SIEMENS

Data sheet

3RU2116-1JC0



Overload relay 7.0...10 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Spring-type terminal 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 | S00 |
| size of contactor can be combined company-specific | S00 |
| power loss [W] for rated value of the current at AC in hot | 6.6 W |
| operating state | |
| • per pole | 2.2 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 protective separation | |
| in networks with ungrounded star point between auxiliary and auxiliary circuit | 440 V |
| in networks with grounded star point between auxiliary and auxiliary circuit | 440 V |
| in networks with ungrounded star point between main and auxiliary circuit | 440 V |
| in networks with grounded star point between main and auxiliary circuit | 440 V |
| shock resistance according to IEC 60068-2-27 | 8g / 11 ms |
| reference code according to IEC 81346-2 | F |
| Substance Prohibitance (Date) | 10/01/2009 |
| SVHC substance name | Lead - 7439-92-1 |
| Weight | 0.18 kg |
| 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 % |
| Environmental footprint | |
| Global Warming Potential [CO2 eq] total | 40 kg |
| Global Warming Potential [CO2 eq] during manufacturing | 1.01 kg |
| global warming potential [CO2 eq] during sales | 0.044 kg |
| Global Warming Potential [CO2 eq] during operation | 39 kg |
| Global Warming Potential [CO2 eq] after end of life | 0.022 kg |
| Main circuit | |
| number of poles for main current circuit | 3 |
| adjustable current response value current of the current- | 7 10 A |

| dependent overland related | |
|---|-----------------------------|
| dependent overload release | |
| 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 | 10 A |
| operational current at AC-3e at 400 V rated value | 10 A |
| operating power | |
| ● at AC-3 | |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 5.5 kW |
| — at 690 V rated value | 7.5 kW |
| • at AC-3e | |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 5.5 kW |
| — at 690 V rated value | 7.5 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 110 V | 3 A |
| • at 120 V | 3 A |
| • at 125 V | 3 A |
| • at 230 V | 2 A |
| • at 400 V | 1A |
| • at 690 V | 0.75 A |
| operational current of auxiliary contacts at DC-13 | 0.13 A |
| • at 24 V | 2 A |
| • at 60 V | 0.3 A |
| • at 100 V | 0.22 A |
| • at 125 V | 0.22 A |
| • at 220 V | 0.12 A |
| contact rating of auxiliary contacts according to UL | |
| Protective and monitoring functions | B0007 K300 |
| | 01.400.40 |
| 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 | 10 A |
| at 600 V rated value | 10 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 | 87 mm |
| width | 45 mm |
| depth | 70 mm |
| Connections/ Terminals | |
| product component removable terminal for auxiliary and control circuit | No |
| type of electrical connection | |
| for main current circuit | spring-loaded terminals |
| for auxiliary and control circuit | spring-loaded terminals |
| arrangement of electrical connectors for main current | Top and bottom |
| ······································ | |

| 14 | | | | | | |
|--|-------------------|--------------------------------------|--|---|---|-----------------------------|
| cuit | | | | | | |
| e of connectable conductor o | cross-sections | | | | | |
| for main contacts | | | | | | |
| — solid or stranded | | | 5 4 mm²) | | | |
| — finely stranded with co | - | - | | 5 2.5 mm²) | | |
| finely stranded without core end processing | | 1x (0.5 2.5 mm²) | | | | |
| for AWG cables for main contacts | | 1x (20 12) | | | | |
| e of connectable conductor of | 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), 2x (0.75 2.5 mm²) | | | | |
| finely stranded without core end processing | | 2x (0.5 1.5 mm²) | | | | |
| for AWG cables for auxiliary contacts design of screwdriver shaft | | 2x (20 14) Diameter 3 mm | | | | |
| | | | | | | size of the screwdriver tip |
| ty related data | | | | | | |
| failure rate [FIT] with low demand rate according to SN 31920 | | 50 FIT | | | | |
| TF with high demand rate | | | 2 280 | а | | |
| C 61508 | | | | | | |
| value | | | | | | |
| for proof test interval or served 61508 | vice life accordi | ng to IEC | 20 a | | | |
| ectrical Safety | | | | | | |
| rotection class IP on the front according to IEC 60529 | | IP20 | | | | |
| ich protection on the front ac | ccording to IEC | 60529 | finger-safe, for vertical contact from the front | | | |
| lay | | | | | | |
| play version for switching status | IS | | Slide | switch | | |
| rovals Certificates | | | | | | |
| | EG-Konf. | <u>Confirmatio</u> | <u>n</u> | UK CA | | EHC |
| r use in hazardous locations | ; | | | Test Certificates | | Marine / Shipping |
| | ECEx IECEx | <u>Miscellaneo</u> | <u>us</u> | <u>Special Test Certific-</u> <u>ate</u> | Type Test Certific- ates/Test Report | ABS |
| arine / Shipping | | | | | | |
| BUREAU VERITAS | | Llovd's Register urs | | PRS | RINA | KARS RARS |
| her | | Railway | | Environment | | |
| Miscellaneous Con | nfirmation | <u>Special Test Ce</u> <u>ate</u> | <u>ertific-</u> | EPD | Environmental Con- firmations | |
| | | <u>ate</u> | | EPD | tirmations | |

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RU2116-1JC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1JC0

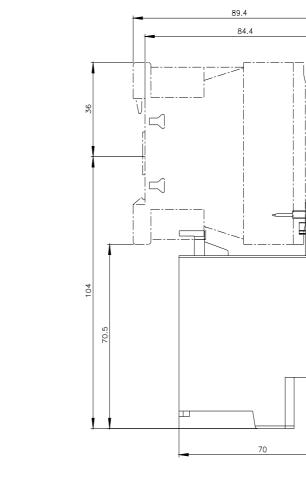
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

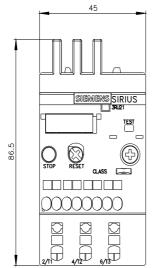
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1JC0

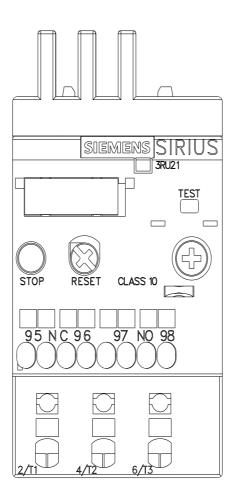
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1JC0&lang=en

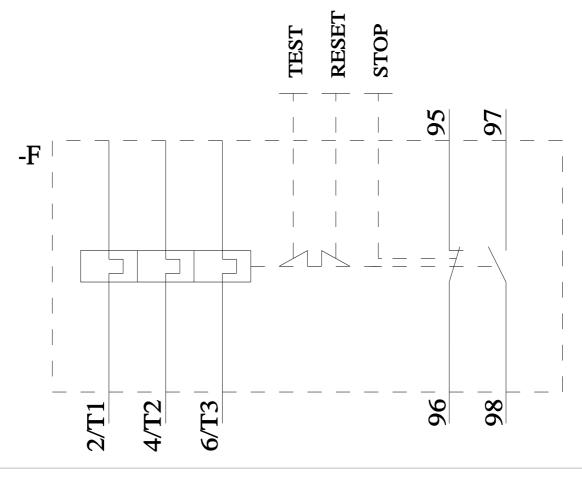
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1JC0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1JC0&objecttype=14&gridview=view1









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