



phase-out type converter control voltage 24 V AC/DC for semiconductor relay/contactors

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|--|--|
| product brand name | SIRIUS |
| product designation | converter |
| product type designation | 3RF29 |
| General technical data | |
| product function | solid-state relay / solid-state contactor 3RF2 |
| degree of pollution | 3 |
| protection class IP | IP20 |
| protection class IP on the front according to IEC 60529 | IP20 |
| shock resistance according to IEC 60068-2-27 | 15 g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | 2 g |
| reference code according to IEC 81346-2 | T |
| Substance Prohibitance (day/month/year) | 07/01/2006 |
| SVHC substance name | Lead CAS-No. 7439-92-1 Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 |
| Net Weight | 0.045 kg |
| 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 |
| operating frequency rated value | 50 ... 60 Hz |
| relative symmetrical tolerance of the operating frequency | 10 % |
| 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 |
| • at 60 Hz rated value | 20.5 ... 26.5 V |
| control supply voltage at DC rated value | 18 ... 30 V |
| supply voltage frequency for auxiliary and control circuit rated value | 50 ... 60 Hz |
| symmetrical line frequency tolerance | 5 Hz |
| control current at AC rated value | 25 mA |
| control current at DC rated value | 25 mA |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 0 |
| 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 | 83.5 mm |
| width | 22.5 mm |
| depth | 38 mm |

| Connections/ Terminals | |
|---|--|
| type of electrical connection | screw-type terminals |
| <ul style="list-style-type: none"> for auxiliary and control circuit | |
| type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> for auxiliary and control contacts <ul style="list-style-type: none"> — solid — finely stranded with core end processing — finely stranded without core end processing for AWG cables for auxiliary and control contacts | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1 mm ²) 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1 mm ²) 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1 mm ²) 1x (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 | |
|---|--|
| touch protection on the front according 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 | |
| <ul style="list-style-type: none"> during operation during storage | -25 ... +60 °C -55 ... +80 °C |

| Electromagnetic compatibility | |
|---|---|
| conducted interference | |
| <ul style="list-style-type: none"> due to burst according to IEC 61000-4-4 due to conductor-earth surge according to IEC 61000-4-5 due to conductor-conductor surge according to IEC 61000-4-5 due to high-frequency radiation according to IEC 61000-4-6 | 2 kV / 5 kHz, behavior criterion 2 2 kV, behavior criterion 2 1 kV, behavior criterion 2 140 dBuV in the frequency range 0.15 ... 80 MHz, behavior criterion 1 |
| 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 CISPR11 | Class A for industrial environment |
| field-bound HF interference emission according to CISPR11 | Class B for the domestic, business and commercial environments |

| Approvals Certificates | |
|------------------------|---------------------------------|
| Environment | General Product Approval |

[Environmental Con-
firmations](#)



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



[Type Test Certific-
ates/Test Report](#)

[Confirmation](#)



[Confirmation](#)

