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 product category product designation design of the product product type designation SIRIUS Signal converter multi-range converters active, switchable 3RS70

General technical data
display version LED
number of channels
consumed active power
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value
surge voltage resistance rated value
protection class IP
shock resistance according to IEC 60068-2-27
vibration resistance according to IEC 60068-2-6
reference code according to IEC 81346-2
Substance Prohibitance (Date)
Supply voltage

Yes 1 0.5 W 300 V 4 000 V IP20 sinusoidal half-wave 15g / 11 ms 6 ... 150 Hz: 2 g T 03/25/2015

oupply voltage	
supply voltage at AC	
at 50 Hz rated value	
at 60 Hz rated value	
supply voltage at DC rated value	
supply voltage frequency rated value	
operating range factor supply voltage rated value	
at AC at 50 Hz	
at AC at 60 Hz	

24 240 V	
60 50 Hz	
0.8 1.1	
0.8 1.1	
0.8 1.1	

Precision
relative metering precision
relative linearity deviation
temperature drift per °C
voltage ripple maximum
limit frequency
settling time for 1 % deviation
rise time
Main circuit

0.1 %	
0.05 %	
0.015 %/°C	
20 mV	
30 Hz	
17 ms	
6 ms	

type of voltage
Inputs/ Outputs
input voltage
property of the output short-circuit proof

• at DC

710/0	•

24 ... 240 V 24 ... 240 V

30 V	
Yes	
0	10 \

type of signal at input

type of cianal at output	0 10 V 0 20 mA 4 20 mA
type of signal at output input impedance of current input maximum	0 10 V, 0 20 mA, 4 20 mA 100 Ω
input impedance of current input maximum input impedance of voltage input minimum	330 kΩ
output load	000 K12
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	concepting to degree of deventy o
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)
 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 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	17.5 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 — at the side	0 mm
— at the side — downwards	0 mm 0 mm
downwards for live parts	V IIIIII
for live parts — forwards	0 mm
— lorwards — backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
at the olde	V IIIII

Ambient conditions

installation altitude at height above sea level maximum

ambient temperature

- during operation
- during storage
- during transport

relative humidity during operation

2 000 m

-25 ... +60 °C

-40 ... +80 °C

-40 ... +80 °C 10 ... 95 %

General Product Approval

Certificates/ approvals

Declaration of Conformity



Confirmation









Test Certificates

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

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=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,...)

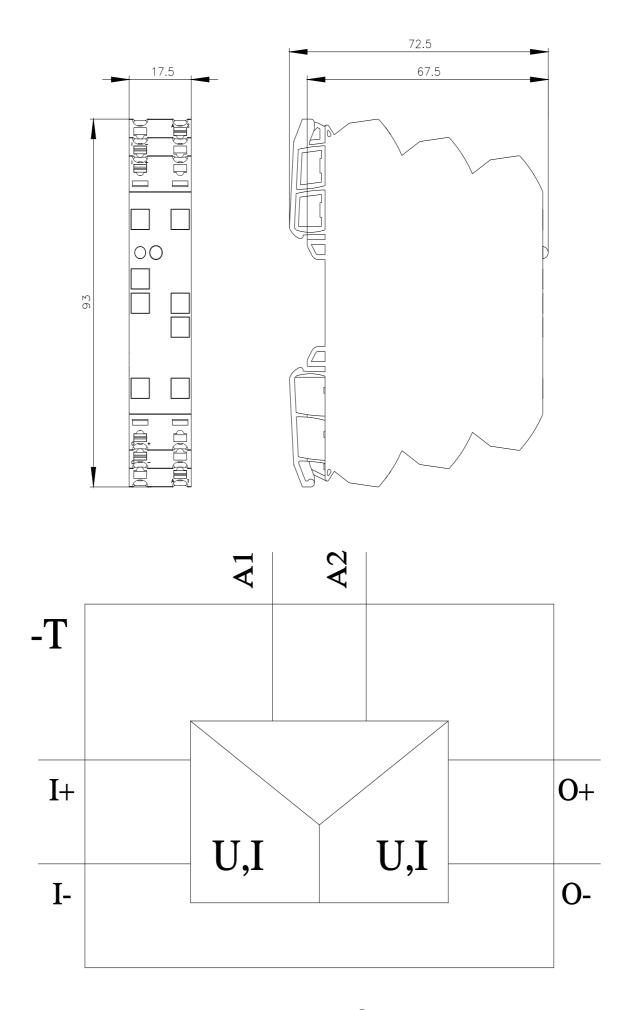
https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2FW00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2FW00&lang=en

Characteristic: Derating

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



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