SIEMENS

Data sheet

3RU2136-4FB0



Overload relay 28...40 A Thermal For motor protection Size S2, 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 | 0102 |
| 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 | 15.6 W |
| operating state | |
| • 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 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) | 10/15/2014 |
| 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 | 28 40 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 | 40 A |
| operational current at AC-3e at 400 V rated value | 40 A |
| operating power | |
| • at AC-3 | |
| — at 400 V rated value | 18.5 kW |
| — at 500 V rated value | 22 kW |
| — at 690 V rated value | 37 kW |
| • at AC-3e | |
| — at 400 V rated value | 18.5 kW |
| — at 500 V rated value | 22 kW |
| — at 690 V rated value | 37 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 24 V | 3 A |
| • at 120 V | 3 A |
| • at 125 V | 3 A |
| • at 125 V • at 230 V | 2 A |
| | 2A 1A |
| • at 400 V | |
| operational current of auxiliary contacts at DC-13 | 0.4 |
| • 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 | 40 A |
| • at 600 V rated value | 40 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 |
| | 105 mm |
| depth | |
| Connections/ Terminals product component removable terminal for auxiliary | No |
| and control circuit | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| type of connectable conductor cross-sections | |
| | |

| — finely strar | randed | 2 | 2x (1 35 mm²), 1x (1 50 | mm²) | | | |
|--|---|---------------------------|---|--|-------------------------------------|--|--|
| • | nded with core end proces for main contacts | - | 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) | | | | |
| | conductor cross-section | | ,,,) | | | | |
| for auxiliary cor | ntacts | | | | | | |
| — solid or stranded | | 2 | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | | | |
| finely stranded with core end processing | | sing 2 | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) | | | | |
| at AWG cables for auxiliary contacts | | 2 | 2x (20 16), 2x (18 14) | | | | |
| tightening torque | | | | | | | |
| for main contact | for main contacts with screw-type terminals | | | 3 4.5 N·m | | | |
| for auxiliary contacts with screw-type terminals | | ninals (| 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 | design of the thread of the connection screw | | | | | | |
| for main contact | ets | n | M6 | | | | |
| of the auxiliary | and control contacts | n | VI3 | | | | |
| Safety related data | | | | | | | |
| T1 value for proof tes | t interval or service life acc | cording to 2 | 20 y | | | | |
| IEC 61508 | | 0 | , | | | | |
| 60529 | on the front according to | | P20 | | | | |
| touch protection on | the front according to IE | C 60529 f | inger-safe, for vertical conta | ct from the front | | | |
| Display | | | | | | | |
| display version for sw | vitching status | S | Slide switch | | | | |
| Certificates/ approval | s | | | | | | |
| General Product Ap | oproval | | | | For use in hazard- ous locations | | |
| SP M | | <u>Confirmation</u> | | EHC | ATEX | | |
| For use in hazard- ous locations | Declaration of Conform | nity | Test Certificates | | Marine / Shipping | | |
| IECEx | CE | | Special Test Certific- ate | <u>Type Test Certific-</u> ates/Test Report | Seen all | | |
| IECEx | EG-Konf. | | | | ABS | | |
| IECE× Marine / Shipping | EG-Konf. | | | | ABS | | |
| | EG-Konf. | | | | ABS | | |
| | EG-Konf. | Hoyds Register uts | PRS | RINA | ABS | | |
| Marine / Shipping | <u>Ĵå</u> ⊳nv | Lloyds Kegister uis | PRS | RINA | ABS | | |

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=3RU2136-4FB0 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4FB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4FB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4FB0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4FB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4FB0&objecttype=14&gridview=view1

last modified:

3/8/2022 🖸