



Overload relay 2.2...3.2 A Thermal For motor protection Size S0, Class 10  
 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit:  
 spring-type terminal Manual-Automatic-Reset

|  |                        |
|--|------------------------|
| <b>product brand name</b>  | SIRIUS                 |
| <b>product designation</b>   | thermal overload relay |
| <b>product type designation</b>  | 3RU2                   |
| <b>General technical data</b>  |                        |
| <b>size of overload relay</b>  | S0                     |
| <b>size of contactor can be combined company-specific</b>                                  | S0                     |
| power loss [W] for rated value of the current at AC in hot operating state                 | 5.7 W                  |
| • per pole   | 1.9 W                  |
| insulation voltage with degree of pollution 3 at AC rated value                            | 690 V                  |
| <b>surge voltage resistance rated value</b>  | 6 kV                   |
| <b>maximum permissible voltage for safe isolation in networks with grounded star point</b> |                        |
| • between auxiliary and auxiliary circuit  | 440 V                  |
| • between auxiliary and auxiliary circuit  | 440 V                  |
| • between main and auxiliary circuit   | 440 V                  |
| • between main and auxiliary circuit   | 440 V                  |
| shock resistance acc. to IEC 60068-2-27  | 8g / 11 ms             |
| <b>type of protection according to ATEX directive 2014/34/EU</b>                           | Ex II (2) GD           |
| certificate of suitability according to ATEX directive 2014/34/EU                          | DMT 98 ATEX G 001      |
| <b>reference code acc. to IEC 81346-2</b>  | F                      |
| <b>Substance Prohibitance (Date)</b>   | 01.10.2009 00:00:00    |
| <b>Ambient conditions</b>  |                        |
| installation altitude at height above sea level maximum                                    | 2 000 m                |
| <b>ambient temperature</b>   |                        |
| • during operation   | -40 ... +70 °C         |
| • during storage   | -55 ... +80 °C         |
| • during transport   | -55 ... +80 °C         |
| <b>temperature compensation</b>  | -40 ... +60 °C         |
| relative humidity during operation   | 10 ... 95 %            |
| <b>Main circuit</b>  |                        |
| <b>number of poles for main current circuit</b>  | 3                      |
| <b>adjustable current response value current of the current-dependent overload release</b> | 2.2 ... 3.2 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>operational current rated value</b>  | 3.2 A                             |
| operating power at AC-3   |                                   |
| • at 400 V rated value  | 1.1 kW                            |
| • at 500 V rated value  | 1.5 kW                            |
| • at 690 V rated value  | 2.2 kW                            |
| <b>Auxiliary circuit</b>  |                                   |
| <b>design of the auxiliary switch</b>   | integrated                        |
| <b>number of NC contacts for auxiliary contacts</b>                           | 1                                 |
| • note  | for contactor disconnection       |
| <b>number of NO contacts for auxiliary contacts</b>                           | 1                                 |
| • note  | for message "Tripped"             |
| number of CO contacts for auxiliary contacts                                  | 0                                 |
| <b>operational 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>operational current of auxiliary contacts at DC-13</b>                     |                                   |
| • at 24 V   | 2 A                               |
| • at 60 V   | 0.3 A                             |
| • at 110 V  | 0.22 A                            |
| • at 125 V  | 0.22 A                            |
| • at 220 V  | 0.11 A                            |
| <b>contact rating of auxiliary contacts according to UL</b>                   | B600 / R300                       |
| <b>Protective and monitoring functions</b>                                    |                                   |
| <b>trip class</b>   | CLASS 10                          |
| <b>design of the overload release</b>   | thermal                           |
| <b>UL/CSA ratings</b>   |                                   |
| <b>full-load current (FLA) for 3-phase AC motor</b>                           |                                   |
| • at 480 V rated value  | 3.2 A                             |
| • at 600 V rated value  | 3.2 A                             |
| <b>Short-circuit protection</b>   |                                   |
| <b>design of the fuse link</b>  |                                   |
| • for short-circuit protection of the auxiliary switch required               | fuse gG: 6 A, quick: 10 A         |
| <b>Installation/ mounting/ dimensions</b>                                     |                                   |
| <b>mounting position</b>  | any                               |
| <b>fastening method</b>   | Contacteur mounting               |
| <b>height</b>   | 102 mm                            |
| <b>width</b>  | 45 mm                             |
| <b>depth</b>  | 84 mm                             |
| <b>Connections/ Terminals</b>   |                                   |
| <b>product component removable terminal for auxiliary and control circuit</b> | No                                |
| <b>type of electrical connection</b>  |                                   |
| • for main current circuit  | spring-loaded terminals           |
| • for auxiliary and control circuit   | spring-loaded 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   |                                   |
| — solid or stranded   | 1x (1 ... 10 mm <sup>2</sup> )    |
| — finely stranded with core end processing                                    | 1x (1 ... 6 mm <sup>2</sup> )     |
| — finely stranded without core end processing                                 | 1x (1 ... 6 mm <sup>2</sup> )     |
| • at AWG cables for main contacts   | 1x (18 ... 8)                     |
| <b>type of connectable conductor cross-sections</b>                           |                                   |
| • for auxiliary contacts  |                                   |
| — solid or stranded   | 2x (0.5 ... 2.5 mm <sup>2</sup> ) |

