SIEMENS

Data sheet 3RS7000-2DE00



Separation amplifier 24 V AC/DC, 3-way separation input: 0-10 V 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

	V
property of the output short-circuit proof	Yes
type of signal at input	0 10 V
type of signal at output	4 20 mA
input impedance of voltage input minimum	330 kΩ
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 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 Contact discharge / O KV all discharge
	0 = 44 =
design of the electrical isolation	3 paths
galvanic isolation	Voc
between input and output between the outputs	Yes
between the outputsbetween the inputs	No No
between the inputsbetween the voltage supply and other circuits	No Yes
Connections/ Terminals	165
	anying landed terminals
type of electrical connection 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 core end processing finely stranded without 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	1X (EU 17)
• solid	0.25 2.5 mm²
finely stranded with core end processing	0.25 1.5 mm ²
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	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	0
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
for live partsforwards	0 mm
— lorwards — backwards	0 mm
— packwarus	U IIIIII

— 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		
	Declaration of	

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=3RS7000-2DE00

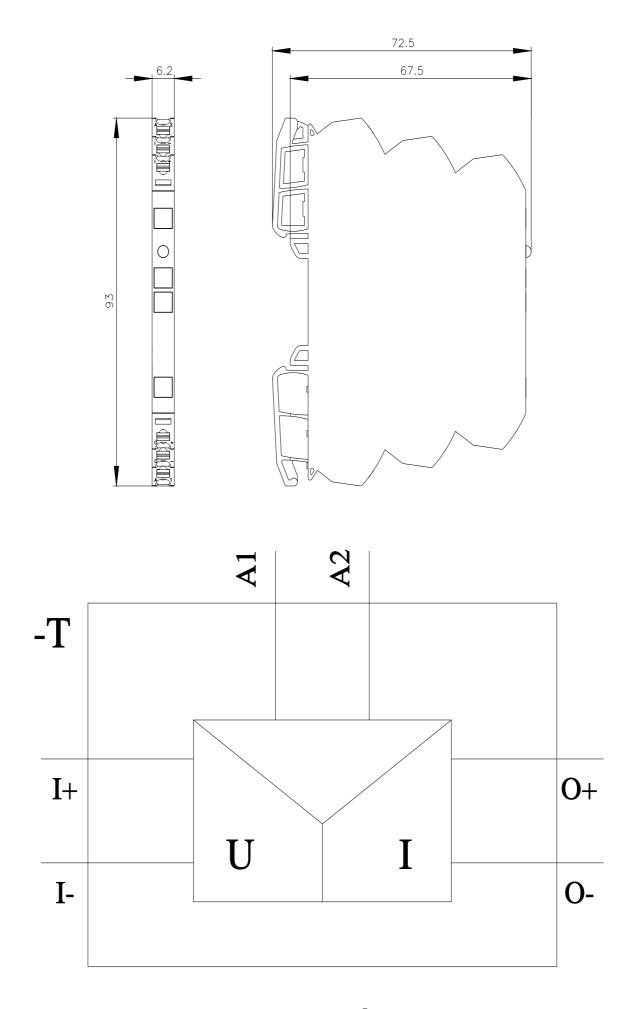
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7000-2DE00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-2DE00

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7000-2DE00/manual



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