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	
 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	spring-loaded terminals
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm ²)
 finely stranded with core end processing 	1x (0.25 1.5 mm ²)
 finely stranded without core end processing 	1x (0.25 2.5 mm ²)
at AWG cables solid	1 x (20 14)
at AWG cables stranded	1x (20 14)
connectable conductor cross-section	0.25 2.5 mm²
 solid finally atransford with some and processing 	0.25 1.5 mm ²
 finely stranded with core end processing finely stranded without core end processing 	0.25 2.5 mm ²
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	1		0 mm		
Ambient conditions					
installation altitude at	height above sea level ma	aximum	2 000 m		
ambient temperature	e				
during operation			-25 +60 °C		
 during storage 			-40 +80 °C		
 during transpor 	t		-40 +80 °C		
relative humidity durir	ng operation		10 95 %		
Certificates/ approval	s				
General Product Ap	proval			Declaration of Conformity	Test Certificates
SP.	<u>Confirmation</u>	(UL)	EHC	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report
CSA Marine / Shipping	<u>Confirmation</u> other	(U) u	EAC		<u>Type Test Certific-</u> ates/Test Report

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

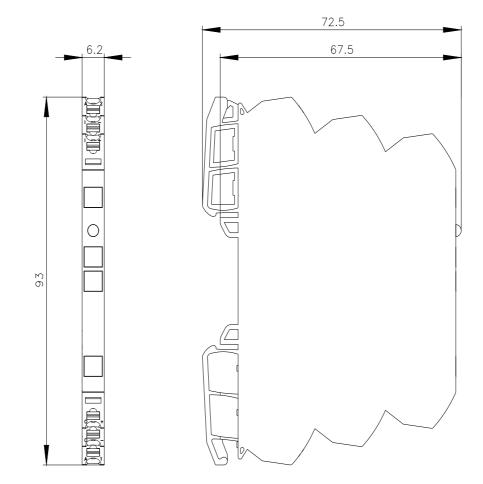
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

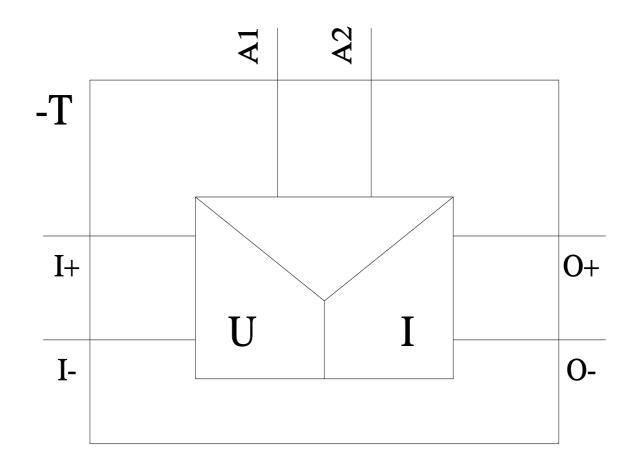
https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-2CE00

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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