|   |   |
|---|---|
| — finely stranded with core end processing                                | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| — finely stranded without core end processing                             | 2x (0.5 ... 1.5 mm <sup>2</sup> )                                     |
| • at AWG cables for auxiliary contacts                                    | 2x (20 ... 14)  |
| <b>design of screwdriver shaft</b>  | Diameter 3 mm   |
| <b>size of the screwdriver tip</b>  | 3,0 x 0,5 mm  |
| <b>Safety related data</b>  |   |
| failure rate [FIT] with low demand rate acc. to SN 31920                  | 50 FIT  |
| <b>MTTF with high demand rate</b>   | 2 280 y   |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b> | 20 y  |
| <b>protection class IP on the front acc. to IEC 60529</b>                 | IP20  |
| <b>touch protection on the front acc. to IEC 60529</b>                    | finger-safe, for vertical contact from the front                      |
| <b>Display</b>  |   |
| display version for switching status                                      | Slide switch  |
| <b>Certificates/ approvals</b>  |   |
| <b>General Product Approval</b>   | <b>For use in hazardous locations</b>                                 |



|                                  |                          |                          |
|----------------------------------|--------------------------|--------------------------|
| <b>Declaration of Conformity</b> | <b>Test Certificates</b> | <b>Marine / Shipping</b> |
|----------------------------------|--------------------------|--------------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



|                          |              |                |
|--------------------------|--------------|----------------|
| <b>Marine / Shipping</b> | <b>other</b> | <b>Railway</b> |
|--------------------------|--------------|----------------|



[Confirmation](#)

[Vibration and Shock](#)

### Further information

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2126-1DC0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1DC0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1DC0>

