



Heat current monitoring Current range 32 A / 40 °C 110-230 V / 24 V
AC/DC for semiconductor relay / contactor Remote teach/without control
connector Customer-specific version

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| product brand name | SIRIUS |
| product designation | heating current monitoring |
| manufacturer's article number | |
| • _1 of the accessories that can be ordered | 3RF2900-0RA88 |
| product designation | |
| • _1 of the accessories that can be ordered | sealable end cover |
| General technical data | |
| product function | solid-state relay / solid-state contactor 3RF2 with standby |
| power loss [W] for rated value of the current without load current share typical | 1 W |
| insulation voltage rated value | 600 V |
| degree of pollution | 3 |
| shock resistance acc. to IEC 60068-2-27 | 15g / 11 ms |
| vibration resistance acc. to IEC 60068-2-6 | 2g |
| design of the switching function | NC contact |
| reference code acc. to IEC 81346-2 | B |
| Main circuit | |
| number of poles for main current circuit | 0 |
| number of NO contacts for main contacts | 0 |
| number of NC contacts for main contacts | 0 |
| type of voltage | AC/DC |
| • operating voltage at AC | |
| — at 50 Hz rated value | 110 ... 230 V |
| — at 60 Hz rated value | 110 ... 230 V |
| operating frequency rated value | 50 ... 60 Hz |
| relative symmetrical tolerance of the operating frequency | 10 % |
| operating range relative to the operating voltage at AC | |
| • at 50 Hz | 93.5 ... 253 V |
| • at 60 Hz | 93.5 ... 253 V |
| operational current | |
| • at AC-1 at 400 V rated value | 32 A |
| • at AC-51 rated value | 32 A |
| derating temperature | 40 °C |
| Control circuit/ Control | |
| type of voltage | AC/DC |
| • control supply voltage at AC at 50 Hz rated value | 20.5 ... 26.5 V |

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| • control supply voltage at AC at 60 Hz rated value | 20.5 ... 26.5 V |
| • control supply voltage at DC rated value | 18 ... 30 V |
| control supply voltage 1 | |
| • at DC | 24 V |
| control supply voltage at AC | |
| • at 50 Hz full-scale value for signal<0> recognition | 5 V |
| • at 60 Hz full-scale value for signal<0> recognition | 5 V |
| control supply voltage at DC full-scale value for signal<0> recognition | 5 V |
| supply voltage frequency for auxiliary and control circuit rated value | 50 ... 60 Hz |
| symmetrical line frequency tolerance | 5 Hz |
| control current at minimum control supply voltage | |
| • at AC | 2 mA |
| • at DC | 2 mA |
| control current at AC rated value | 40 mA |
| control current at DC rated value | 40 mA |
| 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 |
| Installation/ mounting/ dimensions | |
| fastening method | clip-on |
| • side-by-side mounting | Yes |
| height | 111.5 mm |
| width | 45 mm |
| depth | 69.5 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| • for auxiliary and control circuit | screw-type terminals |
| type of connectable conductor cross-sections | |
| • 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) |
| — finely stranded without core end processing | 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.0 mm²) |
| • at AWG cables for auxiliary and control contacts | 1x (AWG 20 ... 12) |
| • tightening torque for auxiliary and control contacts with screw-type terminals | 0.5 ... 0.6 N·m |
| • tightening torque [lbf·in] for auxiliary and control contacts with screw-type terminals | 4.5 ... 5.3 lbf·in |
| design of the thread of the connection screw of the auxiliary and control contacts | M3 |
| stripped length of the cable for auxiliary and control contacts | 7 mm |
| UL/CSA ratings | |
| Safety related data | |
| protection class IP on the front acc. to IEC 60529 | IP20 |
| touch protection on the front acc. to IEC 60529 | finger-safe, for vertical contact from the front |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 1 000 m |
| • ambient temperature during operation | -25 ... +60 °C |
| • ambient temperature during storage | -55 ... +80 °C |
| Electromagnetic compatibility | |
| conducted interference | |
| • due to burst acc. to IEC 61000-4-4 | 2 kV / 5 kHz behavior criterion 2 |
| • due to conductor-earth surge acc. to IEC 61000-4-5 | 2 kV behavior criterion 2 |
| • due to conductor-conductor surge acc. to IEC 61000-4-5 | 1 kV behavior criterion 2 |

