



Overload relay 3.5...5.0 A size S00, class 10, for motor protection for mounting onto contactors main circuit: screw terminal AUX. circuit: screw terminal manual automatic reset

| | |
|--|------------------------|
| product brand name | SIRIUS |
| product designation | Thermal overload relay |
| product type designation | 3RU6 |
| General technical data | |
| size of contactor can be combined company-specific | S00 |
| power loss [W] total typical | 6.1 W |
| power loss [W] for rated value of the current at AC in hot operating state | 6.6 W |
| • per pole | 2.2 W |
| type of calculation of power loss current-dependent | quadratic |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | 8 g / 11 ms |
| Substance Prohibitance (day/month/year) | 05/01/2012 |
| Net Weight | 0.13 kg |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| • during operation | -40 ... +70 °C |
| • during transport | -55 ... +80 °C |
| relative humidity during operation | 0 ... 90 % |
| Main circuit | |
| number of poles for main current circuit | 3 |
| adjustable current response value current of the current-dependent overload release | 3.5 ... 5 A |
| operating voltage rated value | 690 V |
| operating frequency rated value | 50 ... 60 Hz |
| operational current rated value | 5 A |
| Auxiliary circuit | |
| operational current of auxiliary contacts at AC-15 | |
| • at 24 V | 3 A |
| • at 230 V | 2 A |
| operational current of auxiliary contacts at DC-13 | |
| • at 24 V | 2 A |
| • at 110 V | 0.22 A |
| Protective and monitoring functions | |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| Installation/ mounting/ dimensions | |

| | |
|---|---------------------|
| mounting position | any |
| fastening method | Contacteur mounting |
| height | 76 mm |
| width | 45 mm |
| depth | 70 mm |
| required spacing for grounded parts at the side | 6 mm |

Connections/ Terminals

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|--|--|
| type of electrical connection <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit | screw-type terminals screw-type 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 | 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x 4 mm ² 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14) |
| tightening torque for main contacts with screw-type terminals | 0.8 ... 1.2 N·m |

Electrical Safety

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|--|--|
| 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 |

Approvals Certificates

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|---------------------------------|-----------------------------|--------------|
| General Product Approval | Maritime application | other |
|---------------------------------|-----------------------------|--------------|



[CCS \(China Classification Society\)](#)

[Confirmation](#)

