SIEMENS

Data sheet

3RS7002-2CE00



Separation amplifier 24 V AC/DC, 3-way separation input: 0-20 mA output: 0-20 mA Spring-type terminal (push-in)

| product brand name | SIRIUS |
|---|----------------------------------|
| product category | Signal converter |
| product designation | Single-range converters |
| design of the product | active |
| product type designation | 3RS70 |
| General technical data | |
| display version LED | Yes |
| number of channels | 1 |
| consumed active power | 0.29 W |
| insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value | 50 V |
| surge voltage resistance rated value | 2 500 V |
| protection class IP | IP20 |
| shock resistance according to IEC 60068-2-27 | sinusoidal half-wave 15g / 11 ms |
| vibration resistance according to IEC 60068-2-6 | 6 150 Hz: 2 g |
| reference code according to IEC 81346-2 | Т |
| Substance Prohibitance (Date) | 03/25/2015 |
| Supply voltage | |
| supply voltage at AC | |
| at 50 Hz rated value | 24 V |
| at 60 Hz rated value | 24 V |
| supply voltage at DC rated value | 24 V |
| supply voltage frequency rated value | 60 50 Hz |
| operating range factor supply voltage rated value | |
| • at AC at 50 Hz | 0.8 1.1 |
| • at AC at 60 Hz | 0.8 1.1 |
| • at DC | 0.8 1.1 |
| Precision | |
| relative metering precision | 0.1 % |
| relative linearity deviation | 0.05 % |
| temperature drift per °C | 0.015 %/°C |
| voltage ripple maximum | 20 mV |
| limit frequency | 30 Hz |
| settling time for 1 % deviation | 17 ms |
| rise time | 6 ms |
| Main circuit | |
| type of voltage | AC/DC |
| Inputs/ Outputs | |
| input voltage | 30 V |
| | |

| property of the output chart sizewith proof | Vac | | |
|---|--|--|--|
| property of the output short-circuit proof | Yes 0 20 mA | | |
| type of signal at input type of signal at output | | | |
| input impedance of current input maximum | 0 20 mA 100 Ω | | |
| output load | 100.32 | | |
| at the current output maximum | 500 Ω | | |
| Electromagnetic compatibility | | | |
| EMC emitted interference according to IEC 60947-1 | Environment B | | |
| EMC immunity according to IEC 60947-1 | corresponds to degree of severity 3 | | |
| conducted interference | concepting to degree of sevenity o | | |
| due to burst according to IEC 61000-4-4 | 1 kV 5/50 ns | | |
| due to conductor-conductor surge according to IEC | 1 kV | | |
| 61000-4-5 | | | |
| field-based interference according to IEC 61000-4-3 | 10 V/m | | |
| electrostatic discharge according to IEC 61000-4-2 | 6 kV contact discharge / 8 kV air discharge | | |
| Galvanic isolation | | | |
| design of the electrical isolation | 3 paths | | |
| galvanic isolation | | | |
| between input and output | Yes | | |
| between the outputs | No | | |
| between the inputs | No | | |
| between the voltage supply and other circuits | Yes | | |
| Connections/ Terminals | | | |
| type of electrical connection | spring-loaded terminals | | |
| type of connectable conductor cross-sections | | | |
| • solid | 1x (0.25 2.5 mm²) | | |
| finely stranded with core end processing | 1x (0.25 1.5 mm ²) | | |
| finely stranded without core end processing | 1x (0.25 2.5 mm ²) | | |
| at AWG cables solid | 1 x (20 14) | | |
| at AWG cables stranded | 1x (20 14) | | |
| connectable conductor cross-section | 0.05 0.5 mm² | | |
| solid finally stranded with some and processing | 0.25 2.5 mm ² | | |
| finely stranded with core end processing finely stranded without core end processing | 0.25 1.5 mm ² 0.25 2.5 mm ² | | |
| AWG number as coded connectable conductor cross | | | |
| section | | | |
| • solid | 20 14 | | |
| • stranded | 20 14 | | |
| Installation/ mounting/ dimensions | | | |
| mounting position | any | | |
| fastening method | snap-on mounting | | |
| height | 93 mm | | |
| width | 6.2 mm | | |
| depth | 72.5 mm | | |
| required spacing | | | |
| with side-by-side mounting | | | |
| — forwards | 0 mm | | |
| — backwards | 0 mm | | |
| — upwards | 0 mm | | |
| — downwards | 0 mm | | |
| — at the side | 0 mm | | |
| for grounded parts forwards | 0 mm | | |
| — torwards — backwards | 0 mm 0 mm | | |
| — upwards | 0 mm | | |
| — upwards — at the side | 0 mm | | |
| — at the side — downwards | 0 mm | | |
| • for live parts | | | |
| — forwards | 0 mm | | |
| — backwards | 0 mm | | |
| | | | |

| — upwards — downwards — at the side | 0 mm 0 mm 0 mm | | | | |
|---|----------------------|------------------------------|---|--|--|
| Ambient conditions | UTIIII | | | | |
| installation altitude at height above sea level maximum | 2 000 m | | | | |
| ambient temperature | 2 000 m | | | | |
| during operation | -25 +60 °C | | | | |
| during storage | -40 +80 °C | | | | |
| during transport | -40 +80 °C | | | | |
| relative humidity during operation | 10 95 % | | | | |
| Certificates/ approvals | | | | | |
| General Product Approval | | Declaration of Conformity | Test Certificates | | |
| Confirmation UL | EAC | CE EG-Konf. | Type Test Certific- ates/Test Report | | |
| Marine / Shipping other | | | | | |
| | | | | | |
| 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=3RS7002-2CE00 | | | | | |
| Cax online generator | | | | | |
| <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7002-2CE00</u> Service&Support (Manuals, Certificates, Characteristics, FAQs,) | | | | | |
| https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-2CE00 | | | | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) | | | | | |
| http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7002-2CE00⟨=en | | | | | |

last modified:

Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-2CE00/manual

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