SIEMENS

Data sheet

3RS7020-2ET00



Separation amplifier Loop power isolator, 1-channel input: 4-20 mA output: 4-20 mA Width 6.2 mm Spring-type terminal (push-in)

product brand name	SIRIUS		
product category	Signal converter		
product designation	Single-range converters		
design of the product	passive		
product type designation	3RS70		
General technical data			
display version LED	No		
number of channels	1		
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	50 V		
voltage drop at operating equipment	4.1 V		
surge voltage resistance rated value	1 500 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		
Precision			
relative metering precision	0.1 %		
temperature drift per °C	0.015 %/°C		
voltage ripple maximum	5 mV		
settling time for 1 % deviation	6 ms		
Inputs/ Outputs			
input voltage	30 V		
property of the output short-circuit proof	No		
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 	1 000 Ω		
influence of the output load on measuring accuracy	0.06 %/100 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	2 paths			
galvanic isolation				
 between input and output 	Yes			
 between the outputs 	No			
between the inputs	No			
 between the voltage supply and other circuits 	No			
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 mm ²)			
at AWG cables solid	1 x (20 14)			
 at 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 mm ²			
 finely stranded with one one processing 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	71 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			
— upwards — downwards	0 mm 0 mm			
— at the side	0 mm			
Ambient conditions				
	2 000 m			
installation altitude at height above sea level maximum	2 000 m			
ambient temperature	25 160 %0			
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







Type Test Certificates/Test Report

Marine / Shipping



Confirmation

other

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=3RS7020-2ET00 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7020-2ET00 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RS7020-2ET00 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7020-2ET00&lang=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RS7020-2ET00/manual

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