • for grounded parts         |                 |

|                  |      |
|------------------|------|
| — forwards       | 6 mm |
| — Backwards      | 0 mm |
| — upwards        | 6 mm |
| — at the side    | 6 mm |
| — downwards      | 6 mm |
| • for live parts |      |
| — forwards       | 6 mm |
| — Backwards      | 0 mm |
| — upwards        | 6 mm |
| — downwards      | 6 mm |
| — at the side    | 6 mm |

## Connections/Terminals

|                                                                      |                                                                                                         |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Product function</b>                                              |                                                                                                         |
| • removable terminal for auxiliary and control circuit               | Yes                                                                                                     |
| <b>Type of electrical connection</b>                                 |                                                                                                         |
| • for main current circuit                                           | screw-type terminals                                                                                    |
| • for auxiliary and control current circuit                          | screw-type terminals                                                                                    |
| <b>Arrangement of electrical connectors for main current circuit</b> | Top and bottom                                                                                          |
| <b>Type of connectable conductor cross-sections</b>                  |                                                                                                         |
| • for main contacts                                                  |                                                                                                         |
| — single or multi-stranded                                           | 1x (1 ... 10 mm <sup>2</sup> ), 2x (1 ... 10 mm <sup>2</sup> )                                          |
| — finely stranded with core end processing                           | 1x (1 ... 6 mm <sup>2</sup> ), 2 x (1 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>                    |
| • at AWG conductors for main contacts                                | 1x (16 ... 8), 2x (16 ... 8)                                                                            |
| <b>Type of connectable conductor cross-sections</b>                  |                                                                                                         |
| • for auxiliary contacts                                             |                                                                                                         |
| — single or multi-stranded                                           | 1x (0,5 ... 4 mm <sup>2</sup> ), 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )  |
| — finely stranded with core end processing                           | 1x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,5 ... 1,5 mm <sup>2</sup> ), 1x (0,5 ... 2,5 mm <sup>2</sup> ) |
| • at AWG conductors for auxiliary contacts                           | 1x (20 ... 14), 2x (20 ... 14)                                                                          |
| <b>Tightening torque</b>                                             |                                                                                                         |
| • for main contacts with screw-type terminals                        | 2 ... 2,5 N·m                                                                                           |
| • for auxiliary contacts with screw-type terminals                   | 0,8 ... 1,2 N·m                                                                                         |
| <b>Design of screwdriver shaft</b>                                   | Diameter 5 to 6 mm                                                                                      |
| <b>Design of the thread of the connection screw</b>                  |                                                                                                         |
| • for main contacts                                                  | M4                                                                                                      |
| • of the auxiliary and control contacts                              | M3                                                                                                      |

## Communication/ Protocol

|                                                            |    |
|------------------------------------------------------------|----|
| <b>Type of voltage supply via input/output link master</b> | No |
|------------------------------------------------------------|----|

## Electromagnetic compatibility

|                                                             |        |
|-------------------------------------------------------------|--------|
| <b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b> | 10 V/m |
|-------------------------------------------------------------|--------|

Electrostatic discharge acc. to IEC 61000-4-2

6 kV contact discharge / 8 kV air discharge

## Display

### Display version

- for switching status

Slide switch

## Certificates/approvals

### General Product Approval

### EMC

For use in  
hazardous  
locations



CCC



CSA



UL



C-Tick



ATEX

### Declaration of Conformity



EG-Konf.