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

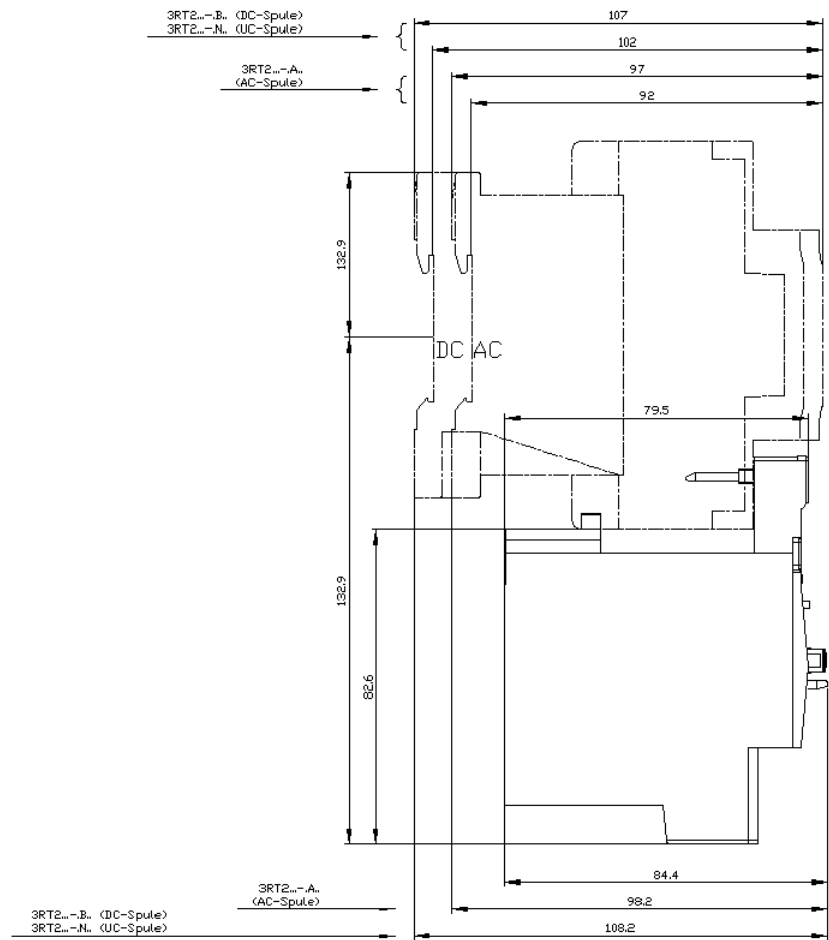
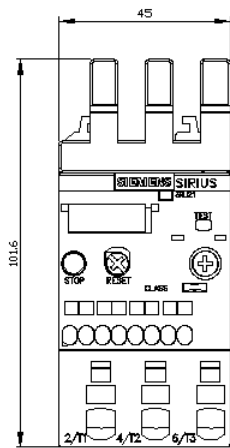
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RU2126-1DC0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1DC0&lang=en)

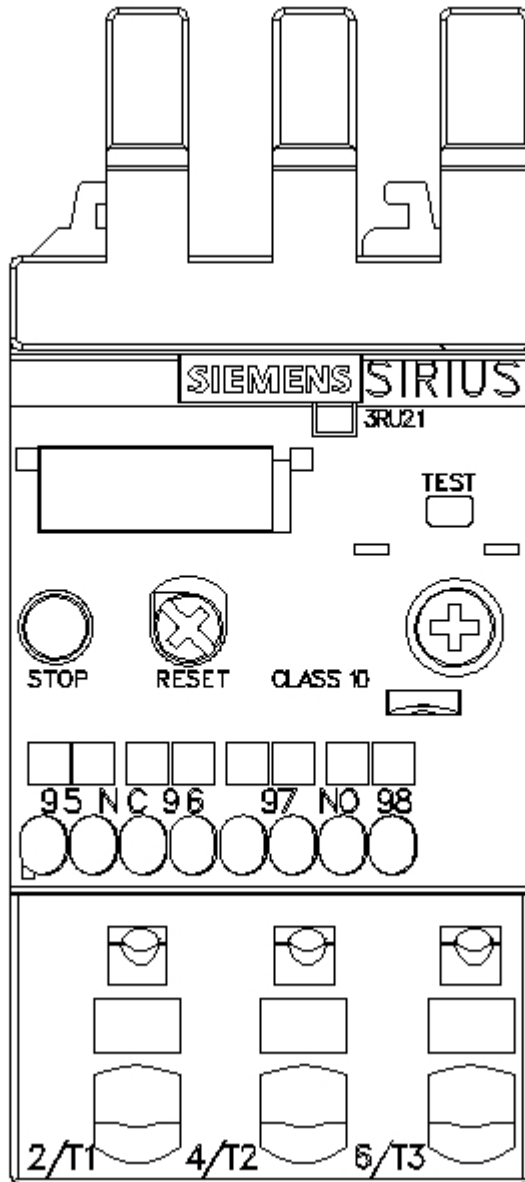
Characteristic: Tripping characteristics, I<sup>t</sup>, Let-through current

