SIEMENS

Data sheet 3RU2126-1GB0



Overload relay 4.5...6.3 A Thermal For motor protection Size S0, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw 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 | 6.6 W |
| • per pole | 2.2 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 | |
| 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 |
| 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 acc. to IEC 81346-2 | F |
| Substance Prohibitance (Date) | 01.10.2009 00:00:00 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -40 +70 °C |
| during storage | -55 +80 °C |
| 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 | 4.5 6.3 A |
| operating voltage | |
| rated value | 690 V |

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| at AC-3 rated value maximum | 690 V |
|---|--|
| operating frequency rated value | 50 60 Hz |
| operational current rated value | 6.3 A |
| operating power at AC-3 | |
| at 400 V rated value | 2.2 kW |
| • at 500 V rated value | 3 kW |
| • at 690 V rated value | 4 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 | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value | 6.3 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value | 6.3 A 6.3 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch | 6.3 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required | 6.3 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions | 6.3 A fuse gG: 6 A, quick: 10 A |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position | 6.3 A fuse gG: 6 A, quick: 10 A any |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method | 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height | fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width | fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm |
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| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit | fuse gG: 6 A, quick: 10 A any Contactor mounting 85 mm 45 mm 85 mm No No |
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| type of connectable conductor cross-sections | |
|--|--|
| for auxiliary contacts | |
| — solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| at AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| tightening torque | |
| for main contacts with screw-type terminals | 2 2.5 N·m |
| for auxiliary contacts with screw-type terminals | 0.8 1.2 N·m |
| 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 acc. to SN 31920 | 50 FIT |
| MTTF with high demand rate | 2 280 y |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y |
| protection class IP on the front acc. to IEC 60529 | IP20 |
| touch protection on the front acc. to IEC 60529 | finger-safe, for vertical contact from the front |
| Display | |
| display version for switching status | Slide switch |
| Certificates/ approvals | |
| General Product Approval | For use in hazardous locations |













Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Type Test
Certific-ates/Test
Report

Special Test Certific-ate





Marine / Shipping

other









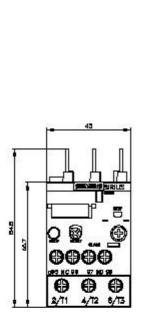


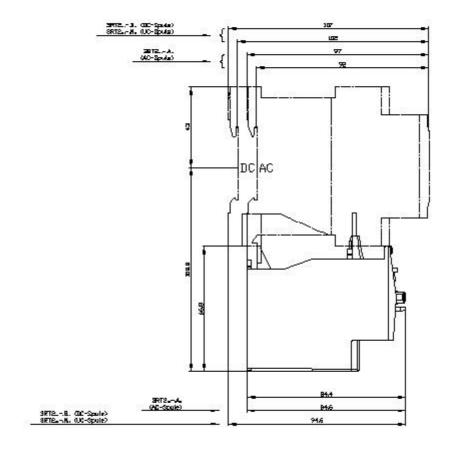
Confirmation

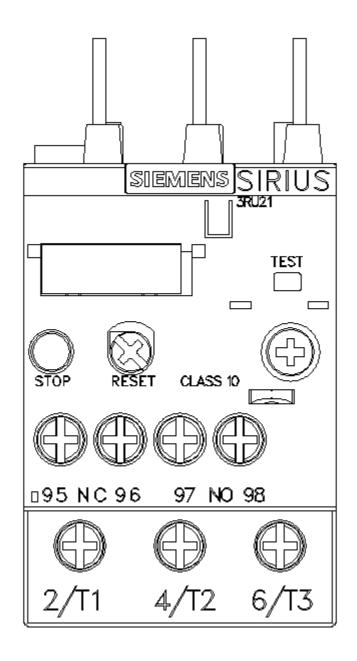
Railway

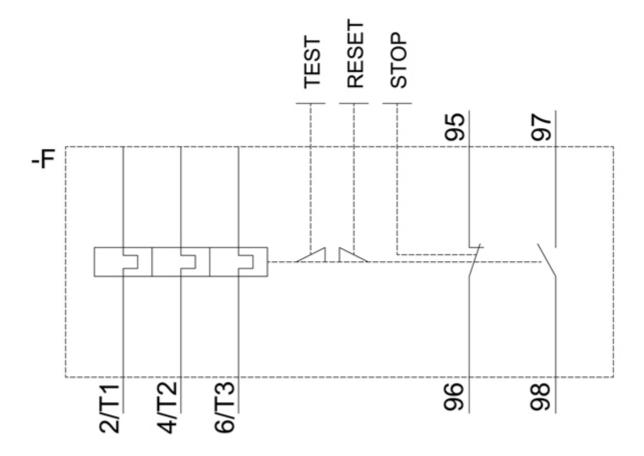
Vibration and Shock

Further information









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