



Overload relay 20...25 A Thermal For motor protection Size S0, Class 10
Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit:
spring-type terminal Manual-Automatic-Reset

| | |
|--------------------------|------------------------|
| product brand name | SIRIUS |
| product designation | thermal overload relay |
| product type designation | 3RU2 |

General technical data

| | |
|---|-------------------|
| size of overload relay | S0 |
| size of contactor can be combined company-specific | S0 |
| power loss [W] for rated value of the current at AC in hot operating state | 8.1 W |
| <ul style="list-style-type: none"> per pole | 2.7 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for safe isolation in networks with grounded star point | |
| <ul style="list-style-type: none"> between auxiliary and auxiliary circuit | 440 V |
| <ul style="list-style-type: none"> between auxiliary and auxiliary circuit | 440 V |
| <ul style="list-style-type: none"> between main and auxiliary circuit | 440 V |
| <ul style="list-style-type: none"> between main and auxiliary circuit | 440 V |
| shock resistance according to IEC 60068-2-27 | 8g / 11 ms |
| type of protection according to ATEX directive 2014/34/EU | Ex II (2) GD |
| certificate of suitability according to ATEX directive 2014/34/EU | DMT 98 ATEX G 001 |
| reference code according to IEC 81346-2 | F |
| Substance Prohibitance (Date) | 10/01/2009 |

Ambient conditions

| | |
|--|----------------|
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| <ul style="list-style-type: none"> during operation | -40 ... +70 °C |
| <ul style="list-style-type: none"> during storage | -55 ... +80 °C |
| <ul style="list-style-type: none"> during transport | -55 ... +80 °C |
| temperature compensation | -40 ... +60 °C |
| relative humidity during operation | 10 ... 95 % |

Main circuit

| | |
|---|--------------|
| number of poles for main current circuit | 3 |
| adjustable current response value current of the current-dependent overload release | 20 ... 25 A |
| operating voltage | |
| <ul style="list-style-type: none"> rated value | 690 V |
| <ul style="list-style-type: none"> at AC-3e rated value maximum | 690 V |
| operating frequency rated value | 50 ... 60 Hz |
| operational current rated value | 25 A |
| operational current at AC-3e at 400 V rated value | 25 A |

| | |
|---|--|
| operating power | |
| <ul style="list-style-type: none"> ● at AC-3 <ul style="list-style-type: none"> — at 400 V rated value — at 500 V rated value — at 690 V rated value ● at AC-3e <ul style="list-style-type: none"> — at 400 V rated value — at 500 V rated value — at 690 V rated value | 11 kW 15 kW 22 kW 11 kW 15 kW 22 kW |
| Auxiliary circuit | |
| design of the auxiliary switch | integrated |
| number of NC contacts for auxiliary contacts | 1 |
| <ul style="list-style-type: none"> ● note | for contactor disconnection |
| number of NO contacts for auxiliary contacts | 1 |
| <ul style="list-style-type: none"> ● note | for message "Tripped" |
| 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 ● at 690 V | 3 A 3 A 3 A 3 A 2 A 1 A 0.75 A |
| operational current of auxiliary contacts at DC-13 | |
| <ul style="list-style-type: none"> ● at 24 V ● at 60 V ● at 110 V ● at 125 V ● at 220 V | 2 A 0.3 A 0.22 A 0.22 A 0.11 A |
| contact rating of auxiliary contacts according to UL | B600 / R300 |
| Protective and monitoring functions | |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| <ul style="list-style-type: none"> ● at 480 V rated value ● at 600 V rated value | 25 A 25 A |
| Short-circuit protection | |
| design of the fuse link | |
| <ul style="list-style-type: none"> ● for short-circuit protection of the auxiliary switch required | fuse gG: 6 A, quick: 10 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | stand-alone installation |
| height | 114 mm |
| width | 45 mm |
| depth | 95 mm |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and control circuit | No |
| type of electrical connection | |
| <ul style="list-style-type: none"> ● for main current circuit ● for auxiliary and control circuit | spring-loaded terminals spring-loaded terminals |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| type of connectable conductor cross-sections for main contacts | |
| <ul style="list-style-type: none"> ● solid or stranded ● finely stranded with core end processing ● finely stranded without core end processing | 1x (1 ... 10 mm ²) 1x (1 ... 6 mm ²) 1x (1 ... 6 mm ²) |
| type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> ● for auxiliary contacts | |

