



Overload relay 40...50 A For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw terminal Auxiliary circuit: Screw terminal Manual-Automatic-Reset !!! Phased-out product !!! Successor is SIRIUS 3RU2 Preferred successor type is >>3RU2136-4HB0<<

| | |
|----------------------------|------------------------|
| product brand name | SIRIUS |
| product designation | thermal overload relay |

General technical data

| | |
|---|-------------------|
| size of overload relay | S2 |
| size of contactor can be combined company-specific | S2 |
| power loss [W] for rated value of the current at AC in hot operating state | 15.6 W |
| <ul style="list-style-type: none"> per pole | 5.2 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| protection class IP on the front | IP20 |
| shock resistance | 8g / 10 ms |
| type of protection | DMT 98 ATEX G 001 |
| reference code according to IEC 81346-2 | F |
| Substance Prohibitance (Date) | 07/01/2006 |

Ambient conditions

| | |
|--|--|
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation during storage during transport | -20 ... +70 °C -55 ... +80 °C -55 ... +80 °C |
| relative humidity during operation | 100 % |

Main circuit

| | |
|--|-------------|
| number of poles for main current circuit | 3 |
| adjustable current response value current of the current-dependent overload release | 40 ... 50 A |

Auxiliary circuit

| | |
|---|--|
| number of NC contacts for auxiliary contacts | 1 |
| number of NO contacts for auxiliary contacts | 1 |
| number of CO contacts for auxiliary contacts | 0 |
| operational current of auxiliary contacts at AC-15 | |
| <ul style="list-style-type: none"> at 24 V at 110 V at 120 V at 125 V at 230 V at 400 V | 3 A 3 A 3 A 3 A 2 A 1 A |
| operational current of auxiliary contacts at DC-13 | |
| <ul style="list-style-type: none"> at 24 V at 110 V at 125 V | 1 A 0.22 A 0.22 A |

| | |
|---|---|
| • at 220 V | 0.11 A |
| Protective and monitoring functions | |
| trip class | CLASS 10 |
| Short-circuit protection | |
| design of the fuse link | fuse gL/gG: 6 A, quick: 10 A |
| • for short-circuit protection of the auxiliary switch required | |
| Installation/ mounting/ dimensions | |
| mounting position | with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back |
| fastening method | Contactactor mounting |
| height | 105 mm |
| width | 55 mm |
| depth | 118 mm |
| required spacing | |
| • 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 | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — at the side | 6 mm |
| — downwards | 0 mm |
| • for live parts | |
| — forwards | 0 mm |
| — backwards | 0 mm |
| — upwards | 0 mm |
| — downwards | 0 mm |
| — at the side | 6 mm |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and control circuit | No |
| type of electrical connection | |
| • for main current circuit | screw-type terminals |
| • for auxiliary and control circuit | screw-type terminals |
| type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid | 2x (0.75 ... 16 mm ²) |
| — stranded | 2x (0.75 ... 25 mm ²), 0.75 ... 35 mm ² |
| — finely stranded with core end processing | 2x (0.75 ... 16 mm ²), 0.75 ... 25 mm ² |
| • at AWG cables for main contacts | 2x (18 ... 3), 1x (18 ... 1) |
| type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| — solid | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • at AWG cables for auxiliary contacts | 2x (20 ... 16), 2x (18 ... 14) |
| Safety related data | |
| touch protection against electrical shock | finger-safe |
| Certificates/ approvals | |
| General Product Approval | For use in hazardous locations |



[Confirmation](#)



| | | | |
|--------------------------------|---------------------------|-------------------|-------------------|
| For use in hazardous locations | Declaration of Conformity | Test Certificates | Marine / Shipping |
|--------------------------------|---------------------------|-------------------|-------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



| | | |
|-------------------|-------|---------|
| Marine / Shipping | other | Railway |
|-------------------|-------|---------|



[Miscellaneous](#)

[Confirmation](#)

[Special Test Certificate](#)

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=3RU1136-4HB0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1136-4HB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1136-4HB0>

