SIEMENS

Data sheet 3RU2136-4RB0



Overload relay 70...80 A Thermal For motor protection Size S2, Class 10A 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 | S2 |
| size of contactor can be combined company-specific | S2 |
| power loss [W] for rated value of the current at AC in hot operating state | 18.9 W |
| • per pole | 6.3 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 | 415 V |
| between auxiliary and auxiliary circuit | 415 V |
| between main and auxiliary circuit | 690 V |
| between main and auxiliary circuit | 690 V |
| shock resistance acc. to IEC 60068-2-27 | 8g / 11 ms |
| recovery time after overload trip | |
| with automatic reset typical | 10 min |
| with remote-reset | 10 min |
| with manual reset | 10 min |
| 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) | 15.10.2014 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 | 70 80 A | | |
|--|---|--|--|
| operating voltage | | | |
| rated value | 690 V | | |
| at AC-3 rated value maximum | 690 V | | |
| operating frequency rated value | 50 60 Hz | | |
| operational current rated value | 80 A | | |
| 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 | | |
| design of the miniature circuit breaker for short-circuit | 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) | | |
| protection of the auxiliary switch required | | | |
| contact rating of auxiliary contacts according to UL | B600 / R300 | | |
| Protective and monitoring functions | | | |
| trip class | CLASS 10A | | |
| design of the overload release | thermal | | |
| UL/CSA ratings | | | |
| full-load current (FLA) for 3-phase AC motor | | | |
| at 480 V rated value | 80 A | | |
| at 600 V rated value | 80 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 | | | |
| mounting position | any | | |
| fastening method | Contactor mounting | | |
| height | 90 mm | | |
| width | 55 mm | | |
| depth | 105 mm | | |
| Connections/ Terminals | | | |
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| | No | | |
| product function removable terminal for auxiliary and control circuit | No | | |
| product function removable terminal for auxiliary and | No | | |
| product function removable terminal for auxiliary and control circuit | No screw-type terminals | | |
| product function removable terminal for auxiliary and control circuit type of electrical connection | | | |
| product function removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit | screw-type terminals | | |
| product function 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 | screw-type terminals screw-type terminals | | |
| product function 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 | screw-type terminals screw-type terminals | | |
| product function 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 | screw-type terminals screw-type terminals Top and bottom | | |
| product function removable terminal for auxiliary and control circuit type of electrical connection | screw-type terminals screw-type terminals | | |

| at AWG cables for main contacts | 2x (18 2), 1x (18 1) | | |
|--|--|--------------------------------|--|
| 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 | 3 4.5 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 | M6 | | |
| of the auxiliary and control contacts | M3 | | |
| Safety related data | | | |
| 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

Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

Railway

Special Test Certificate

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=3RU2136-4RB0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RU2136-4RB0}$

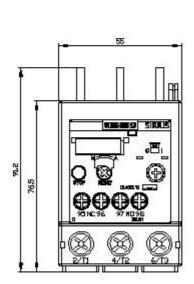
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RB0

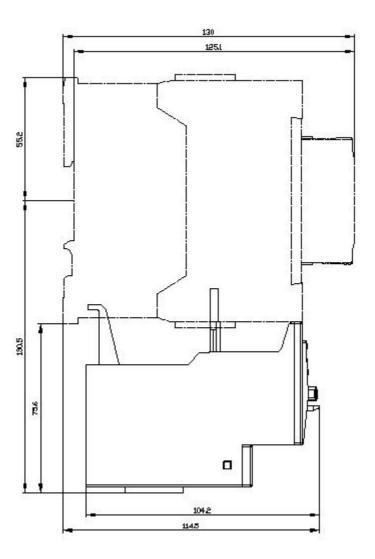
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4RB0&lang=en

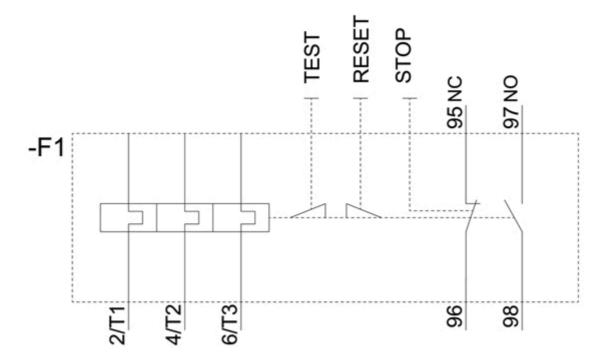
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4RB0&objecttype=14&gridview=view1







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