## SIEMENS

## Data sheet

## 3RS7000-1DE00



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

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	
<ul> <li>at 50 Hz rated value</li> </ul>	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			
input impedance of voltage input minimum	4 20 mA		
output load	330 kΩ		
at the current output maximum	500 Ω		
Electromagnetic compatibility	500 12		
	Environment B		
EMC emitted interference according to IEC 60947-1			
EMC immunity according to IEC 60947-1 conducted interference	corresponds to degree of severity 3		
	1 kV 5/50 ns		
due to burst according to IEC 61000-4-4			
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV		
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		
<ul> <li>between the voltage supply and other circuits</li> </ul>	Yes		
Connections/ Terminals			
type of electrical connection	screw-type terminals		
type of connectable conductor cross-sections			
• solid	1x (0.25 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm <sup>2</sup> )		
at AWG cables solid	1 x (20 14)		
connectable conductor cross-section			
• solid	0.25 2.5 mm <sup>2</sup>		
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>		
AWG number as coded connectable conductor cross			
section			
• solid	20 14		
tightening torque with screw-type terminals	0.5 0.6 N·m		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	93 mm		
width	6.2 mm		
depth	72.5 mm		
required spacing			
<ul> <li>with side-by-side mounting</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
<ul> <li>for live parts</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		

Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
<ul> <li>during operation</li> </ul>	-25 +60 °C		
<ul> <li>during storage</li> </ul>	-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 CSA	EHC	CE EG-Konf.	<u>Type Test Certific-</u> 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 Cax online generator http://support.automation.siemens.com/WW/CAXorder/defau Service&Support (Manuals, Certificates, Characteristics, https://support.industry.siemens.com/cs/ww/en/ps/3RS7000- Image database (product images, 2D dimension drawing: http://www.automation.siemens.com/bilddb/cax_de.aspx?mlf Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-	i?mlfb=3RS7000-1DE00 It.aspx?lang=en&mlfb=3RS70 FAQs,) 1DE00 s, 3D models, device circuit b=3RS7000-1DE00⟨=en		cros,)

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