## **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 |  |
| 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 short-circuit proof  | Yes                              |  |
| type of signal at input   | 0 20 mA                          |  |

| type of signal at output   | 0 20 mA   |
|--|---|
| input impedance of current input maximum   | 100 Ω   |
| output load  | 100 12  |
| at the current output maximum  | 500 Ω   |
| Electromagnetic compatibility  | 000 12  |
| 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   | contraponds to degree of severity 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   |   |
| <ul> <li>between input and output</li> </ul>   | 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   | 4: (0.05 0.5 mm²)                                 |
| • solid  | 1x (0.25 2.5 mm²)                                 |
| finely stranded with core end processing   | 1x (0.25 1.5 mm²)                                 |
| finely stranded without core end processing  | 1x (0.25 2.5 mm²)                                 |
| • for AWG cables solid   | 1 x (20 14)                                       |
| • for AWG cables stranded  | 1x (20 14)  |
| connectable conductor cross-section  | 0.25 2.5 mm²                                      |
| <ul><li>solid</li><li>finely stranded with core end processing</li></ul>                     | 0.25 2.5 mm <sup>2</sup> 0.25 1.5 mm <sup>2</sup> |
|  | 0.25 2.5 mm <sup>2</sup>                          |
| finely stranded without core end processing  AWG number as coded connectable conductor cross | 0.20 2.J IIIII                                    |
| 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   | 0.000   |
| — forwards   | 0 mm  |
| — backwards  | 0 mm  |
| — upwards  | 0 mm  |
| — at the side  | 0 mm  |
| — downwards  | 0 mm  |
| • for live parts   | 0 mm  |
| — forwards   | 0 mm  |
| — backwards<br>— upwards   | 0 mm  |
| — upwards<br>— downwards   | 0 mm  |
| — downwards — at the side  | 0 mm  |
| — at the side  | V IIIIII  |

| Ambient conditions                                      |            |
|---|------------|
| installation altitude at height above sea level maximum | 2 000 m    |
| ambient temperature                                     |            |
| <ul> <li>during operation</li> </ul>                    | -25 +60 °C |
| during storage  | -40 +80 °C |
| during transport  | -40 +80 °C |
| relative humidity during operation                      | 10 95 %    |
|   |            |

Approvals Certificates

**General Product Approval** 

**Declaration of Conformity** 



Confirmation









**Test Certificates** 

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RS7002-2CE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7002-2CE00

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

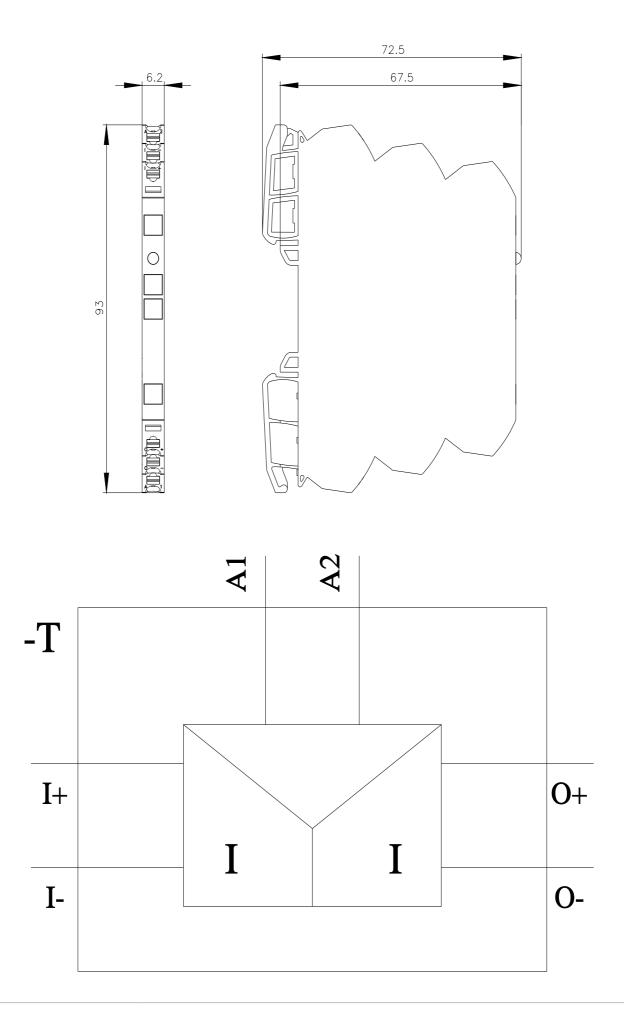
https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-2CE00

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&lang=en

**Characteristic: Derating** 

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



last modified: 12/23/2020 🖸

