SIEMENS

Data sheet

3RS7000-1DE00



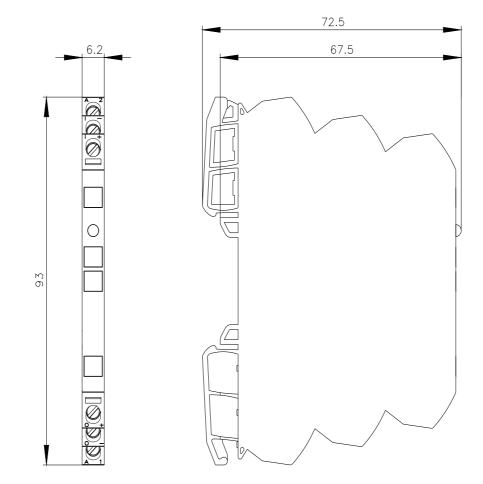
Separation amplifier 24 V AC/DC, 3-way separation input: 0-10 V output: 4-20 mA screw terminal

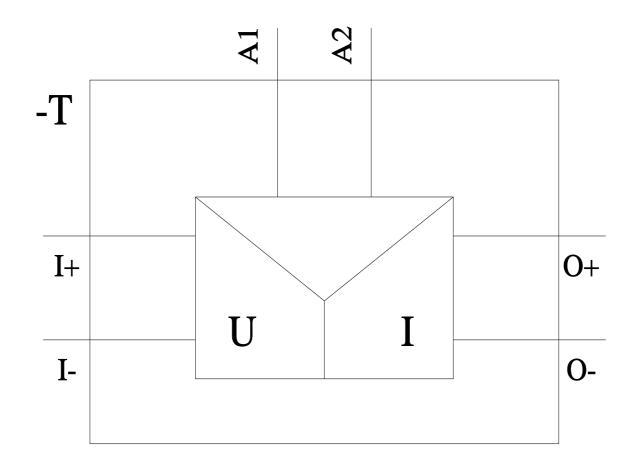
product brand name	SIRIUS
product category	Signal converter
product designation	Single-range converters
design of the product	active
product type designation	3RS70
General technical data	
display version LED	Yes
number of channels	1
consumed active power	0.29 W
insulation voltage for overvoltage category 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	
• 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	Voc			
property of the output short-circuit proof	Yes 0 10 V			
type of signal at input type of signal at output	0 10 V 4 20 mA			
input impedance of voltage input minimum	4 20 ΠΑ 330 kΩ			
output load	550 K12			
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 1/1 5/50 22			
due to burst according to IEC 61000-4-4	1 kV 5/50 ns			
 due to conductor-conductor surge according to IEC 61000-4-5 	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			
 between the voltage supply and other circuits 	Yes			
Connections/ Terminals				
type of electrical connection	screw-type 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)			
at AWG cables solid	1 x (20 14)			
connectable conductor cross-section				
• solid	0.25 2.5 mm ²			
 finely stranded with core end processing 	0.25 2.5 mm ²			
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				
 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			
— backwards	0 mm			
— upwards	0 mm			
— at the side	0 mm			
— downwards	0 mm			
 for live parts 				
— 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 ma	ximum 2 00) m				
ambient temperature	ambient temperature						
during operation		-25 .	-25 +60 °C				
during storage			-40 +80 °C				
during transport			-40 +80 °C				
relative humidity during operation		10	10 95 %				
Certificates/ approvals							
General Product Ap	proval			Declaration of Conformity	Test Certificates		
SP CEM	<u>Confirmation</u>		EHC	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report		
Marine / Shipping	other						
DNV-GL DNV-GL	<u>Confirmation</u>						
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=3RS7000-1DE00							
Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7000-1DE00							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-1DE00							
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7000-1DE00&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-1DE00/manual





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