[Typprüfbescheinigung/Werkzeugnis](#)

[spezielle  
Prüfbescheinigung  
n](#)



ABS



BUREAU  
VERITAS



DNV

### Shipping Approval

### other



GL



LRS



RINA

[Umweltbestätigung](#)

[Bestätigungen](#)

## Further information

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

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

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3026-2SB0-Z X95>

### Cax online generator

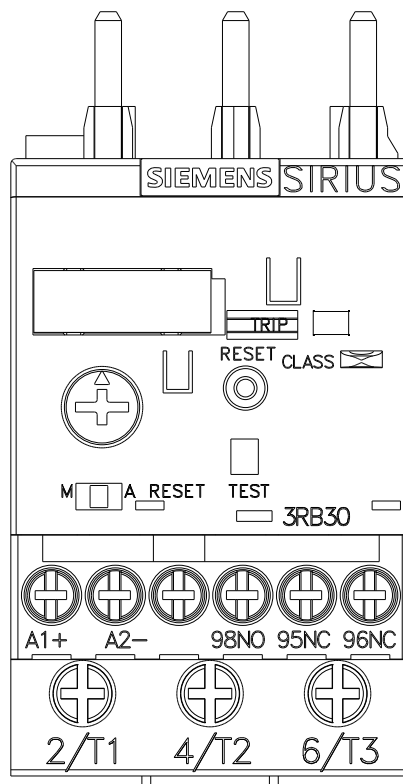
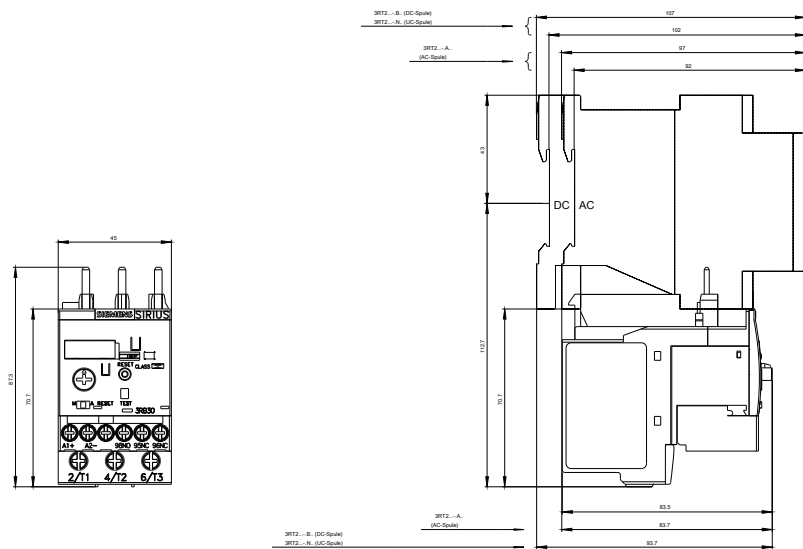
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-2SB0-Z X95>

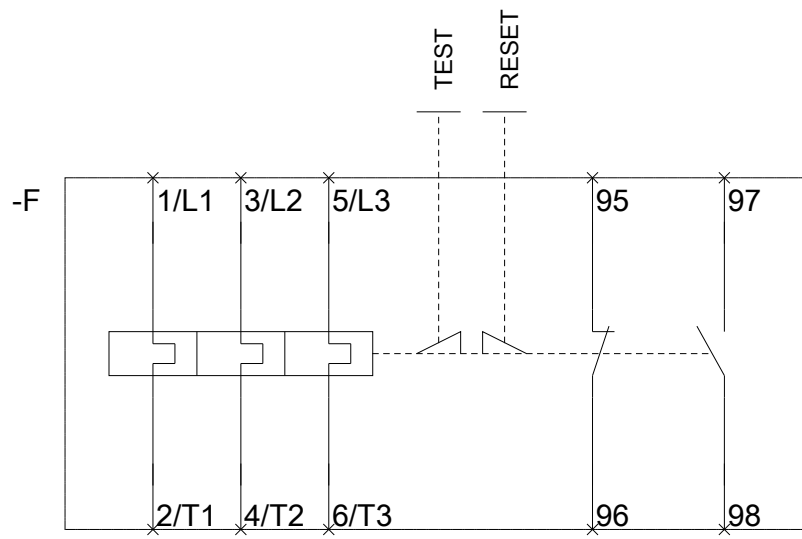
### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2SB0-Z X95>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RB3026-2SB0-Z X95&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-2SB0-Z X95&lang=en)





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