SIEMENS

Data sheet 3RS7002-2AE00



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

	V		
property of the output short-circuit proof	Yes		
type of signal at input	0 20 mA		
type of signal at output	0 10 V		
input impedance of current input maximum	100 Ω		
output load			
at voltage output minimum	2 kΩ		
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			
 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	o kv dontadt aldonarge / o kv dir aldonarge		
design of the electrical isolation	3 paths		
galvanic isolation	5 pauls		
between input and output	Yes		
between input and output between the outputs	No		
between the outputs between the inputs	No		
 between the inputs between the voltage supply and other circuits 	Yes		
Connections/ Terminals			
type of electrical connection	spring-loaded terminals		
type of connectable conductor cross-sections	Spring-loaded terminals		
• solid	1x (0.25 2.5 mm²)		
finely stranded with core end processing	1x (0.25 1.5 mm²)		
finely stranded with our core end processing	1x (0.25 1.5 mm²) 1x (0.25 2.5 mm²)		
at AWG cables solid	1 x (20 14)		
at AWG cables stranded	1x (20 14)		
connectable conductor cross-section			
• solid	0.25 2.5 mm²		
 finely stranded with core end processing 	0.25 1.5 mm²		
finely stranded without core end processing	0.25 2.5 mm²		
AWG number as coded connectable conductor cross			
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		
— forwards — backwards	0 mm 0 mm		
— packwards — upwards	0 mm		
— upwards — downwards	0 mm		
— downwards — at the side	0 mm		
for grounded parts	VIIIII		
for grounded parts — forwards	0 mm		
— backwards	0 mm		
— packwards — upwards	0 mm		
— upwarus — at the side	0 mm		
— at the side — downwards	0 mm		
for live parts			
— forwards	0 mm		
— backwards	0 mm		
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Ganaral Product Approval		Declaration of	Tost Cortificatos	
Certificates/ approvals				
relative humidity during operation	10 95 %			
during transport	-40 +80 °C			
 during storage 	-40 +80 °C			
 during operation 	-25 +60 °C			
ambient temperature				
installation altitude at height above sea level maximum	2 000 m			
Ambient conditions				
— at the side	0 mm			
— downwards	0 mm			
— upwards	0 mm			

General Product Approval

Confirmation



Conformity

Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

other



Confirmation

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=3RS7002-2AE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7002-2AE00

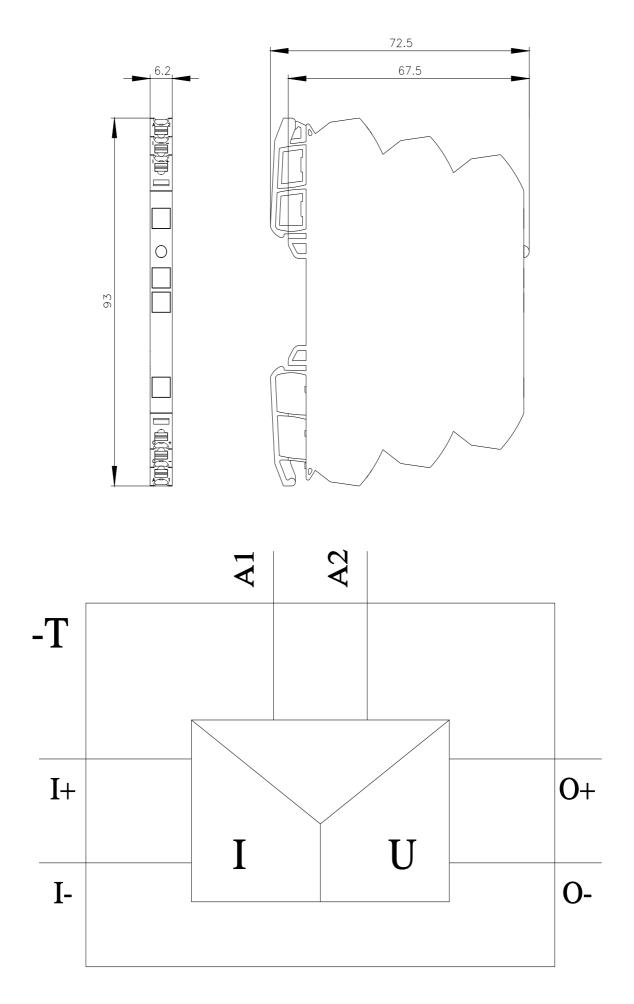
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-2AE00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7002-2AE00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-2AE00/manual



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