SIEMENS

Data sheet

3RU2136-4HD0



Overload relay 40... 50 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 | | | |
| 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 | 40 50 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 | 50 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 ● at 400 V | 2 A 1 A | | |
| operational current of auxiliary contacts at DC-13 | TA | | |
| • 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 10 | | |
| design of the overload release | thermal | | |
| UL/CSA ratings | | | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value | 50 A | | |
| at 600 V rated value | 50 A 50 A | | |
| Short-circuit protection | 50 A | | |
| 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 component 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 | $2x(1 - 35 \text{ mm}^2) + 1x(1 - 50 \text{ mm}^2)$ | | |
| — finely stranded — finely stranded with core end processing | 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) | | |
| 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 mm ²) | | |
| - finely stranded without core end processing | 2x (0.5 2.5 mm ²) | | |
| 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 | d of the connection scr | ew | | | | |
| for main contacts | | | M6 | | | |
| Safety related data | | | | | | |
| T1 value for proof test interval or service life acc. to IEC 61508 | | | 20 у | | | |
| protection class IP on the front acc. to IEC 60529 | | | IP20 | | | |
| touch protection on | the front acc. to IEC 6 | 0529 | finger-safe, for vertical contact from the front | | | |
| Display | | | | | | |
| display version for sw | vitching status | | Slide switch | | | |
| Certificates/ approval | ls | | | | | |
| General Product Approval | | | | For use in hazard | ous locations | |
| Declaration of | | ů. | EHL | ATEX | IECEX | |
| Conformity | Test Certificates | | Marine / Shipping | | | |
| CE EG-Konf. | Special Test Certific- ate | <u>Type Test Certi</u> ates/Test Rep | | BUREAU VERITAS | Lloyds Register uis | |
| Marine / Shipping | | | | other | Railway | |
| PRS | RINA | KMRS RARE | DNV-GL EWISLCORE | <u>Confirmation</u> | <u>Special Test Certific</u> <u>ate</u> | |
| Further information | | | | | | |

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=3RU2136-4HD0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4HD0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HD0

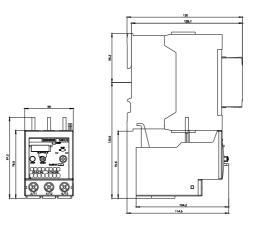
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

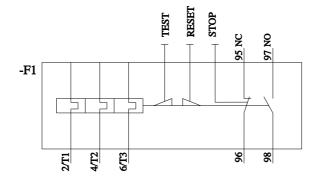
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4HD0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4HD0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4HD0&objecttype=14&gridview=view1





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