- solid or stranded
- finely stranded with core end processing
- finely stranded without core end processing
- at AWG cables for auxiliary contacts

2x (0.5 ... 2.5 mm²)
 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)
 2x (0.5 ... 1.5 mm²)
 2x (20 ... 14)
 Diameter 3 mm
 3,0 x 0,5 mm

design of screwdriver shaft
size of the screwdriver tip

Safety related data

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|---|--|
| failure rate [FIT] with low demand rate according to SN 31920 | 50 FIT |
| MTTF with high demand rate | 2 280 a |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |

Display

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|--------------------------------------|--------------|
| display version for switching status | Slide switch |
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Certificates/ approvals

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|---------------------------------|---------------------------------------|
| 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 |
|--------------|----------------|

[Confirmation](#)

[Vibration and Shock](#)

Further information

- Information on the packaging**
<https://support.industry.siemens.com/cs/ww/en/view/109813875>
- 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=3RU2126-4DC1>
- Cax online generator**
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4DC1>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
<https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4DC1>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

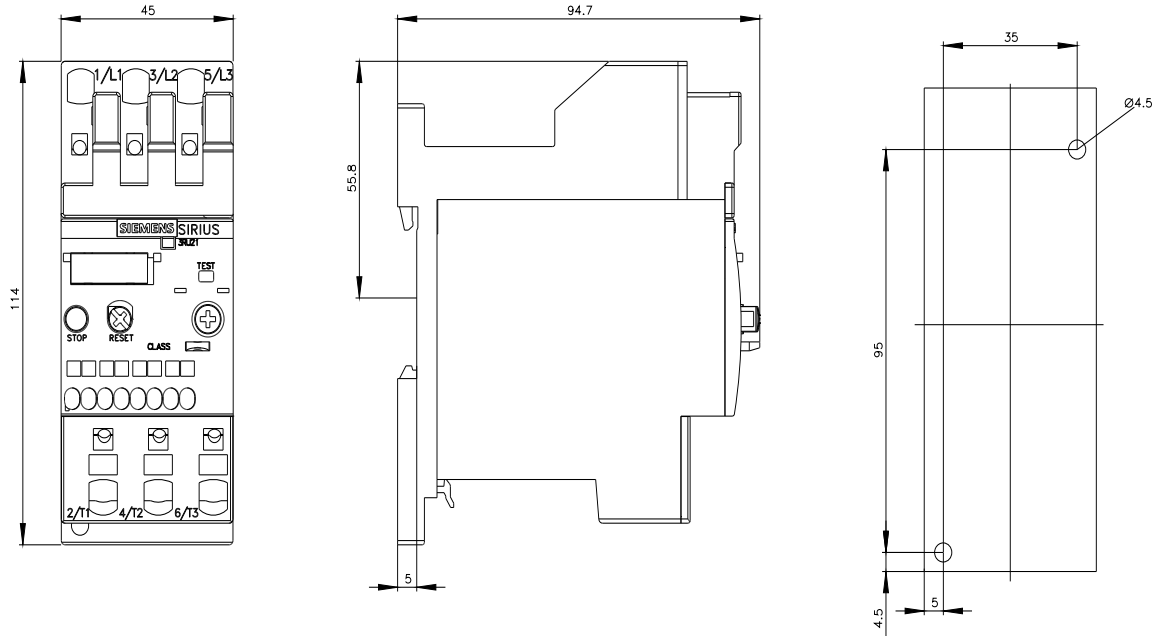
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4DC1&lang=en

