SIEMENS

Data sheet 3RS7002-1CE00



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

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 short-circuit proof	Yes
type of signal at input	0 20 mA

type of signal at output	
	0 20 mA
input impedance of current input maximum	100 Ω
output load • at the current output maximum	500 Ω
Electromagnetic compatibility	300 12
	Favirance at D
EMC emitted interference according to IEC 60947-1	Environment B
EMC immunity according to IEC 60947-1 conducted interference	corresponds to degree of severity 3
due to burst according to IEC 61000-4-4	1 kV 5/50 ns
due to built according to IEO 01000-4-4 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	screw-type terminals
type of connectable conductor cross-sections	1v /0.25 2.5 mm²\
Solid Finally stranded with core and processing	1x (0.25 2.5 mm²)
 finely stranded with core end processing at AWG cables solid 	1x (0.25 1.5 mm²) 1 x (20 14)
connectable conductor cross-section	1 X (20 1 1)
solid	0.25 2.5 mm²
finely stranded with core end processing	0.25 1.5 mm²
AWG number as coded connectable conductor cross	
section	
• solid	20 14
tightening torque with screw-type terminals	0.5 0.6 N·m
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	93 mm
width	6.2 mm
width	
depth	72.5 mm
depth required spacing	72.5 mm
depth required spacing • with side-by-side mounting	
depthrequired spacingwith side-by-side mounting— forwards	0 mm
depth required spacing ● with side-by-side mounting — forwards — backwards	0 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards	0 mm
depth required spacing ● with side-by-side mounting — forwards — backwards	0 mm 0 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards	0 mm 0 mm 0 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side	0 mm 0 mm 0 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts	0 mm 0 mm 0 mm 0 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards — at the side — for live parts	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards — at the side — forwards — at the side — forwards	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — backwards — upwards — at the side — for grounded parts — backwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards • to rlive parts — forwards — upwards • for live parts — forwards — backwards — upwards	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — backwards — upwards • for live parts — forwards — backwards — upwards — backwards — backwards — backwards — downwards	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards — at the side	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — backwards — upwards — at the side Ambient conditions	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — at the side Ambient conditions installation altitude at height above sea level maximum	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — backwards — at the side Ambient conditions installation altitude at height above sea level maximum ambient temperature	0 mm
depth required spacing • with side-by-side mounting — forwards — backwards — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards — at the side — downwards • for live parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — backwards — upwards — at the side Ambient conditions installation altitude at height above sea level maximum	0 mm

-40 ... +80 °C 10 ... 95 %

Certificates/ approvals

General Product Approval

Declaration of Conformity



Confirmation









Test Certificates

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RS7002-1CE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7002-1CE00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

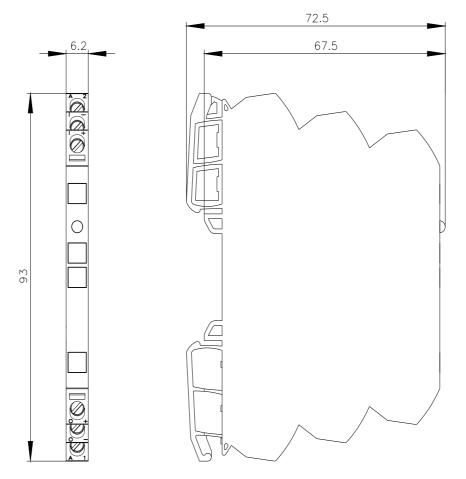
https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-1CE00

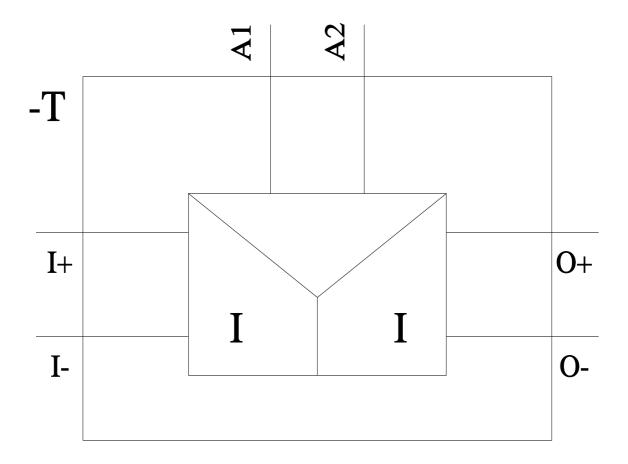
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7002-1CE00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-1CE00/manual





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