SIEMENS

Data sheet

3RS7002-2DE00

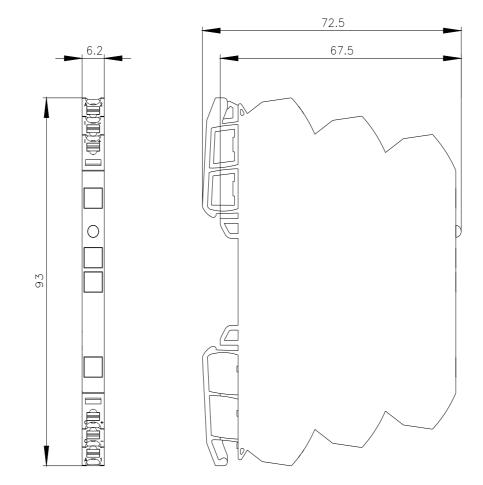


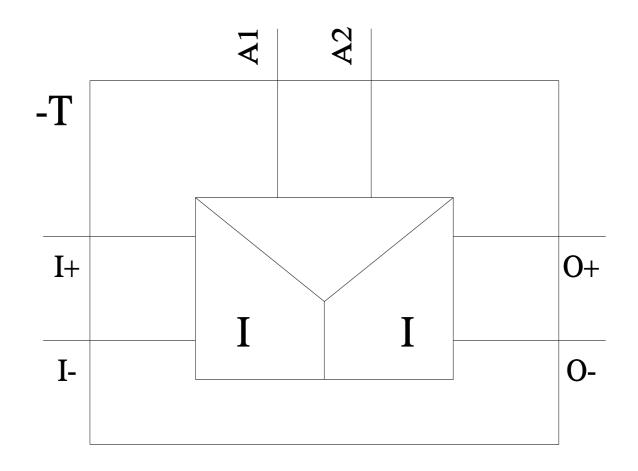
Separation amplifier 24 V AC/DC, 3-way separation input: 0-20 mA output: 4-20 mA Spring-type terminal (push-in)

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			
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			

	4 22 4			
type of signal at output	4 20 mA			
input impedance of current input maximum	100 Ω			
output load	500.0			
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				
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 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)			
 for AWG cables solid 	1 x (20 14)			
 for 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 mm²			
 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 				
— 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	0 mm			
— downwards	0 mm			
— at the side	0 mm			

Ambient conditions						
installation altitude at h	eight above sea level max	kimum	2 000 m			
ambient temperature						
 during operation 			-25 +60 °	С		
 during storage 			-40 +80 °	C		
during transport			-40 +80 °	C		
relative humidity during operation		10 95 %				
Approvals Certificates	-					
General Product Approval				Declaration of Conformity		
(SP)	<u>Confirmation</u>	٩)	EHC	CE EG-Konf.	UK CA
Test Certificates	Marine / Shipping	other				
Type Test Certific- ates/Test Report	ENVILEDING		_			
Further information						
Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). 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=3RS7002-2DE00						
Cax online generator						
	http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7002-2DE00 Service&Support (Manuals, Certificates, Characteristics, FAQs,)					
https://support.industry.siemens.com/cs/ww/en/ps/3RS7002-2DE00						
http://www.automation. Characteristic: Derati	luct images, 2D dimensi siemens.com/bilddb/cax_ ng .siemens.com/cs/ww/en/p	de.aspx?mlfb=3R	S7002-2DE008		ns, EPLAN macros,)	





last modified:

12/23/2020 🖸