## **SIEMENS**

Data sheet 3RS7003-2AE00



Separation amplifier 24 V AC/DC, 3-way separation input: 4-20 mA output: 0-10 V 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	4 20 mA	

type of signal at output	0 10 V
input impedance of current input maximum	100 Ω
output load	100 12
at voltage output minimum	2 kΩ
Electromagnetic compatibility	L 1/32
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	corresponds 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	4.4 (0.05 Q.F. mom²)
• solid	1x (0.25 2.5 mm²)
finely stranded with core end processing     finely stranded without core and processing	1x (0.25 1.5 mm²)
finely stranded without core end processing	1x (0.25 2.5 mm²)
for AWC cables stranded	1 x (20 14)
for AWG cables stranded     connectable conductor cross-section	1x (20 14)
solid	0.25 2.5 mm²
finely stranded with core end processing	0.25 1.5 mm <sup>2</sup>
finely stranded with core end processing     finely stranded without core end processing	0.25 2.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross	0.20 2.0 Hilli
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 mm
— forwards — backwards	0 mm
	0 mm
— upwards — at the side	0 mm
— at the side — downwards	0 mm
	O IIIIII
for live parts     — forwards	0 mm
— lorwards — backwards	0 mm
— packwards — upwards	0 mm
— upwarus — downwards	0 mm
— at the side	0 mm
at the side	VIIIII

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**







Confirmation





**Test Certificates** 

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

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=3RS7003-2AE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7003-2AE00

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

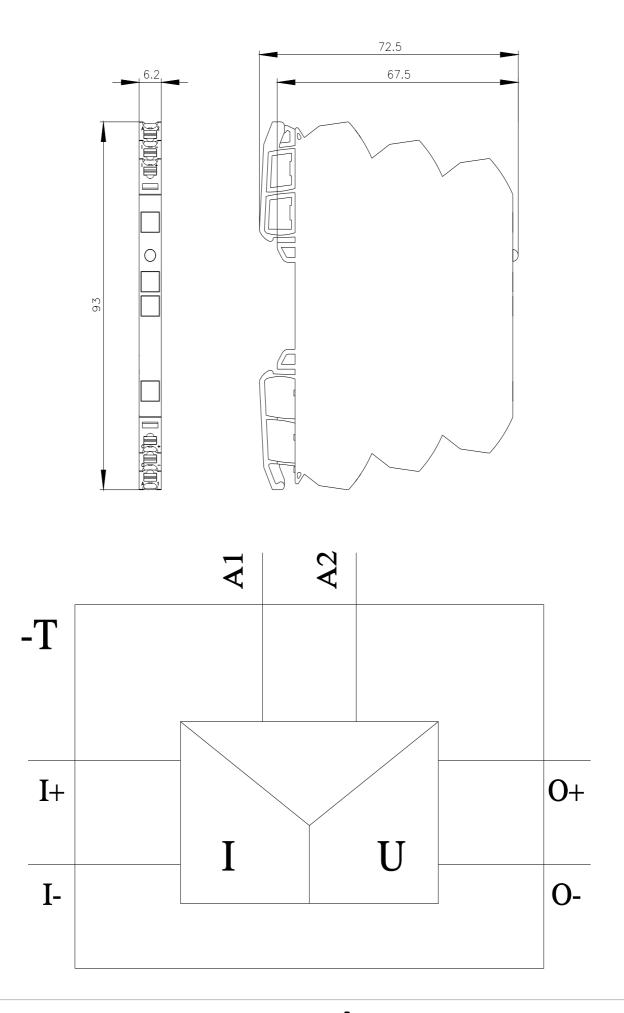
https://support.industry.siemens.com/cs/ww/en/ps/3RS7003-2AE00

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RS7003-2AE00&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RS7003-2AE00/manual



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