SIEMENS

Data sheet

3RS7005-1FW00

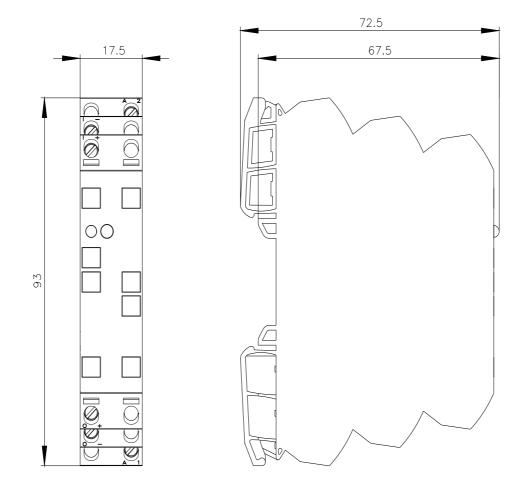


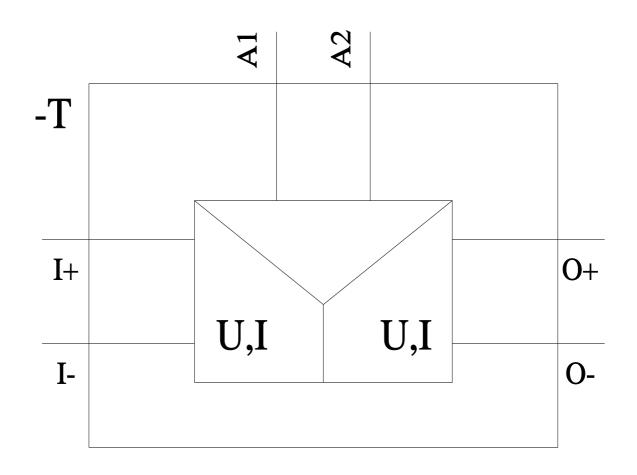
Signal converter 24-240 V AC/DC, 3-way separation Input: 0-10 V, 0/4-20 mA Output: 0-10 V, 0/4 - 20 mA Screw terminal

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				
• at 50 Hz rated value	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			
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					
 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	screw-type 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)				
 for AWG cables solid 	1 x (20 14)				
connectable conductor cross-section					
• solid	0.25 2.5 mm ²				
finely stranded with core end processing	0.25 1.5 mm²				
AWG number as coded connectable conductor cross section					
• solid	20 14				
tightening torque with screw-type terminals	0.5 0.6 N·m				
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	0 mm				
— at the side	0 mm				
- downwards	0 mm				
for live parts	0				
— forwards	0 mm				
— backwards	0 mm 0 mm				
— upwards — 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 °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		
(SP) Car	<u>Confirmation</u>	(h) 	E	AC	CE EG-Konf.	UK CA
Test Certificates	Marine / Shipping	other				
Type Test Certific- ates/Test Report		<u>Confirmation</u>	511			
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=3RS7005-1FW00 Cax online generator						
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Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-1FW00						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-1FW00⟨=en Characteristic: Derating https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-1FW00/manual						





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