



Overload relay 17...22 A Thermal For motor protection Size S0, Class 10
 Contactor mounting Main circuit: Ring cable lug Auxiliary circuit: ring cable
 lug 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 between auxiliary and auxiliary circuit between main and auxiliary circuit between main and auxiliary circuit | 440 V 440 V 440 V 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 during storage during transport | -40 ... +70 °C -55 ... +80 °C -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 | 17 ... 22 A |
| operating voltage | |
| <ul style="list-style-type: none"> rated value at AC-3e rated value maximum | 690 V 690 V |
| operating frequency rated value | 50 ... 60 Hz |
| operational current rated value | 22 A |
| operational current at AC-3e at 400 V rated value | 22 A |

| | |
|------------------------|---------|
| operating power | |
| • at AC-3 | |
| — at 400 V rated value | 11 kW |
| — at 500 V rated value | 11 kW |
| — at 690 V rated value | 18.5 kW |
| • at AC-3e | |
| — at 400 V rated value | 11 kW |
| — at 500 V rated value | 11 kW |
| — at 690 V rated value | 18.5 kW |

Auxiliary circuit

| | |
|-------------------------------------------------------------|-----------------------------|
| design of the auxiliary switch | integrated |
| number of NC contacts for auxiliary contacts | 1 |
| • note | for contactor disconnection |
| number of NO contacts for auxiliary contacts | 1 |
| • note | for message "Tripped" |
| number of CO contacts for auxiliary contacts | 0 |
| operational current of auxiliary contacts at AC-15 | |
| • 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 |
| operational current of auxiliary contacts at DC-13 | |
| • 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 |
| 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 | |
| • at 480 V rated value | 22 A |
| • at 600 V rated value | 22 A |

Short-circuit protection

| | |
|-----------------------------------------------------------------|---------------------------|
| design of the fuse link | |
| • for short-circuit protection of the auxiliary switch required | fuse gG: 6 A, quick: 10 A |

Installation/ mounting/ dimensions

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|--------------------------|---------------------|
| mounting position | any |
| fastening method | Contacteur mounting |
| height | 85 mm |
| width | 45 mm |
| depth | 85 mm |

Connections/ Terminals

| | |
|-------------------------------------------------------------------------------|------------------------------|
| product component removable terminal for auxiliary and control circuit | No |
| type of electrical connection | |
| • for main current circuit | Ring cable lug connection |
| • for auxiliary and control circuit | ring terminal lug connection |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| tightening torque | |
| • for main contacts for ring cable lug | 2.5 ... 2 N·m |
| • for auxiliary contacts for ring cable lug | 0.8 ... 1.2 N·m |
| outer diameter of the usable ring cable lug maximum | 7.5 mm |
| design of screwdriver shaft | Diameter 5 ... 6 mm |
| size of the screwdriver tip | Pozidriv PZ 2 |
| design of the thread of the connection screw | |
| • for main contacts | M4 |

• of the auxiliary and control contacts

M3

Safety related data

| | |
|-------------------------------------------------------------------------|---------|
| failure rate [FIT] with low demand rate according to SN 31920 | 50 FIT |
| MTTF with high demand rate | 2 280 y |
| T1 value for proof test interval or service life according to IEC 61508 | 20 y |
| protection class IP on the front according to IEC 60529 | IP00 |

Display

| | |
|--------------------------------------|--------------|
| display version for switching status | Slide switch |
|--------------------------------------|--------------|

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

[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=3RU2126-4CJ0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-4CJ0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CJ0>