| Further information |
|---------------------|
|---------------------|

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RF2900-0EA18>

Cax online generator

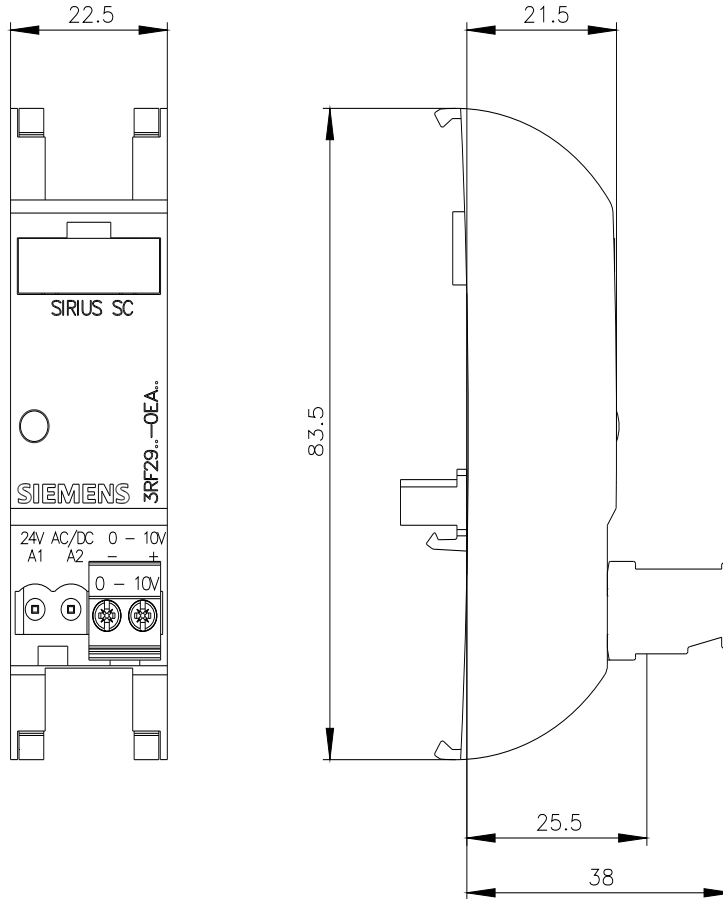
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RF2900-0EA18>

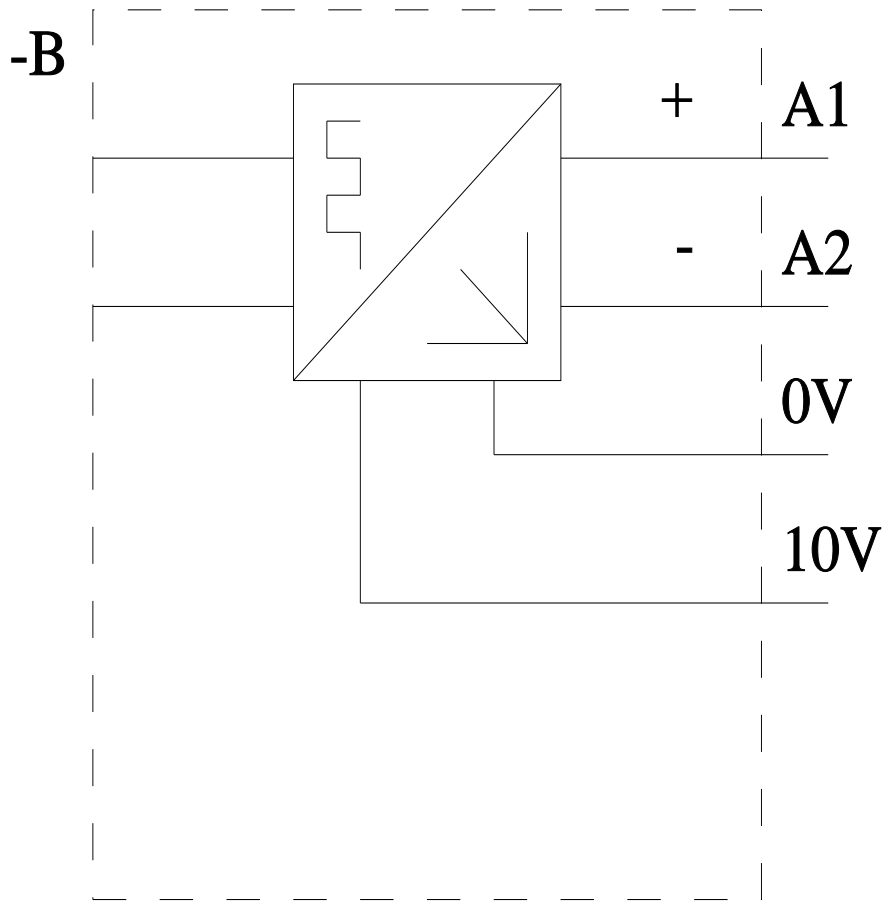
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RF2900-0EA18>

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

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RF2900-0EA18&lang=en





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4/4/2026 