SIEMENS

Data sheet 3RF2990-0GA13



LOAD MONITORING CURRENT RANGE 90 A 40 DEGREES C 110-230 V / 24 V AC/DC TO SEMICON. RELAY/CONTACT. 3RF2

Figure similar

| General technical data: | | |
|---|----|--|
| product brand name | | SIRIUS |
| Product designation | | load monitoring |
| Product function | | solid-state relay / solid-state contactor 3RF2 |
| Number of poles for main current circuit | | 0 |
| Protection class IP | | IP20 |
| Product designation _1 of the accessories that can be ordered | | sealable end cover |
| Manufacturer article number _1 of the accessories that can be ordered | | 3RF2900-0RA88 |
| Hole diameter of the current transformer | mm | 17 |
| Number of partial loads for load monitoring | | 12 |
| Ambient temperature | | |
| during operation | °C | -25 + 60 |
| during storage | °C | -55 + 80 |
| Installation altitude at height above sea level | m | 1 000 |
| maximum | | |
| Vibration resistance acc. to IEC 60068-2-6 | | 2g |
| Shock resistance acc. to IEC 60068-2-27 | | 15g / 11 ms |
| Equipment marking acc. to DIN 40719 extended | | Α |
| according to IEC 204-2 acc. to IEC 750 | | |
| Equipment marking acc. to DIN EN 61346-2 | | В |
| Main circuit: | | |
| Number of NO contacts for main contacts | | 0 |
| Number of NC contacts for main contacts | | 0 |
| Operating current | | |

| • at AC-1 at 400 V Rated value | Α | 90 |
|--|----|----------|
| Derating temperature | °C | 40 |
| Operating voltage with AC | | |
| • at 50 Hz Rated value | V | 110 230 |
| • at 60 Hz Rated value | V | 110 230 |
| Operating range relative to the operating voltage with | | |
| AC | | |
| ● at 50 Hz | V | 93.5 253 |
| ● at 60 Hz | V | 93.5 253 |
| Operating frequency Rated value | Hz | 50 60 |
| Relative symmetrical tolerance of the operating | % | 10 |
| frequency | | |
| Insulation voltage Rated value | V | 600 |
| Compensation of the supply voltage fluctuations | % | 20 |
| Partial load for load monitoring | Α | 2.9 |
| Current measuring range | Α | 0 99 |

| Control circuit/ Control: | | |
|--|----|-------|
| Type of voltage | | AC/DC |
| Control supply voltage | | |
| • for DC | | |
| — Rated value | V | 24 24 |
| — Full-scale value for signal<0> recognition | V | 15 |
| • with AC | | |
| — at 50 Hz | | |
| — Rated value | V | 24 24 |
| — Full-scale value for signal<0> recognition | V | 14 |
| — at 60 Hz | | |
| — Rated value | V | 24 24 |
| — Full-scale value for signal<0> recognition | V | 14 |
| Supply voltage frequency for auxiliary and control current circuit Rated value | Hz | 50 60 |
| Symmetrical line frequency tolerance | Hz | 5 |
| Relative symmetrical tolerance of the supply voltage frequency | % | 10 |
| Control current | | |
| with AC Rated value | mA | 40 |
| • for DC Rated value | mA | 40 |
| Response delay | S | 0.1 3 |

| Auxiliary circuit: | |
|--|---|
| Number of NC contacts for auxiliary contacts | 1 |

| | 1 |
|----|---------|
| | 1 |
| | |
| V | 15 30 |
| V | 15 30 |
| | |
| mA | 5 1 000 |
| mA | 5 1 000 |
| | V mA |

| Installation/ mounting/ dimensions: | | |
|-------------------------------------|----|---------|
| Mounting type | | clip-on |
| Mounting type Side-by-side mounting | | Yes |
| Width | mm | 45 |
| Height | mm | 111.5 |
| Depth | mm | 69.5 |

| Connections/ Terminals: | | |
|--|--------|------------------------------------|
| Type of electrical connection | | |
| for auxiliary and control current circuit | | screw-type terminals |
| Design of the thread of the connection screw of the | | M3 |
| auxiliary and control contacts | | |
| Type of connectable conductor cross-section | | |
| for auxiliary and control contacts | | |
| — solid | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| — finely stranded | | |
| — with core end processing | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| — without core end processing | | 1x (0.5 2.5 mm²), 2x (0.5 1.0 mm²) |
| for AWG conductors for auxiliary and control | | 1x (AWG 20 12) |
| contacts | | |
| Connectable conductor cross-section for auxiliary | | |
| and control contacts | | |
| • solid | mm² | 0.5 2.5 |
| • finely stranded | | |
| — with core end processing | mm² | 0.5 2.5 |
| — without core end processing | mm² | 0.5 2.5 |
| AWG number as coded connectable conductor cross | | 12 20 |
| section for auxiliary and control contacts | | |
| Wire stripping length of the cable for auxiliary and | mm | 7 |
| control contacts | | |
| Tightening torque for auxiliary and control contacts | N·m | 0.5 0.6 |
| with screw-type terminals | | |
| Tightening torque [lbf-in] for auxiliary and control | lbf∙in | 4.5 5.3 |
| contacts with screw-type terminals | | |

Certificates/ approvals:

EMC General Product Approval Declaration of Test Conformity Certificates











Type Test Certificates/Test Report

other

Environmental Confirmations

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF29900GA13

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

http://support.automation.siemens.com/WW/view/en/3RF29900GA13/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF29900GA13&lang=en