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

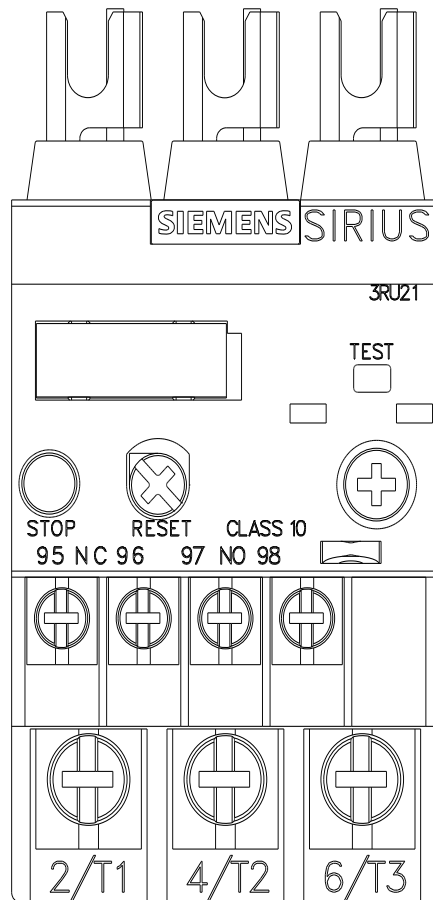
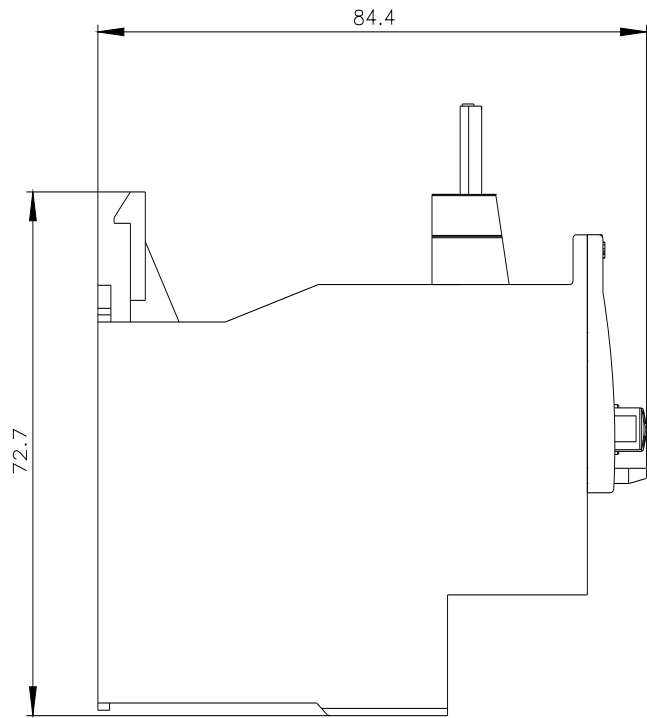
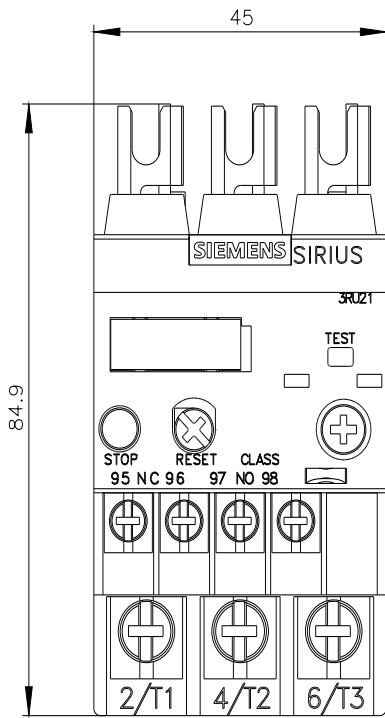
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-4CJ0&lang=en

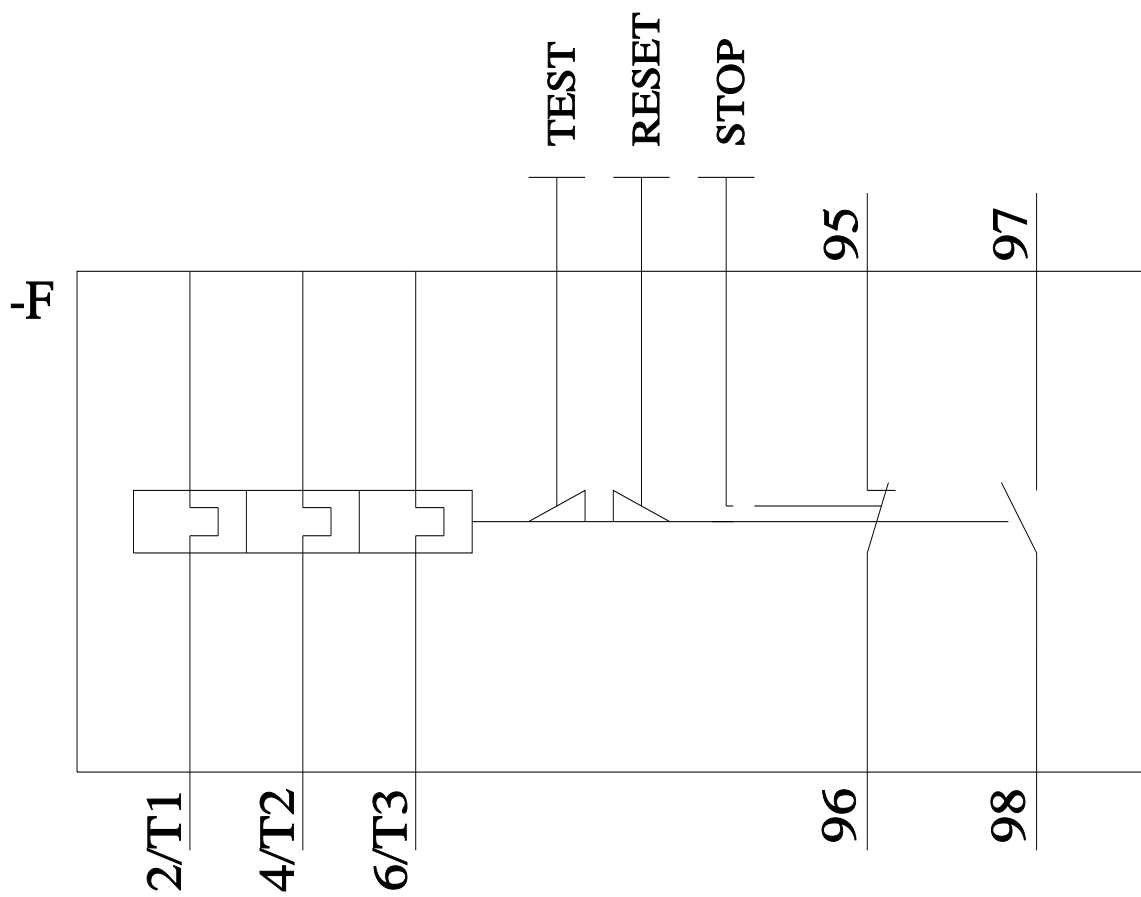
Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-4CJ0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4CJ0&objecttype=14&gridview=view1>





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