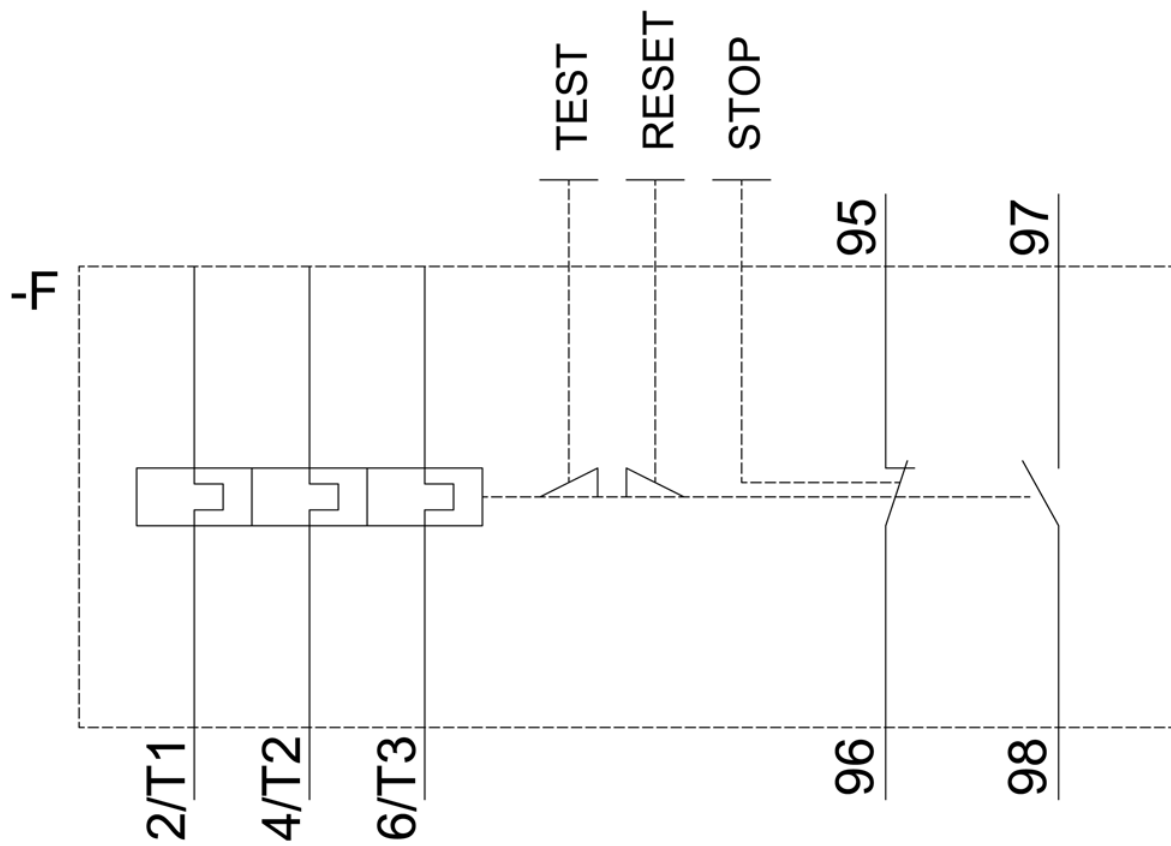
<https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1DC0/char>

Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1DC0&objecttype=14&gridview=view1>







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