SIEMENS

Data sheet 3RS7003-2DE00



Separation amplifier 24 V AC/DC, 3-way separation input: 4-20 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		

manufaction and the same to be the same	V		
property of the output short-circuit proof	Yes		
type of signal at input	4 20 mA		
type of signal at output	4 20 mA		
input impedance of current input maximum	100 Ω		
output load			
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			
 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	10 V/m		
field-based interference according to IEC 61000-4-3			
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	V.		
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 mm²)		
 finely stranded with core end processing 	1x (0.25 1.5 mm²)		
 finely stranded without core end processing 	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 mm ²		
 finely stranded with core end processing 	0.25 1.5 mm ²		
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		
	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 mountingforwards	0 mm		
— lorwards — backwards	0 mm		
— packwards — upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
for grounded parts	V		
— forwards	0 mm		
— backwards	0 mm		
— packwards — upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
for live parts	V IIIII		
— forwards	0 mm		
— lorwards — backwards	0 mm		
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— 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				
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	



Confirmation



EAC



Type Test Certificates/Test Report

Marine / Shipping

other



Confirmation

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=3RS7003-2DE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7003-2DE00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RS7003-2DE00

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7003-2DE00/manual

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