SIEMENS

Data sheet

3RS7003-2DE00

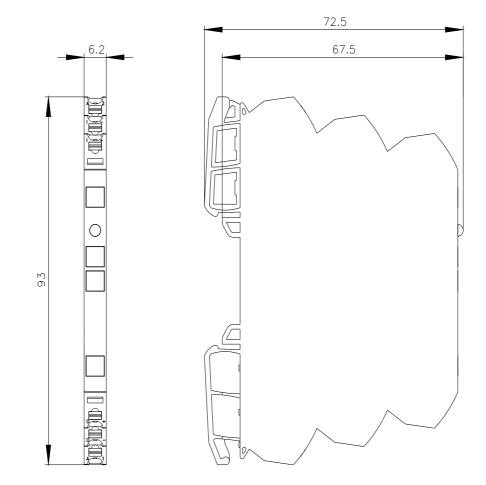


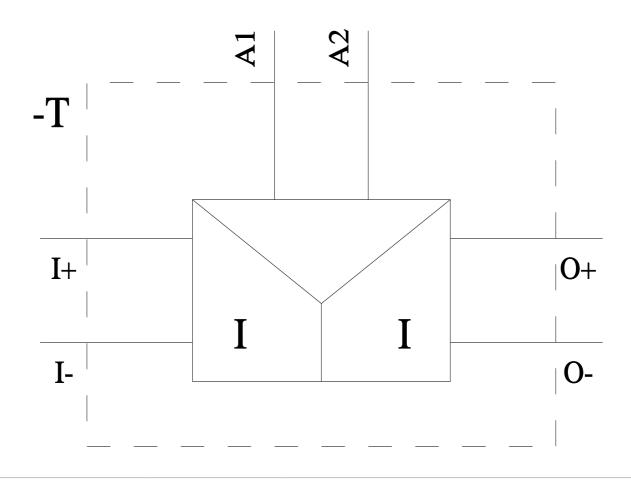
Separation amplifier 24 V AC/DC, 3-way separation input: 4-20 mA output: 4-20 mA Spring-type terminal (push-in)

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				
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				
Weight	0.047 kg				
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 maximum	30 V				
property of the output short-circuit proof	Yes				

type of signal at input	4 20 mA		
type of signal at input			
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 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 terminal (push-in)		
type of connectable conductor cross-sections			
• solid	1x (0.25 2.5 mm²)		
 finely stranded with core end processing 	1x (0.25 1.5 mm ²)		
 finely stranded without core end processing 	1x (0.25 2.5 mm ²)		
for AWG cables solid	1 x (20 14)		
for AWG cables stranded	1x (20 14)		
connectable conductor cross-section			
solid	0.25 2.5 mm²		
 finely stranded with core end processing 	0.25 1.5 mm²		
 finely stranded with core end processing finely stranded without core end processing 	0.25 2.5 mm ²		
AWG number as coded connectable conductor cross section	0.20 2.0 mm		
• 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			
• for live parts — forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		

— at the side		0 m	m				
Ambient conditions							
installation altitude at h	eight above sea level max	kimum 2 00	2 000 m				
ambient temperature							
 during operation 		-25	-25 +60 °C				
 during storage 		-40	-40 +80 °C				
 during transport 		-40	-40 +80 °C				
relative humidity during	operation	10.	10 95 %				
Approvals Certificates							
General Product App	roval				EMV		
SP EM	UK CA	CE EG-Konf.		EAC	KC		
Test Certificates	Marine / Shipping	other	Environment				
<u>Type Test Certific-</u> ates/Test Report		<u>Confirmation</u>	Environmental Con- firmations				
Further information							
Information on the pa		/400040075					
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