SIEMENS

Data sheet

3RS7002-2DE00



Separation amplifier 24 V AC/DC, 3-way separation input: 0-20 mA output: 4-20 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 20 mA		
type of signal at input type of signal at output			
input impedance of current input maximum	4 20 mA 100 Ω		
output load	100.32		
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 act AWC applies called	1x (0.25 2.5 mm ²)		
 at AWG cables solid at AWG cables stranded 	1 x (20 14)		
at AWG cables stranded connectable conductor cross-section	1x (20 14)		
solid	0.25 2.5 mm²		
 finely stranded with core end processing 	0.25 2.5 mm ² 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			
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 — downwards	0 mm		
— downwards — at the side	0 mm 0 mm		
for grounded parts			
 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 — downwards	0 mm 0 mm				
— at the side	0 mm				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
 during operation 	-25 +60 °C				
during storage	-40 +80 °C				
during transport	-40 +80 °C				
relative humidity during operation	10 95 %				
Certificates/ approvals					
General Product Approval		Declaration of Conformity	Test Certificates		
	EHC	CE EG-Konf.	Type Test Certific- 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?mlfb=3RS7002-2DE00					
Cax online generator					
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7002-2DE00					
Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
<u>https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-2DE00</u> Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)					
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7002-2DE00⟨=en					

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