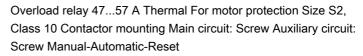
SIEMENS

Data sheet 3RU2136-4QB0





| Product brand name | SIRIUS |
|--------------------------|------------------------|
| Product designation | thermal overload relay |
| Product type designation | 3RU2 |

| 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 |
| • at AC in hot operating state per pole | 5.2 W |
| Insulation voltage with degree of pollution 3 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 |
| in networks with grounded star point between auxiliary and auxiliary circuit | 415 V |
| in networks with grounded star point between main and auxiliary circuit | 690 V |

| in networks with grounded star point between main and auxiliary circuit | 690 V |
|---|-----------------------------|
| Protection class IP | |
| • on the front | IP20 |
| • of the terminal | IP00 |
| Shock resistance | |
| • acc. to IEC 60068-2-27 | 8g / 11 ms |
| Recovery time | |
| after overload trip with automatic reset typical | 10 min |
| after overload trip with remote-reset | 10 min |
| after overload trip 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 DIN EN 81346-2 | F |
| 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 pick-up value current of the current- | 47 57 A |
| dependent overload release | |
| Operating voltage | |
| • rated value | 690 V |
| at AC-3 rated value maximum | 690 V |
| Operating frequency rated value | 50 60 Hz |
| Operating current rated value | 57 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 |

| Operating 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 |
| Operating 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 three-phase AC motor | |
| at 480 V rated value | 57 A |
| ● at 600 V rated value | 57 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 | 1000 get. 071, quiot. 1071 |
| Installation/ mounting/ dimensions | |
| Installation/ mounting/ dimensions Mounting position | any |
| Mounting type | Contactor mounting |
| Height | 90 mm |
| Width | 55 mm |
| Depth | 105 mm |
| Required spacing | |
| with side-by-side mounting | |
| — forwards | 10 mm |
| — Backwards | 0 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| at 110 0100 | |

| • for grounded parts | |
|----------------------|-------|
| — forwards | 10 mm |
| — Backwards | 0 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 10 mm |
| — Backwards | 0 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| | |

| Connections/ Terminals | |
|--|-------------------------------------|
| Product function | |
| removable terminal for auxiliary and control | No |
| circuit | |
| Type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control current circuit | screw-type terminals |
| Arrangement of electrical connectors for main current circuit | Top and bottom |
| Type of connectable conductor cross-sections | |
| • for main contacts | |
| — single or multi-stranded | 2x (1 35 mm²), 1x (1 50 mm²) |
| finely stranded with core end processing | 2x (1 25 mm²), 1x (1 35 mm²) |
| at AWG conductors for main contacts | 2x (18 2), 1x (18 1) |
| Type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — single or multi-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 conductors 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 |

T1 value for proof test interval or service life acc. to IEC 61508

20 y

Display

Display version

• for switching status

Slide switch

Certificates/ approvals

General Product Approval







Miscellaneous









IECEx

Declaration of Conformity

Test Certificates

Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping



other

Marine / Shipping



LRS









Confirmation

Railway

Special Test Certificate

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4QB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4QB0

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

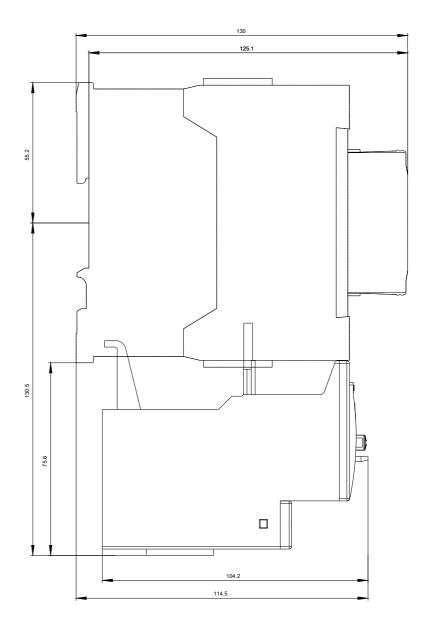
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QB0

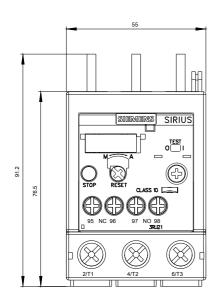
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4QB0&lang=en

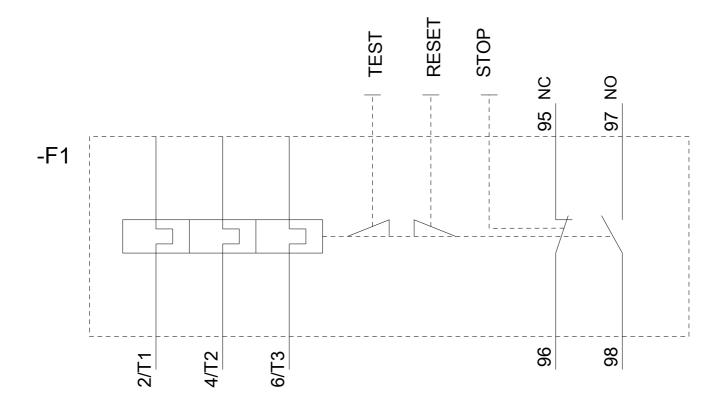
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QB0/cha

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4QB0&objecttype=14&gridview=view1







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