SIEMENS

## Data sheet 3RU2136-4JD0




Overload relay 54...65 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: spring-type terminal 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 | 15.6 W |
| ● per pole | 5.2 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 | 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 |
| ● ambient temperature during storage | -55 ... +80 °C |
| ● ambient temperature 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 |


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| **adjustable current response value current of the current-dependent overload release** | 54 ... 65 A |
| ● operating voltage rated value | 690 V |
| ● operating voltage at AC-3 rated value maximum | 690 V |
| **operating frequency rated value** | 50 ... 60 Hz |
| **operational current rated value** | 65 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 protection of the auxiliary switch required | 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) |
| **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 | 65 A |
| ● at 600 V rated value | 65 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** | |
| product function removable terminal for auxiliary and control circuit | No |
| **type of electrical connection** | |
| ● for main current circuit | screw-type terminals |
| ● for auxiliary and control circuit | spring-loaded terminals |
| **arrangement of electrical connectors for main current circuit** | Top and bottom |
| **type of connectable conductor cross-sections** | |
| ● for main contacts | |
| — solid or stranded | 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) |
| — finely stranded with core end processing | 2x (1 ... 25 mm²), 1x (1 ... 35 mm²) |


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| | |
|---|---|
| ● 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 ... 2.5 mm²) |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm²) |
| — finely stranded without core end processing | 2x (0.5 ... 2.5 mm²) |
| ● at AWG cables for auxiliary contacts | 2x (20 ... 14) |
| ● tightening torque for main contacts with screw-type terminals | 3 ... 4.5 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 |
| **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**

CSA CCC UL EAC ATEX IECEx

**Declaration of Conformity** | **Test Certificates** | **Marine / Shipping**

Miscellaneous

EG-Konf.

