# SIEMENS

### Data sheet

## 3RS7000-2CE00



Separation amplifier 24 V AC/DC, 3-way separation input: 0-10 V 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 10 V
type of signal at input type of signal at output	0 10 V 0 20 mA
input impedance of voltage input minimum	0 20 mA 330 kΩ
output load	000 122
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	
<ul> <li>between input and output</li> </ul>	Yes
<ul> <li>between the outputs</li> </ul>	No
between the inputs	No
<ul> <li>between the voltage supply and other circuits</li> </ul>	Yes
Connections/ Terminals	
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm <sup>2</sup> )
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.25 2.5 mm <sup>2</sup> )
at AWG cables solid	1 x (20 14)
at AWG cables stranded	1x (20 14)
connectable conductor cross-section	0.25 2.5 mm²
<ul> <li>solid</li> <li>finally atransford with some and processing</li> </ul>	0.25 1.5 mm <sup>2</sup>
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	0.25 2.5 mm <sup>2</sup>
AWG number as coded connectable conductor cross	V.20 2.0 mm
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
— forwards — backwards	0 mm
— Dackwards — upwards	0 mm 0 mm
— upwards — at the side	0 mm
— at the side — downwards	0 mm
for live parts	v nin
- forwards	0 mm
— bolwards	0 mm
Multituluu	

— upwards		0	mm		
— downward	s	0	mm		
— at the side		0	mm		
Ambient conditions					
installation altitude at	height above sea level max	kimum 2	000 m		
ambient temperature	9				
<ul> <li>during operation</li> </ul>	n	-2	25 +60 °C		
<ul> <li>during storage</li> </ul>		-4	0 +80 °C		
<ul> <li>during transpor</li> </ul>	t	-4	0 +80 °C		
relative humidity durir	ng operation	10	D 95 %		
Certificates/ approval	s				
				Declaration of	Test Certificates
General Product Ap	proval			Conformity	rest certificates
General Product Ap	provai	(ال س	EAC	Conformity C E EG-Konf.	Type Test Certific- ates/Test Report
General Product Ap		۹	EAC	CE	Type Test Certific-

#### 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=3RS7000-2CE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7000-2CE00

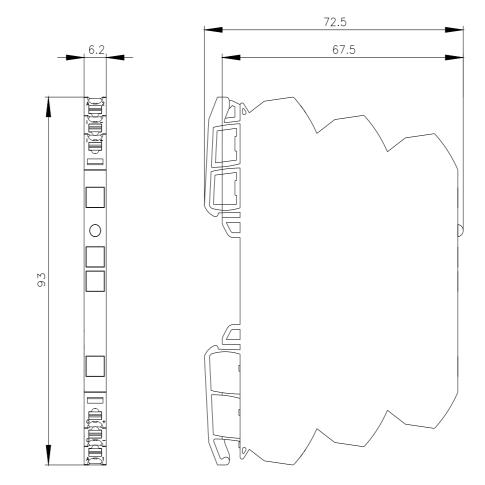
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

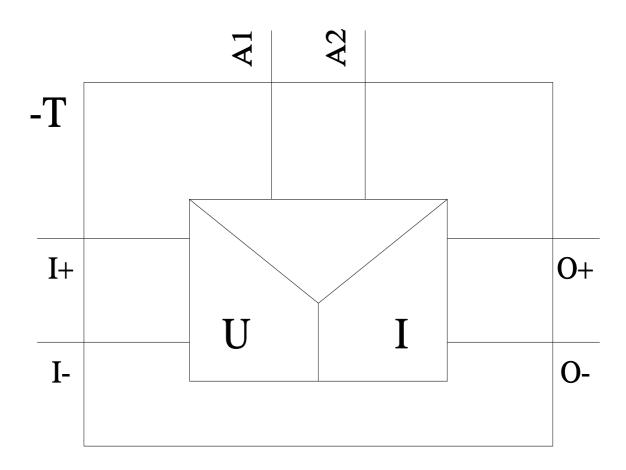
https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-2CE00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RS7000-2CE00&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-2CE00/manual





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