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

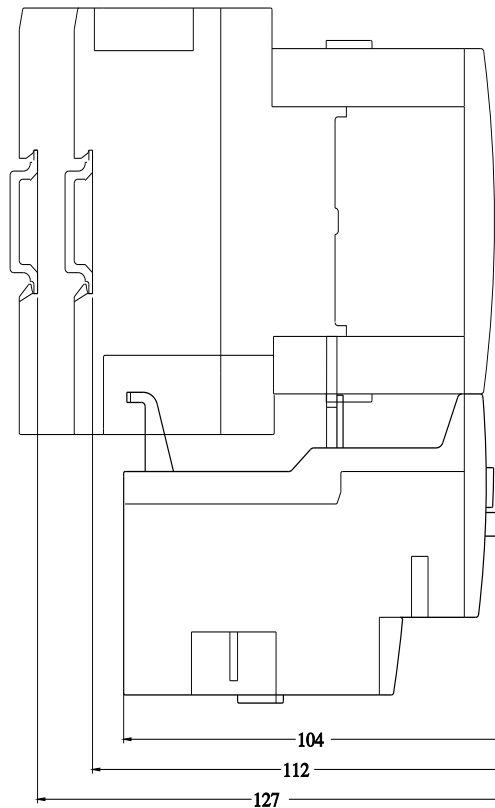
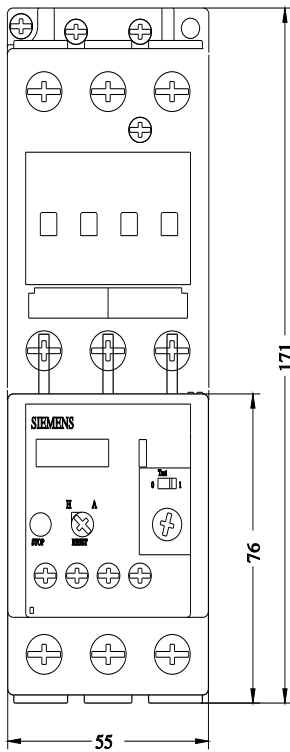
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1136-4HB0&lang=en

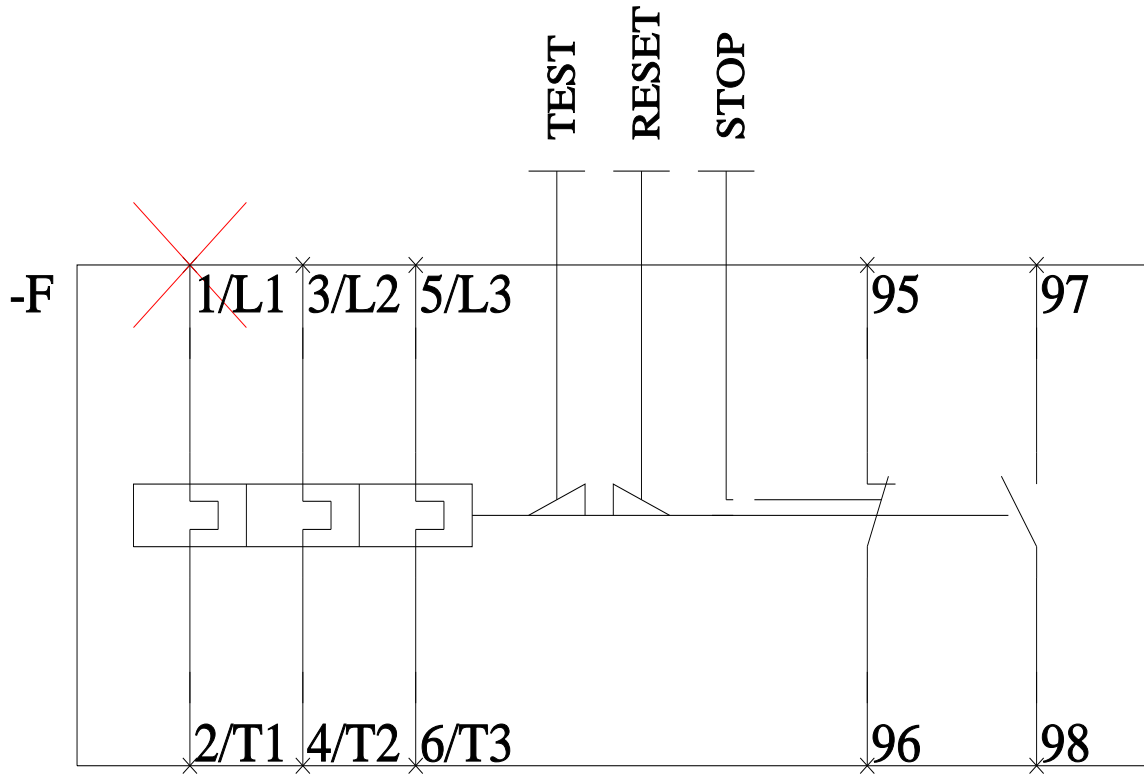
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1136-4HB0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU1136-4HB0&objecttype=14&gridview=view1>





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