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| • due to high-frequency radiation acc. to IEC 61000-4-6 | 140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1 |
| electrostatic discharge acc. to IEC 61000-4-2 | 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 |
| conducted HF interference emissions acc. to CISPR11 | Class A for industrial environment |
| field-bound HF interference emission acc. to CISPR11 | Class B for the domestic, business and commercial environments |
| Short-circuit protection, design of the fuse link | |
| Certificates/ approvals | |
| General Product Approval | EMC |
| Declaration of Conformity | |



[Miscellaneous](#)

| | |
|--------------------------|--------------|
| Test Certificates | other |
|--------------------------|--------------|

[Type Test
Certificates/Test
Report](#)

[Confirmation](#)

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=3RF2932-0JA13-1KK0>

Cax online generator

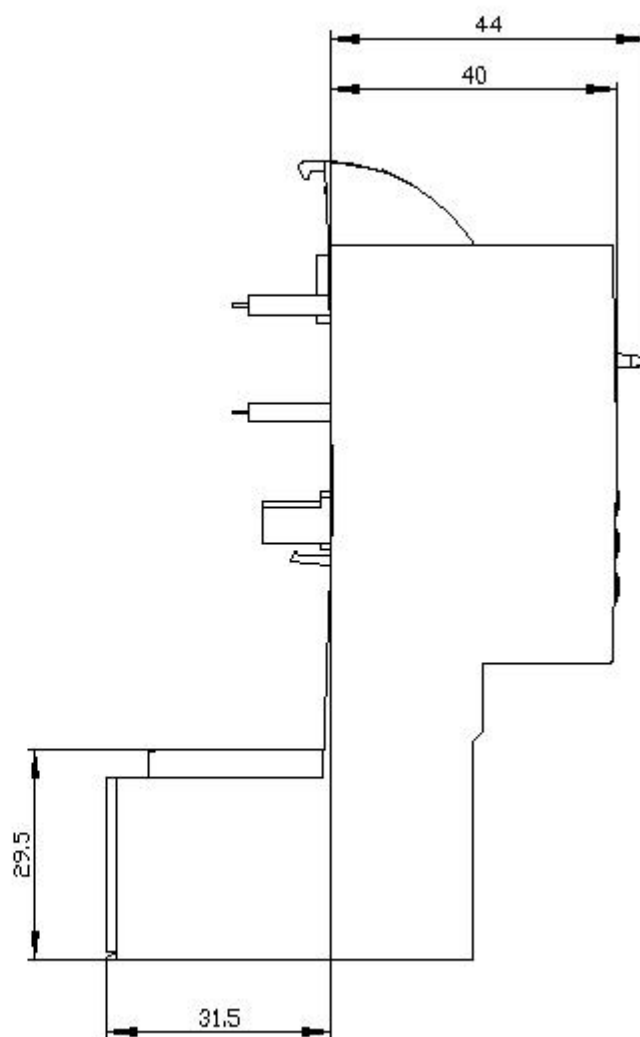
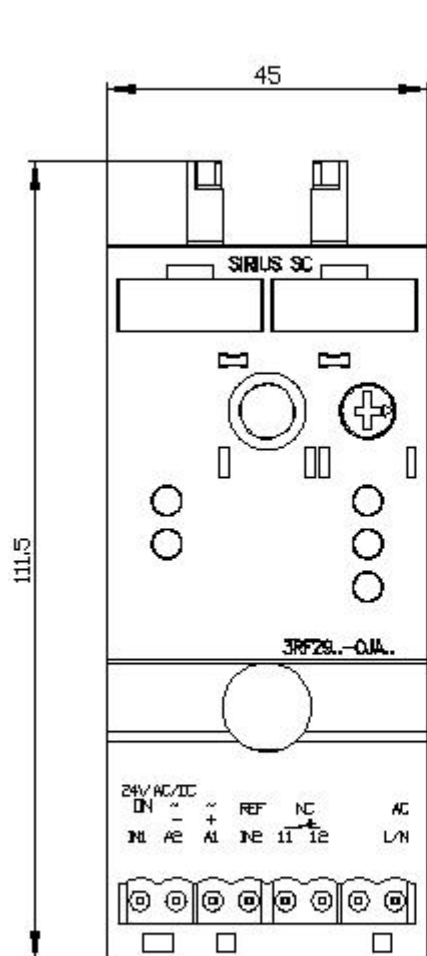
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2932-0JA13-1KK0>

