## **SIEMENS**

Data sheet 3RS7005-2FW00



Signal converter 24-240 V AC/DC, 3-way separation Input: 0-10 V, 0/4 - 20 mA; Output: 0 - 10 V, 0/4 - 20 mA Spring-type terminal (push-in)

product brand name	SIRIUS
product category	Signal converter
product designation	multi-range converters
design of the product	active, switchable
product type designation	3RS70
General technical data	
display version LED	Yes
number of channels	1
consumed active power	0.5 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
surge voltage resistance rated value	4 000 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	
<ul> <li>at 50 Hz rated value</li> </ul>	24 240 V
at 60 Hz rated value	24 240 V
supply voltage at DC rated value	24 240 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

manager of the automoted band about	Voc		
property of the output short-circuit proof	Yes		
type of signal at input	0 10 V, 0 20 mA, 4 20 mA		
type of signal at output	0 10 V, 0 20 mA, 4 20 mA		
input impedance of current input maximum	100 Ω		
input impedance of voltage input minimum	330 kΩ		
output load			
at voltage output minimum	2 kΩ		
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			
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	1 kV 5/50 ns		
due to conductor-conductor surge according to IEC	1 kV		
61000-4-5	40.1//		
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			
<ul> <li>between input and output</li> </ul>	Yes		
<ul> <li>between the outputs</li> </ul>	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)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.25 1.5 mm²)		
<ul> <li>finely stranded without core end processing</li> </ul>	1x (0.25 2.5 mm²)		
<ul> <li>at AWG cables solid</li> </ul>	1 x (20 14)		
at AWG cables stranded	1x (20 14)		
connectable conductor cross-section			
• solid	0.25 2.5 mm <sup>2</sup>		
<ul> <li>finely stranded with core end processing</li> </ul>	0.25 1.5 mm <sup>2</sup>		
finely stranded without core end processing	0.25 2.5 mm²		
AWG number as coded connectable conductor cross			
section	22 44		
• solid	20 14		
• stranded	20 14		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	snap-on mounting		
height	93 mm		
width	17.5 mm		
depth	72.5 mm		
required spacing			
<ul><li>with side-by-side mounting</li></ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— downwards	0 mm		
— at the side	0 mm		
<ul> <li>for grounded parts</li> </ul>			
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
<ul> <li>for live parts</li> </ul>			

General Product Approval		Declaration of	Tost Cortificatos
Certificates/ approvals			
relative humidity during operation	10 95 %		
during transport	-40 +80 °C		
during storage	-40 +80 °C		
<ul><li>during operation</li></ul>	-25 +60 °C		
ambient temperature			
installation altitude at height above sea level maximum	2 000 m		_
Ambient conditions			
— at the side	0 mm		
— downwards	0 mm		
— upwards	0 mm		
— backwards	0 mm		
— forwards	0 mm		

**General Product Approval** 

Confirmation







Conformity

Type Test Certificates/Test Report

**Test Certificates** 

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=3RS7005-2FW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7005-2FW00

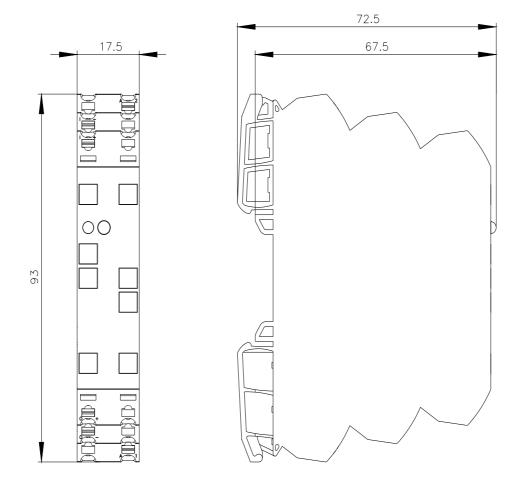
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2FW00

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RS7005-2FW00&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RS7005-2FW00&lang=en</a>

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2FW00/manual



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