SIEMENS

Data sheet

3RU2126-1DB0



Overload relay 2.2...3.2 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 | 5.7 W |
| • per pole | 1.9 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 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 | |
| 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 | 2.2 3.2 A |
| operating voltage | |
| rated value | 690 V |
| at AC-3e rated value maximum | 690 V |
| operating frequency rated value | 50 60 Hz |

| operational current rated value | 3.2 A |
|---|---|
| operational current at AC-3e at 400 V rated value | 3.2 A |
| operating power | |
| • at AC-3 | |
| - at 400 V rated value | 1.1 kW |
| — at 500 V rated value | 1.5 kW |
| — at 690 V rated value | 2.2 kW |
| • at AC-3e | Z.Z NVV |
| - at 400 V rated value | 1.1 kW |
| — at 500 V rated value | 1.5 kW |
| — at 690 V rated value | 2.2 kW |
| | Z.Z KVV |
| Auxiliary circuit | internated |
| design of the auxiliary switch | integrated |
| number of NC contacts for auxiliary contacts | 1 for contactor disconnection |
| note | for contactor disconnection |
| number of NO contacts for auxiliary contacts | |
| note | for message "Tripped" |
| number of CO contacts for auxiliary contacts | 0 |
| operational current of auxiliary contacts at AC-15 | 2.4 |
| • 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 | 3.2 A |
| at 600 V rated value | 3.2 A |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the auxiliary switch | fuse gG: 6 A, quick: 10 A |
| required | |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | Contactor mounting |
| height | 85 mm |
| | 45 |
| width | 45 mm |
| depth | 45 mm 85 mm |
| | |
| depth Connections/ Terminals product component removable terminal for auxiliary | |
| depth Connections/ Terminals | 85 mm |
| depth Connections/ Terminals product component removable terminal for auxiliary | 85 mm |
| depth Connections/ Terminals product component removable terminal for auxiliary and control circuit | 85 mm |
| depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection | 85 mm No |
| depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit | 85 mm No screw-type terminals |
| depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit | 85 mm No screw-type terminals screw-type terminals |
| depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections | 85 mm No screw-type terminals screw-type terminals |
| depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit | 85 mm No screw-type terminals screw-type terminals |

| finely stranded with core end processing at AWG cables for main contacts | | • | 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² 2x (16 12), 2x (14 8) | | | |
|---|---|-------------------|--|---|-------------------------------------|--|
| type of connectable conductor cross-sections | | | X (10 12), 2X (14 0) | | | |
| | | 15 | | | | |
| for auxiliary contacts — solid or stranded | | | | 0.5 | | |
| | | | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) | | | |
| finely stranded with core end processing at AWC applies for suviliant contacts | | • | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) | | | |
| at AWG cables for auxiliary contacts | | | x (20 16), 2x (18 14) | | | |
| tightening torque | | | | | | |
| for main contacts with screw-type terminals | | | 2.5 N·m | | | |
| for auxiliary contacts with screw-type terminals | | ninals 0 | 0.8 1.2 N·m | | | |
| design of screwdriver shaft | | D | Diameter 5 6 mm | | | |
| size of the screwdriver tip | | Р | Pozidriv PZ 2 | | | |
| design of the thread of the connection screw | | | | | | |
| for main contacts | | | 14 | | | |
| of the auxiliary | and control contacts | N | 13 | | | |
| Safety related data | | | | | | |
| | low demand rate according | a to SN 5 | 0 FIT | | | |
| 31920 | | y to 314 - 3 | UTII | | | |
| MTTF with high dem | nand rate | 2 | 280 y | | | |
| | t interval or service life acc | | 0 y | | | |
| IEC 61508 | | | >20 | | | |
| 60529 | on the front according to | | -20 | | | |
| | the front according to IE | C 60529 fi | nger-safe, for vertical conta | ct from the front | | |
| Display | | | | | | |
| | N 1 2 4 4 | | | | | |
| display version for sw | - | 5 | lide switch | | | |
| Certificates/ approval | IS | | | | | |
| | | | | | | |
| General Product Ar | oproval | | | | For use in hazard- | |
| General Product Ap | oproval | | | | For use in hazard- ous locations | |
| General Product Ap | | | - | | | |
| General Product Ap | oproval Confirmation | | Ē | rnr | | |
| General Product Ap | | | (l) | FAC | | |
| General Product Ap | | 3 | <u>ل</u> | EAC | | |
| General Product Ap | | 3 | U | EAC | | |
| General Product Ap | | (CCC) | U | EAC | | |
| General Product Ap | Confirmation | | UL UL | EAC | ous locations | |
| SP CM | | ccc | UL Test Certificates | EAC | | |
| For use in hazard- | Confirmation Declaration of Conform | ccc | | EAC | ous locations | |
| For use in hazard- | Confirmation Declaration of Conform | ccc nity | Special Test Certific- | Type Test Certific- | ous locations | |
| For use in hazard- | Confirmation | ccc nity CE | | Type Test Certific- ates/Test Report | ous locations | |
| For use in hazard- | Confirmation Declaration of Conform | ccc nity | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform | CE | Special Test Certific- | | ous locations | |
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| For use in hazard- ous locations | Confirmation Declaration of Conform | CE | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform | EG-Konf. | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform | CE | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform | EG-Konf. | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform | EG-Konf. | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform | EG-Konf. | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform UCA Confirmation | EG-Konf. | Special Test Certific- | | ous locations | |
| For use in hazard- ous locations | Confirmation Declaration of Conform | EG-Konf. | Special Test Certific- | | ous locations | |

