

OVERLOAD RELAY 45...63 A FOR MOTOR PROTECTION SIZE S3, CLASS 10 STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL AUTOM. RESET REUSABLE PACKAGING 1 PACK = 25 UNITS



Figure similar

|                                                           |                        |
|-----------------------------------------------------------|------------------------|
| product brandname                                         | SIRIUS                 |
| Product designation                                       | thermal overload relay |
| General technical data                                    |                        |
| Size of overload relay                                    | S3                     |
| Size of contactor can be combined company-specific        | S3                     |
| Power loss [W] total typical                              | 16.5 W                 |
| Insulation voltage with degree of pollution 3 rated value | 1 000 V                |
| Surge voltage resistance rated value                      | 8 kV                   |
| Protection class IP                                       |                        |
| • on the front                                            | IP20                   |
| Shock resistance                                          | 8g / 10 ms             |
| Type of protection                                        | DMT 98 ATEX G 001      |
| Protection against electrical shock                       | 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                                             | -20 ... +70 °C |
| • during storage                                               | -55 ... +80 °C |
| • during transport                                             | -55 ... +80 °C |
| <b>Relative humidity during operation</b>                      | 100 %          |

#### 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> | 45 ... 63 A |
| <b>Operating voltage</b>                                                          |             |
| • at AC-3 rated value maximum                                                     | 1 000 V     |

#### Auxiliary circuit

|                                                         |        |
|---------------------------------------------------------|--------|
| <b>Number of NC contacts</b>                            |        |
| • for auxiliary contacts                                | 1      |
| <b>Number of NO contacts</b>                            |        |
| • for auxiliary contacts                                | 1      |
| <b>Number of CO contacts</b>                            |        |
| • for auxiliary contacts                                | 0      |
| <b>Operating current of auxiliary contacts at AC-15</b> |        |
| • at 24 V                                               | 3 A    |
| • at 110 V                                              | 3 A    |
| • at 120 V                                              | 3 A    |
| • at 125 V                                              | 3 A    |
| • at 230 V                                              | 2 A    |
| • at 400 V                                              | 1 A    |
| <b>Operating current of auxiliary contacts at DC-13</b> |        |
| • at 24 V                                               | 1 A    |
| • at 110 V                                              | 0.22 A |
| • at 125 V                                              | 0.22 A |
| • at 220 V                                              | 0.11 A |

#### Protective and monitoring functions

|                   |          |
|-------------------|----------|
| <b>Trip class</b> | CLASS 10 |
|-------------------|----------|

#### 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: 200 A                    |
| — with type of assignment 2 required                            | gG: 125 A                    |
| • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 6 A, quick: 10 A |

## Installation/ mounting/ dimensions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Mounting position</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| <b>Mounting type</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | stand-alone installation                                                                                                |
| <b>Height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 120 mm                                                                                                                  |
| <b>Width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 70 mm                                                                                                                   |
| <b>Depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 140 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 0 mm</li> <li>— downwards 0 mm</li> <li>— at the side 0 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 0 mm</li> <li>— at the side 6 mm</li> <li>— downwards 0 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 0 mm</li> <li>— downwards 0 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>                                                                                                                                                                                                                                                                                                         | screw-type terminals<br>screw-type terminals |
| <b>Type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                              |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid 2x (2.5 ... 16 mm<sup>2</sup>)</li> <li>— stranded 2x (10 ... 50 mm<sup>2</sup>), 10 ... 70 mm<sup>2</sup></li> <li>— finely stranded with core end processing 2x (2.5 ... 35 mm<sup>2</sup>), 2.5 ... 50 mm<sup>2</sup></li> </ul> </li> <li>• at AWG conductors for main contacts 2x (10 ... 1/0), 1x (10 ... 2/0)</li> </ul> |                                              |
| <b>Type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                       |                                              |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid 2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)</li> </ul> </li> </ul>                                                                                                                                                                                                                                   |                                              |

- finely stranded with core end processing
- at AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>)  
 2x (20 ... 16), 2x (18 ... 14)

## Certificates/approvals

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



| Test Certificates | Shipping Approval |
|-------------------|-------------------|
|-------------------|-------------------|

[spezielle Prüfbescheinigungen](#)

[Typprüfbescheinigung/Werkszeugnis](#)



| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



[Umweltbestätigung](#)

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## 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=3RU1146-4JB1-Z X95>

Cax online generator

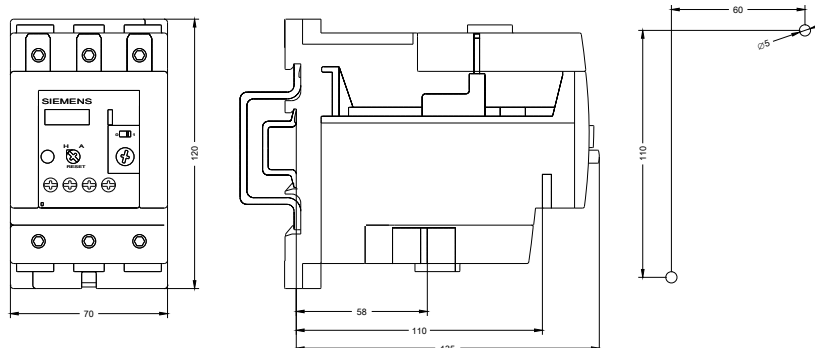
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1146-4JB1-Z X95>

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

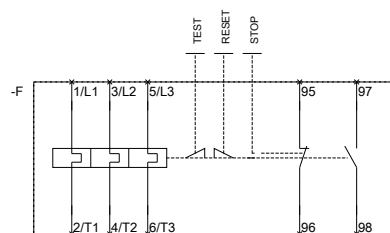
<https://support.industry.siemens.com/cs/ww/en/ps/3RU1146-4JB1-Z X95>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RU1146-4JB1-Z X95&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1146-4JB1-Z X95&lang=en)



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