Special Test Certificate

Type Test Certificates/Test Report

ABS BUREAU VERITAS

**Marine / Shipping** | **other**

LRS PRS RINA RMRS DNV·GL

Confirmation

**Railway**

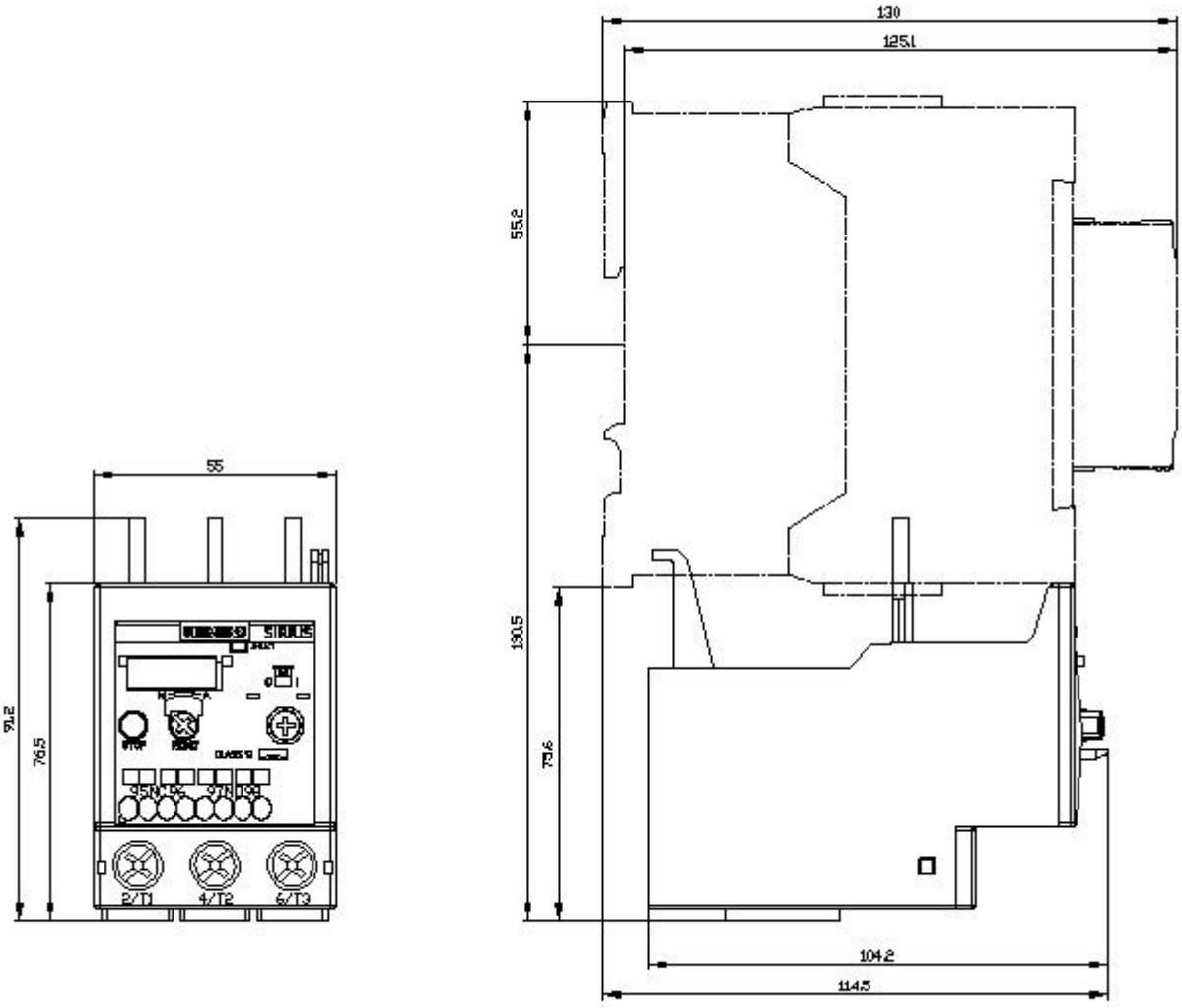
Special Test Certificate

**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=3RU2136-4JD0
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4JD0

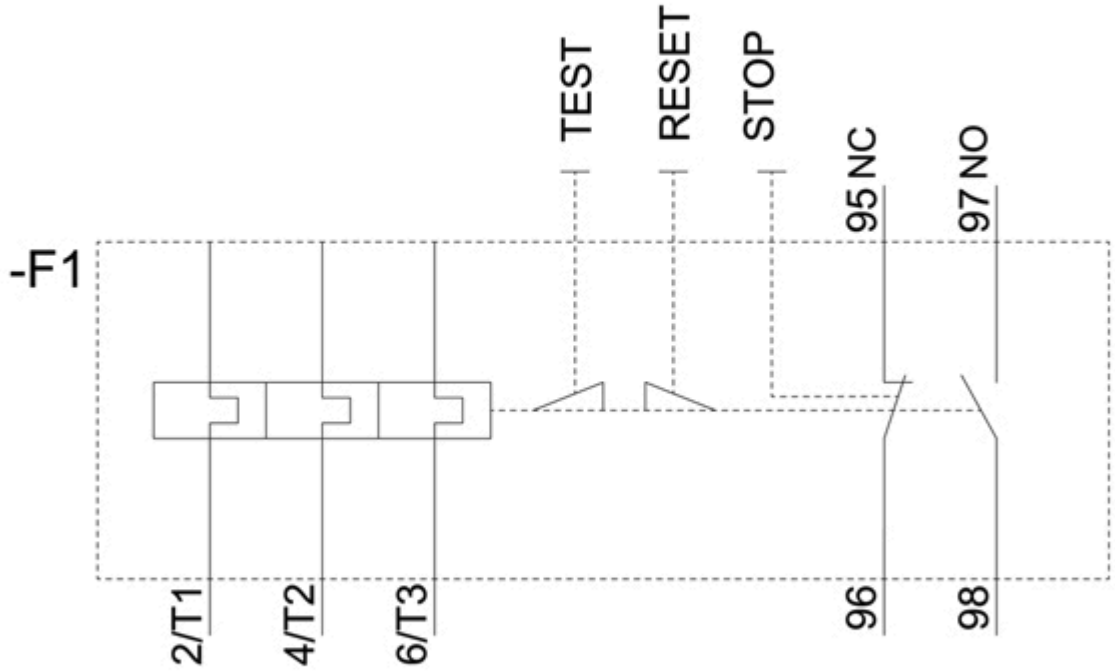

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**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4JD0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4JD0&lang=en
**Characteristic: Tripping characteristics, I²t, Let-through current**
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4JD0/char
**Further characteristics (e.g. electrical endurance, switching frequency)**
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4JD0&objecttype=14&gridview=view1





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