SIEMENS

Data sheet

3RU2116-0HC1



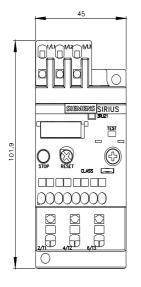
Overload relay 0.55...0.80 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

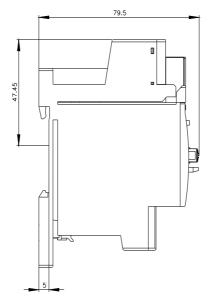
| product brand name | SIRIUS |
|---|------------------------|
| product designation | thermal overload relay |
| product type designation | 3RU2 |
| General technical data | |
| size of overload relay | S00 |
| size of contactor can be combined company-specific | S00 |
| power loss [W] for rated value of the current at AC in hot operating state | 4.8 W |
| • per pole | 1.6 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 grounded star point | |
| between auxiliary and auxiliary circuit | 440 V |
| between auxiliary and auxiliary circuit | 440 V |
| between main and auxiliary circuit | 440 V |
| between main and auxiliary circuit | 440 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) | 10/01/2009 |
| 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 | 0.55 0.8 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 | 0.8 A |
| operational current at AC-3e at 400 V rated value | 0.8 A |
| operating power | |

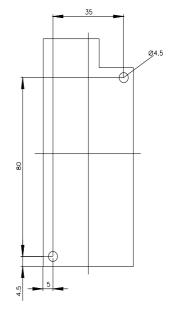
| • at AC-3 | |
|---|---|
| — at 400 V rated value | 0.18 kW |
| — at 500 V rated value | 0.25 kW |
| — at 690 V rated value | 0.37 kW |
| ● at AC-3e | |
| — at 400 V rated value | 0.18 kW |
| — at 500 V rated value | 0.25 kW |
| — at 690 V rated value | 0.37 kW |
| Auxiliary circuit | |
| design of 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 110 V | 3 A |
| • at 120 V | 3 A |
| • at 125 V | 3 A |
| • at 230 V | 2 A |
| • at 200 V | 1A |
| • at 690 V | 0.75 A |
| operational current of auxiliary contacts at DC-13 | |
| • at 24 V | 2 A |
| • at 24 V • at 60 V | 0.3 A |
| | 0.22 A |
| • at 110 V | |
| • at 125 V | 0.22 A |
| • at 220 V | 0.11 A |
| contact rating of auxiliary contacts according to UL | B600 / R300 |
| Ducto sting and manifesting from stings | |
| Protective and monitoring functions | |
| trip class | CLASS 10 |
| trip class design of the overload release | CLASS 10 thermal |
| trip class design of the overload release UL/CSA ratings | |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor | thermal |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value | |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor | thermal |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value | thermal 0.8 A |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value | thermal 0.8 A |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection | thermal 0.8 A |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link | thermal 0.8 A 0.8 A |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required | thermal 0.8 A 0.8 A |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions | thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position | thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method | thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height | thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width | thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth | thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and | thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit | thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit | thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No No spring-loaded terminals |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection | thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit for auxiliary and control circuit | thermal 0.8 A 0.8 A 0.8 A 1. fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No No spring-loaded terminals spring-loaded terminals |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection for main current circuit for auxiliary and control circuit | thermal 0.8 A 0.8 A 0.8 A 1. fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No No spring-loaded terminals spring-loaded terminals |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection | thermal 0.8 A 0.8 A 0.8 A 1.8 A 1.8 A 1.9 fuse gG: 6 A, quick: 10 A 1.0 any stand-alone installation 1.0 2 mm 45 mm 79 mm 79 mm No No spring-loaded terminals spring-loaded terminals Top and bottom |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value short-circuit protection design of the fuse link of or short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit of or main current circuit of or auxiliary and control circuit arrangement of electrical connectors for main current circuit upper of connectable conductor cross-sections of or main contacts - solid or stranded | thermal 0.8 A 0.8 A 0.8 A 0.8 A 1.8 |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection ofor auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of romain contacts — solid or stranded — finely stranded with core end processing | thermal 0.8 A 0.8 A 0.8 A 1.5 fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No No spring-loaded terminals spring-loaded terminals Top and bottom 1x (0,5 4 mm²) 1x (0.5 2.5 mm²) |
| trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection of or auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of or stranded — solid or stranded — finely stranded with core end processing — finely stranded without core end processing | thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm No spring-loaded terminals spring-loaded terminals Top and bottom 1x (0,5 4 mm²) 1x (0.5 2.5 mm²) 1x (0.5 2.5 mm²) |
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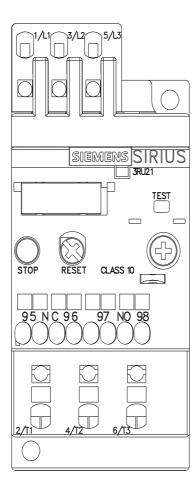
| finely strand for AWG cables it design of screwdriver size of the screwdriver size of the screwdriver Safety related data failure rate [FIT] with low MTTF with high demai T1 value for proof test it 61508 protection class IP on touch protection on the Display display version for swite Certificates/ approvals | Inded ded with core end proces ded without core end proces for auxiliary contacts shaft r tip w demand rate according nd rate Interval or service life accord the front according to IE ching status | to SN 31920 ording to IEC IEC 60529 | 2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2x (0.5 1.5 mm ²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm 50 FIT 2 280 a 20 a IP20 finger-safe, for vertical conta | | | |
|--|--|---|--|----------------------|---------------------|--|
| General Product Approved the second s | | (U) UL | EAC | For use in hazardous | | |
| Declaration of Confor | mity | Test Certificat | 05 | Marine / Shipping | | |
| Declaration of Confor | mity | Test Certificat | es | Marine / Shipping | | |
| UK CA | C C EG-Konf. | <u>Type Test Cer</u> ates/Test Rep | | ABS | BUREAU VERITAS | |
| Marine / Shipping | | | | | other | |
| | Hoyd's Kegister us | PRS | RINA | RMRS RMRS | <u>Confirmation</u> | |
| other | Railway | | | | | |
| VDE | Vibration and Shock | | | | | |
| Further information | | | | | | |
| Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). | | | | | | |
| 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=3RU2116-0HC1 | | | | | | |
| Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0HC1 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HC1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0HC1⟨=en | | | | | | |
| Characteristic: Tripping characteristics, I ² t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HC1/char | | | | | | |

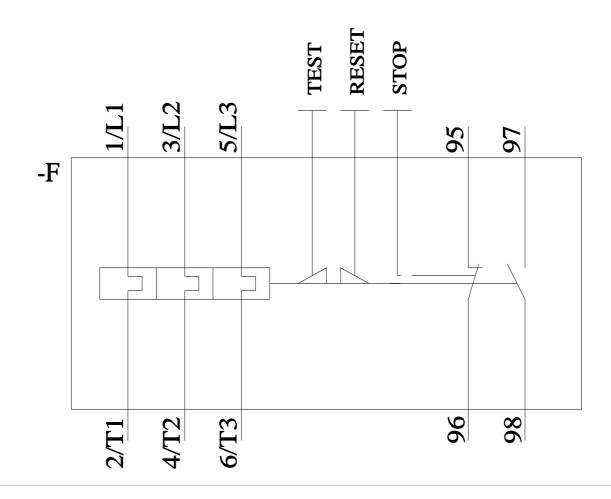
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0HC1&objecttype=14&gridview=view1











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