SIEMENS

Data sheet 3RF2950-0HA13



power regulator current range 50 A / 40 $^{\circ}\text{C}$ 110 ... 230 V 24 V AC/DC for semiconductor relay / contactor

| product brand name | SIRIUS |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| product designation | power regulator |
| product type designation | 3RF29 |
| manufacturer's article number | |
| _1 of the accessories that can be ordered | 3RF2900-0RA88 |
| _2 of the accessories that can be ordered | 4EM5001-1CB00 |
| product designation | |
| _1 of the accessories that can be ordered | sealable end cover |
| _2 of the accessories that can be ordered | input reactor / 1AC |
| General technical data | |
| product function | solid-state relay / solid-state contactor 3RF2 |
| 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 |
| surge voltage resistance of main circuit rated value | 2.5 kV |
| protection class IP | IP20 |
| protection class IP on the front according to IEC 60529 | IP20 |
| shock resistance according to IEC 60068-2-27 | 15g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | 2g |
| reference code according to IEC 81346-2 | K |
| Substance Prohibitance (Date) | 05/01/2012 |
| SVHC substance name | Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol - 119-47-1 |
| Weight | 0.165 kg |
| Switching Function | |
| design of the switching function | NC contact |
| 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 | 00.0 200 V |
| at AC-51 rated value | 50 A |
| derating temperature | 40 °C |
| Control circuit/ Control | 40 6 |
| | AC/DC |
| type of voltage | AC/DC |
| control supply voltage at AC | 20 5 26 5 V |
| • at 50 Hz rated value | 20.5 26.5 V 20.5 26.5 V |
| • at 60 Hz rated value | 20.5 20.5 V |
| control supply voltage 1 at AC | 24.1/ |
| • at 50 Hz rated value | 24 V 24 V |
| • at 60 Hz rated value | |
| control supply voltage at DC rated value | 18 30 V 24 V |
| control supply voltage 1 at DC rated value | |
| control supply voltage 1 at DC final rated value | 24 V |
| control supply voltage at AC | EV. |
| • 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 side-by-side mounting | Yes |
| fastening method | clip-on |
| 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) |
| for 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 |
| Electrical Safety | ID20 |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| Ambient conditions | 4.000 |
| installation altitude at height above sea level maximum | 1 000 m |
| ambient temperature | 05 ,00 %0 |
| during operation | -25 +60 °C |
| during storage | -55 +80 °C |

Electromagnetic compatibility conducted interference • due to burst according to IEC 61000-4-4 2 kV / 5 kHz behavior criterion 2 2 kV behavior criterion 2 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 1 kV behavior criterion 2 • due to high-frequency radiation according to IEC 61000-140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1 4-6 electrostatic discharge according to IEC 61000-4-2 4 kV contact discharging / 8 kV air discharging, behavior criterion 2 conducted HF interference emissions according to Class A for industrial environment CISPR11 field-bound HF interference emission according to CISPR11 Class B for the domestic, business and commercial environments Approvals Certificates

General Product Approval

EMV

Test Certificates











Type Test Certificates/Test Report

other Environment

Confirmation

Environmental Confirmations

Further information

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=3RF2950-0HA13

Cax online generator

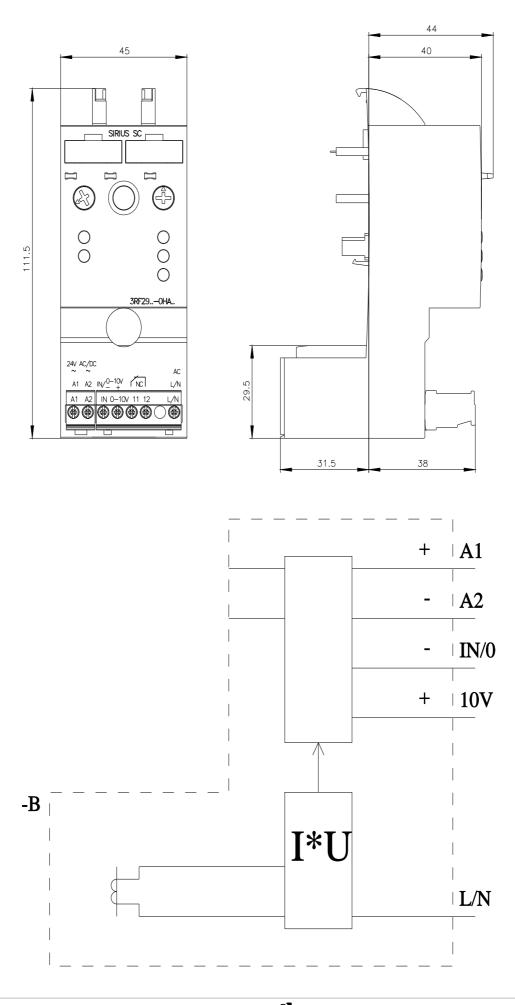
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RF2950-0HA13}$

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RF2950-0HA13}$

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2950-0HA13&lang=en



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