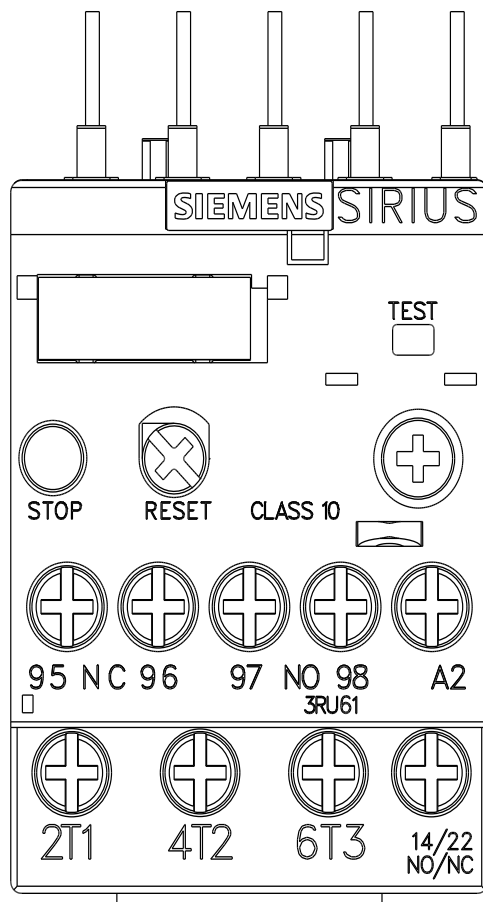
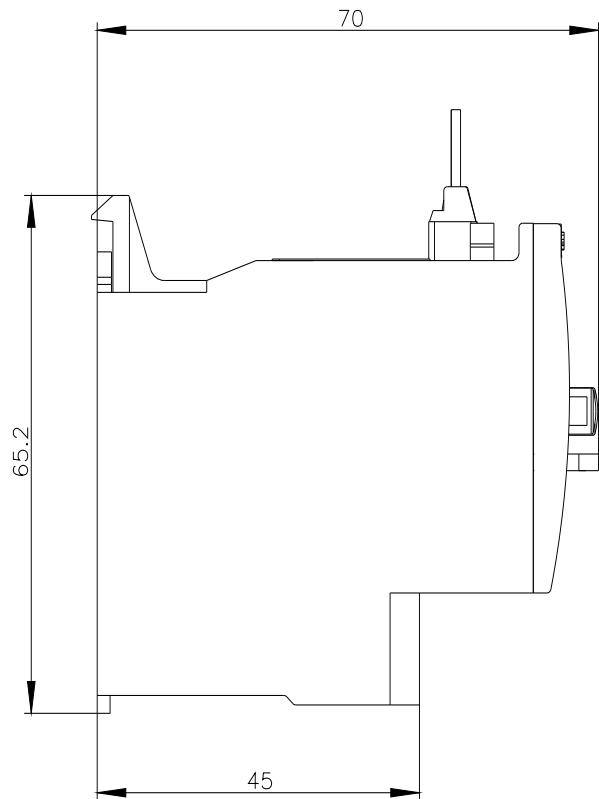
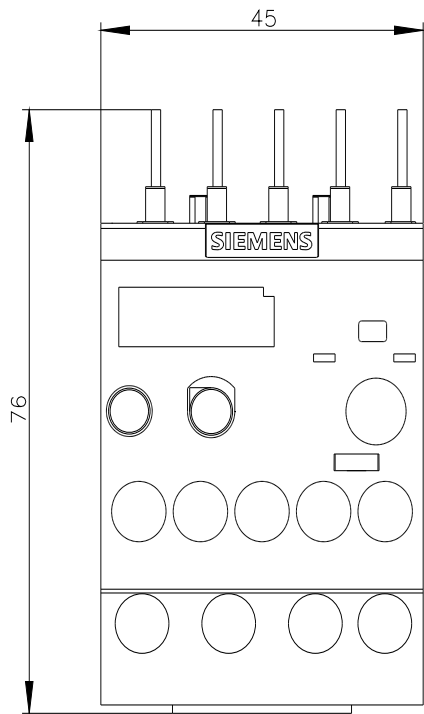
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| other | Environment |
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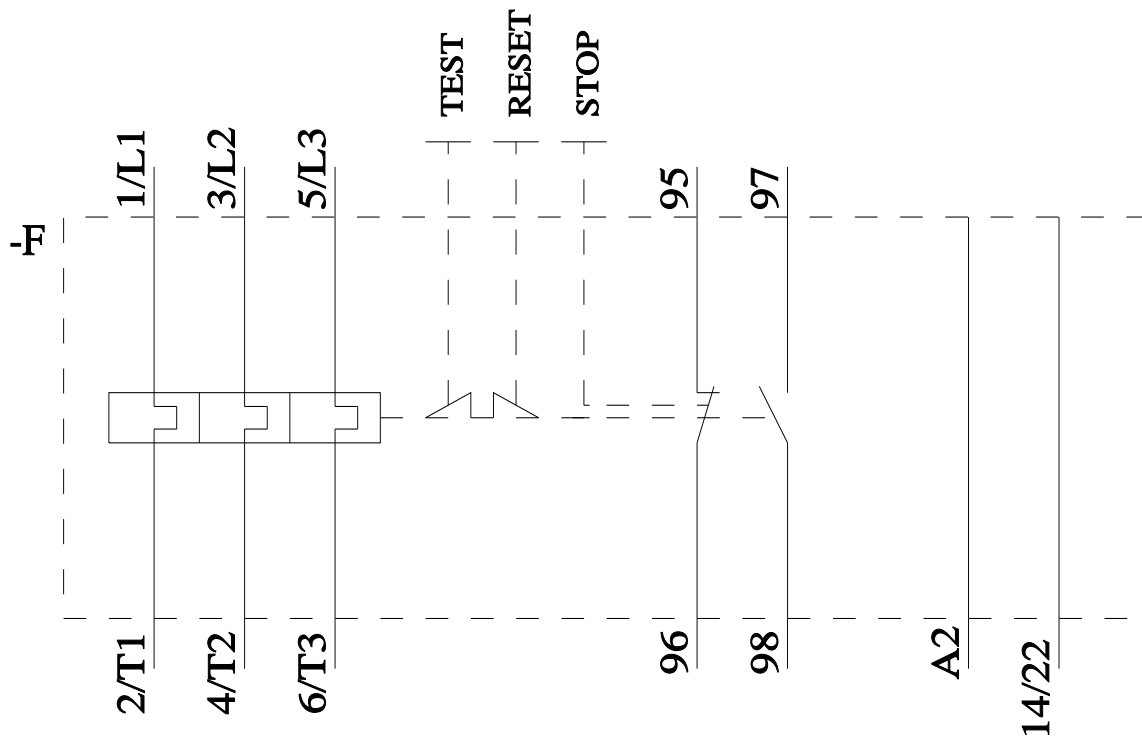


[Environmental Conformations](#)

Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
<https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN>





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