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=3RU2126-1DB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2126-1DB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1DB0

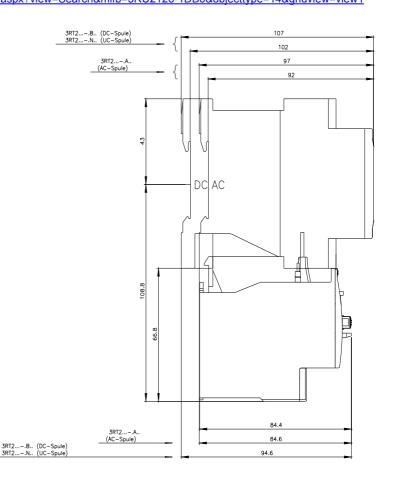
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2126-1DB0&lang=en</u>

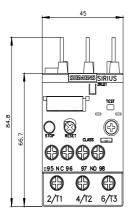
Characteristic: Tripping characteristics, I²t, Let-through current

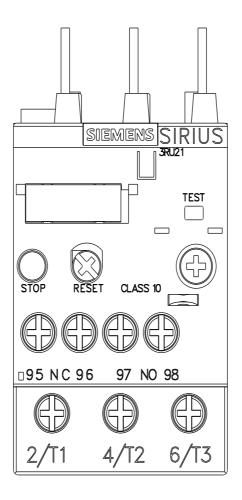
https://support.industry.siemens.com/cs/ww/en/ps/3RU2126-1DB0/char

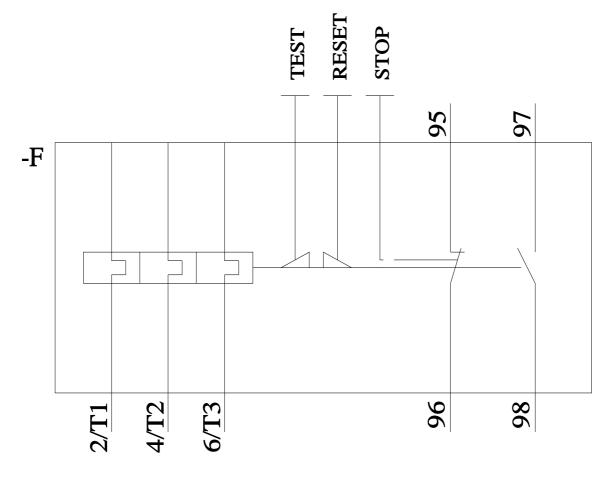
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-1DB0&objecttype=14&gridview=view1









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