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		
— Dackwaius	O THILL		

— 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

CE EG-Konf. 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

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7003-2DE00&lang=en

Characteristic: Derating

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

last modified: 12/21/2020 🖸