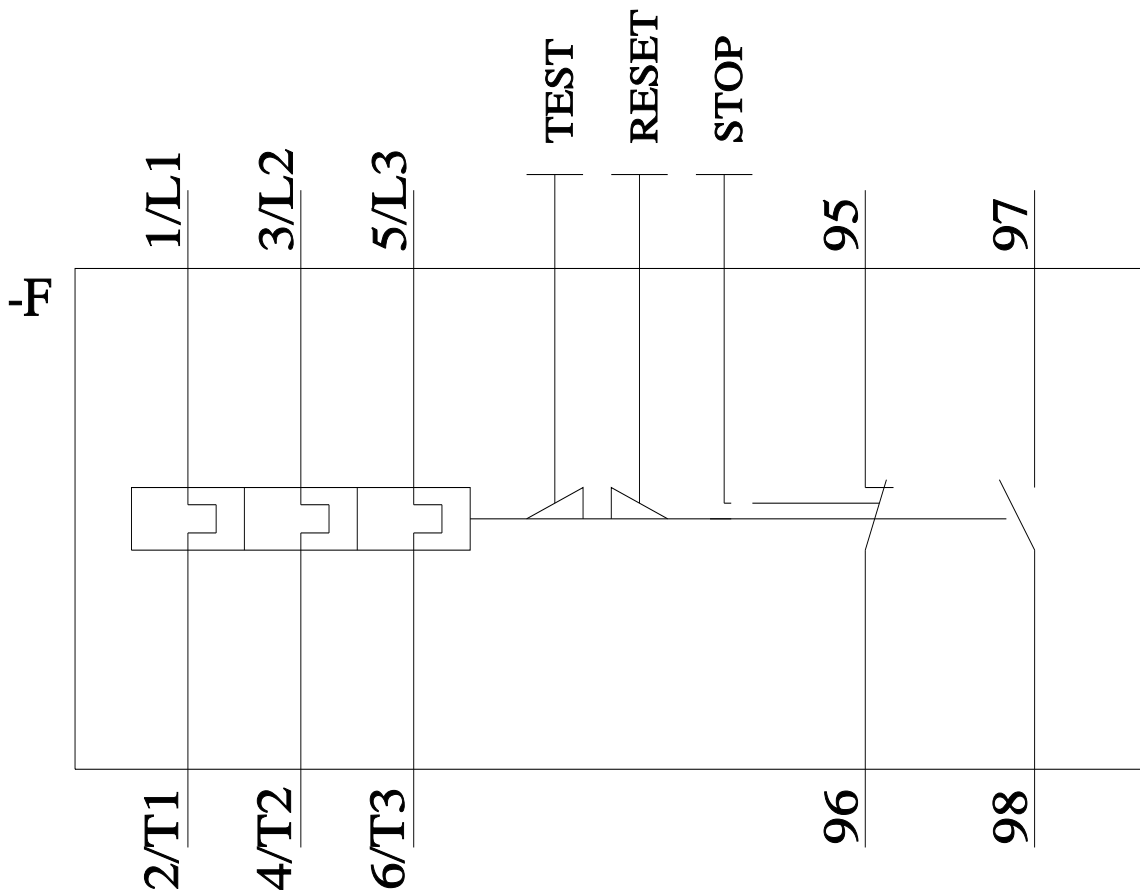
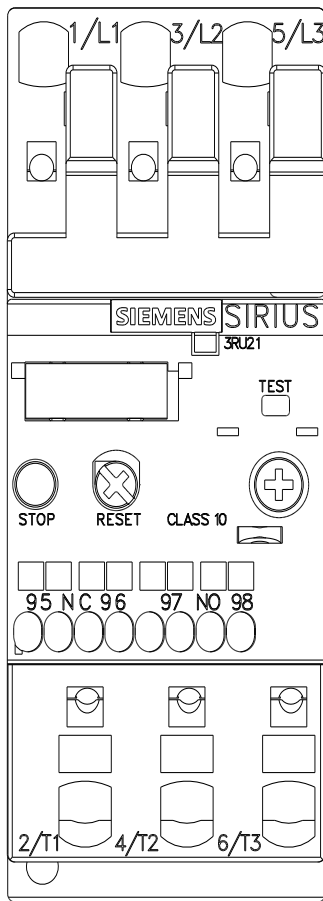
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4DC1/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4DC1&objecttype=14&gridview=view1>





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