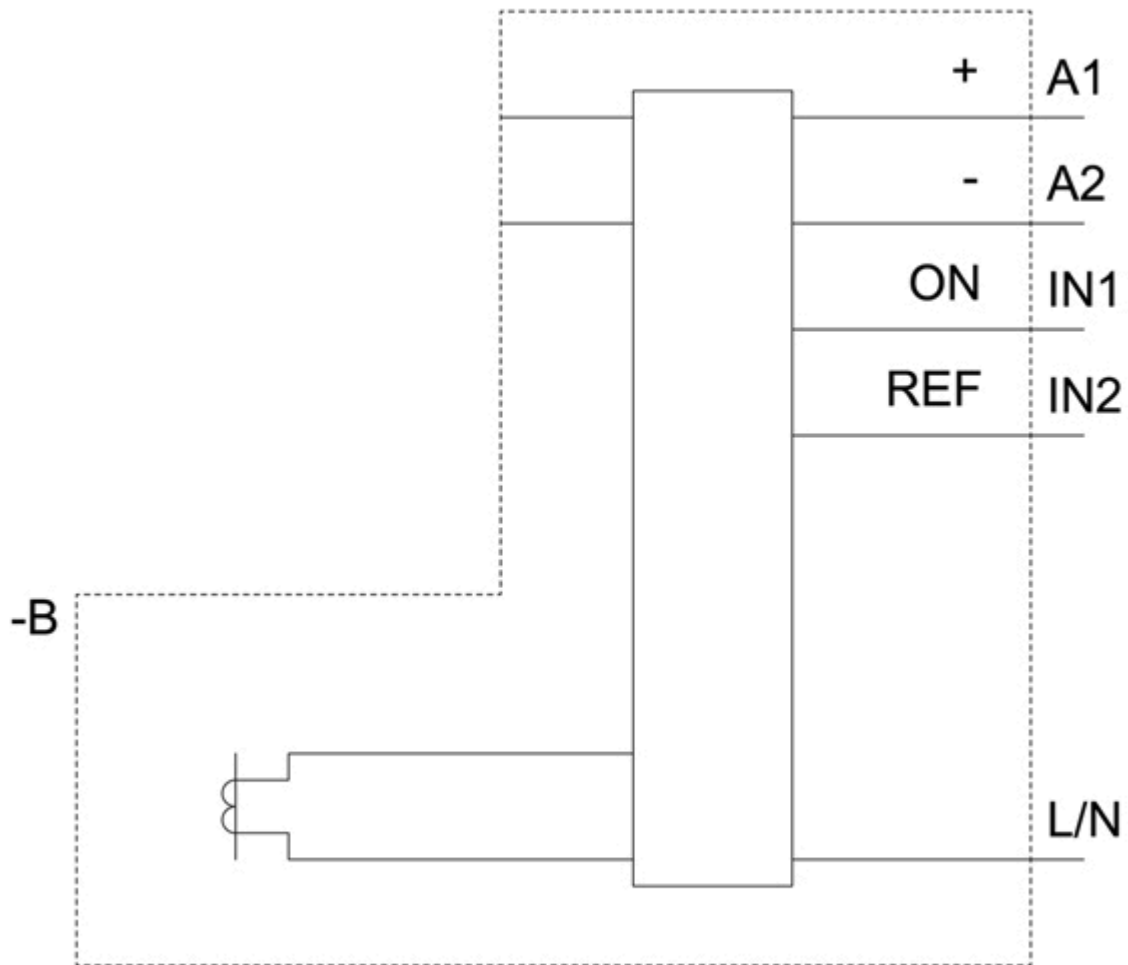
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RF2932-0JA13-1KK0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2932-0JA13-1KK0&lang=en





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