

Heat current monitoring Current range 32 A / 40 °C 400-600 V / 24 V AC/DC for semiconductor relay / contactor
Remote teach/without control connector



| General technical data | | |
|---|----|--|
| Product brand name | | SIRIUS |
| Product designation | | heating current 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's 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 | | 6 |
| Ambient temperature | | |
| • during operation | °C | -25 ... +60 |
| • during storage | °C | -55 ... +80 |
| Installation altitude at height above sea level maximum | m | 1 000 |
| Vibration resistance acc. to IEC 60068-2-6 | | 2g |
| Shock resistance acc. to IEC 60068-2-27 | | 15g / 11 ms |

| | | |
|--|--|---|
| Reference identifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | | A |
| Reference identifier acc. to DIN EN 61346-2 | | B |

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 | A | 32 |
| Derating temperature | °C | 40 |
| Operating voltage at AC | | |
| • at 50 Hz rated value | V | 400 ... 600 |
| • at 60 Hz rated value | V | 400 ... 600 |
| Operating range relative to the operating voltage at AC | | |
| • at 50 Hz | V | 340 ... 660 |
| • at 60 Hz | V | 340 ... 660 |
| Operating frequency rated value | Hz | 50 ... 60 |
| Relative symmetrical tolerance of the operating frequency | % | 10 |
| Insulation voltage rated value | V | 600 |
| Compensation of the supply voltage fluctuations | % | 20 |
| Partial load for load monitoring | A | 0.8 |
| Teach range current | A | 0.8 ... 32 |
| Current measuring range | A | 0 ... 32 |

Control circuit/ Control

| | | |
|--|----|---------------|
| Type of voltage | | AC/DC |
| Control supply voltage | | |
| • at DC | | |
| — rated value | V | 18 ... 30 |
| — Full-scale value for signal<0> recognition | V | 5 |
| • at AC | | |
| — at 50 Hz | | |
| — rated value | V | 20.5 ... 26.5 |
| — Full-scale value for signal<0> recognition | V | 5 |
| — at 60 Hz | | |
| — rated value | V | 20.5 ... 26.5 |
| — Full-scale value for signal<0> recognition | V | 5 |
| 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 | | |
| • at AC rated value | mA | 40 |
| • at DC rated value | mA | 40 |
| Response delay | s | 0.1 ... 3 |

Auxiliary circuit

| | | |
|---|----|-------------|
| Number of NC contacts for auxiliary contacts | | 1 |
| Number of NO contacts for auxiliary contacts | | 0 |
| Number of CO contacts for auxiliary contacts | | 0 |
| Operating voltage of auxiliary contacts | | |
| • at AC | V | 15 ... 30 |
| • at DC | V | 15 ... 30 |
| Operating current of auxiliary contacts | | |
| • at AC | mA | 5 ... 1 000 |
| • at DC | mA | 5 ... 1 000 |

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 auxiliary and control contacts | | M3 |
| Type of connectable conductor cross-sections | | |
| • for auxiliary and control contacts | | |
| — solid | | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²) |
| — finely stranded | | |
| — with core end processing | | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²) |
| — without core end processing | | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.0 mm ²) |
| • at AWG conductors for auxiliary and control contacts | | 1x (AWG 20 ... 12) |
| Connectable conductor cross-section for auxiliary and control contacts | | |
| • solid | mm ² | 0.5 ... 2.5 |
| • finely stranded | | |
| — with core end processing | mm ² | 0.5 ... 2.5 |
| — without core end processing | mm ² | 0.5 ... 2.5 |

| | | |
|--|--------|-------------|
| AWG number as coded connectable conductor cross section for auxiliary and control contacts | | 12 ... 20 |
| Wire stripping length of the cable for auxiliary and control contacts | mm | 7 |
| Tightening torque for auxiliary and control contacts with screw-type terminals | N·m | 0.5 ... 0.6 |
| Tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals | lbf·in | 4.5 ... 5.3 |

Certificates/approvals

| General Product Approval | EMC | Declaration of Conformity | Test Certificates |
|--|---|---|---|
|  CSA |  UL |  EAC |  C-Tick |
| | |  EG-Konf. | Type Test Certificates/Test Report |

other

[Confirmation](#)

Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RF2932-0JA16>

Cax online generator

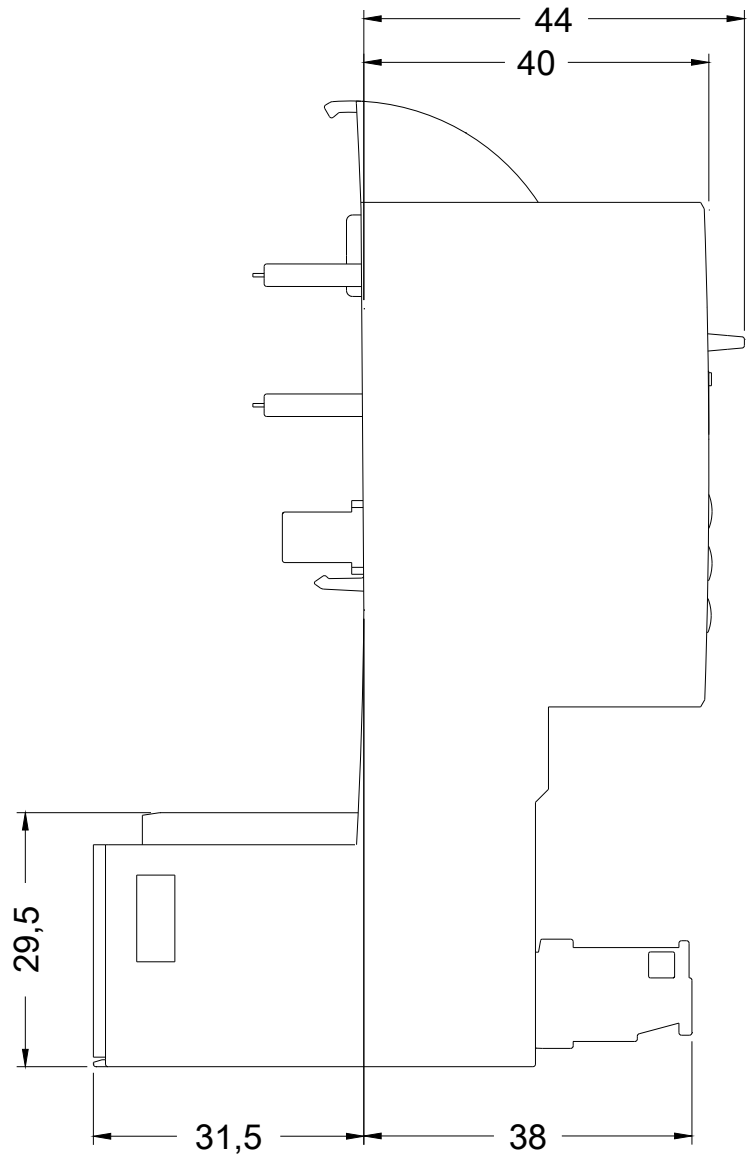
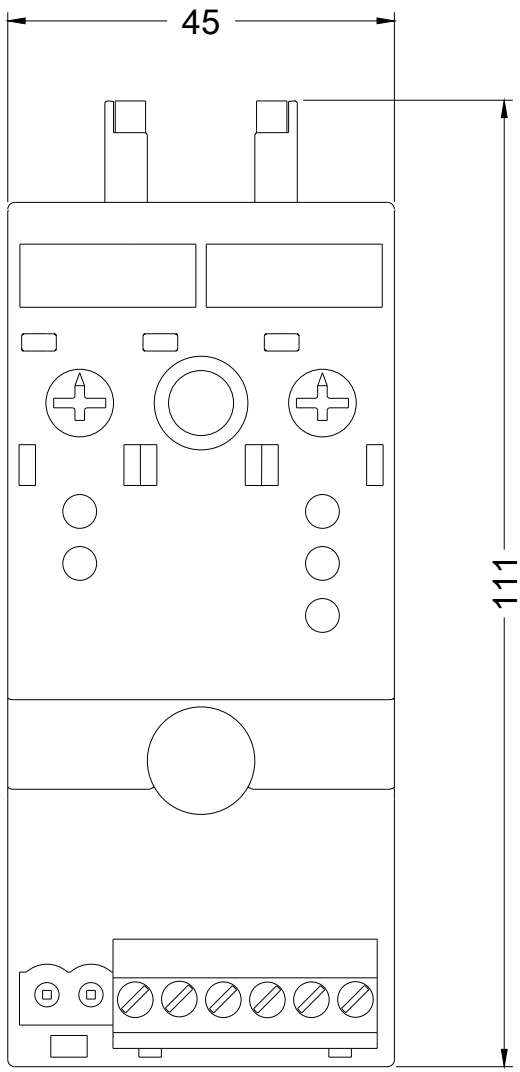
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2932-0JA16>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RF2932-0JA16>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2932-0JA16&lang=en



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