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 multi-range converters design of the product product gesignation garsy active switchable product type designation garsy or some state of the product gesignation or some state of the product garsy or some state or some st				
product designation multi-range converters design of the product period active, switchable product type designation 3RS70 Ceneral technical data display version LED Yes Unimper of channels 1 Consumed active power 0.5 W Insulation voltage for overvoltage category Ill according to IEC 00664 with degree of politulor 3 rated value 2 4 000 V Universitance according to IEC 600684-2-27 Sinusoidal half-wave 15g / 11 ms Vibration resistance according to IEC 60068-2-6 6 150 Hz: 2 g reference code according to IEC 60068-2-6 6 150 Hz: 2 g reference code according to IEC 60068-2-6 T J Substance Prohibitance (Date) 03/25/2015 Supply voltage supply voltage 4 AC 4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0	product brand name	SIRIUS		
design of the product product type designation 3RS70	product category	Signal converter		
Description SRS70	product designation	multi-range converters		
Concrat technical data Consumed active power Con	design of the product	active, switchable		
display version LED	product type designation	3RS70		
Number of channels	General technical data			
Consumed active power 0.5 W	display version LED	Yes		
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 2 4 000 V protection class IP	number of channels	1		
Surge voltage resistance rated value 4 000 V	consumed active power	0.5 W		
protection class IP		300 V		
Shock resistance according to IEC 60068-2-27 Sinusoidal half-wave 15g / 11 ms	surge voltage resistance rated value	4 000 V		
vibration resistance according to IEC 60068-2-6 6 150 Hz: 2 g reference code according to IEC 81346-2 T 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 60 50 Hz operating range factor supply voltage rated value 60 50 Hz • 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 0.1 % 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 4C/DC Inputs/ Outputs input voltage 30 V	protection class IP	IP20		
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supply voltage frequency rated value operating range factor supply voltage rated value • at AC at 50 Hz • at AC at 60 Hz • at DC O.8 1.1 • at DC 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 type of voltage input voltage 30 V	at 60 Hz rated value	24 240 V		
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● at DC 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 type of voltage Inputs/ Outputs input voltage 30 V	• at AC at 50 Hz	0.8 1.1		
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temperature drift per °C voltage ripple maximum 20 mV limit frequency 30 Hz settling time for 1 % deviation rise time 6 ms Main circuit type of voltage AC/DC Inputs/ Outputs input voltage 30 V	relative metering precision	0.1 %		
voltage ripple maximum limit frequency settling time for 1 % deviation 17 ms rise time 6 ms Main circuit type of voltage Inputs/ Outputs input voltage 30 V	relative linearity deviation	0.05 %		
limit frequency 30 Hz settling time for 1 % deviation 17 ms rise time 6 ms Main circuit type of voltage Inputs/ Outputs input voltage 30 V	temperature drift per °C	0.015 %/°C		
settling time for 1 % deviation 17 ms rise time 6 ms Main circuit type of voltage AC/DC Inputs/ Outputs input voltage 30 V	voltage ripple maximum	20 mV		
rise time 6 ms Main circuit type of voltage AC/DC Inputs/ Outputs input voltage 30 V	limit frequency	30 Hz		
Main circuit type of voltage AC/DC Inputs/ Outputs input voltage 30 V	settling time for 1 % deviation	17 ms		
type of voltage AC/DC Inputs/ Outputs input voltage 30 V	rise time	6 ms		
Inputs/ Outputs input voltage 30 V	Main circuit			
input voltage 30 V	type of voltage	AC/DC		
	Inputs/ Outputs			
property of the output short-circuit proof Yes	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	210		
at voltage output minimum	2 kΩ		
at the current output maximum Electromagnetic competibility	500 Ω		
Electromagnetic compatibility	Environment B		
EMC emitted interference according to IEC 60947-1 EMC immunity according to IEC 60947-1	corresponds to degree of severity 3		
conducted interference	Corresponds to degree or severity 3		
due to burst according to IEC 61000-4-4	1 kV 5/50 ns		
due to conductor-conductor surge according to IEC	1 kV		
61000-4-5			
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)		
• for AWG cables solid	1 x (20 14)		
for AWG cables stranded	1x (20 14)		
connectable conductor cross-section			
• solid	0.25 2.5 mm ²		
finely stranded with core end processing	0.25 1.5 mm ² 0.25 2.5 mm ²		
finely stranded without core end processing AWG number as coded connectable conductor cross section	U.25 2.5 Hilli		
• 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	0 mm		
— at the side	0 mm		
— downwards	0 mm		
• for live parts	0		
— forwards	0 mm		
— backwards	0 mm		

— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	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

Confirmation



EAC



Declaration of Conformity



Test Certificates

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

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=3RS7005-2FW00

Cax online generator

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

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

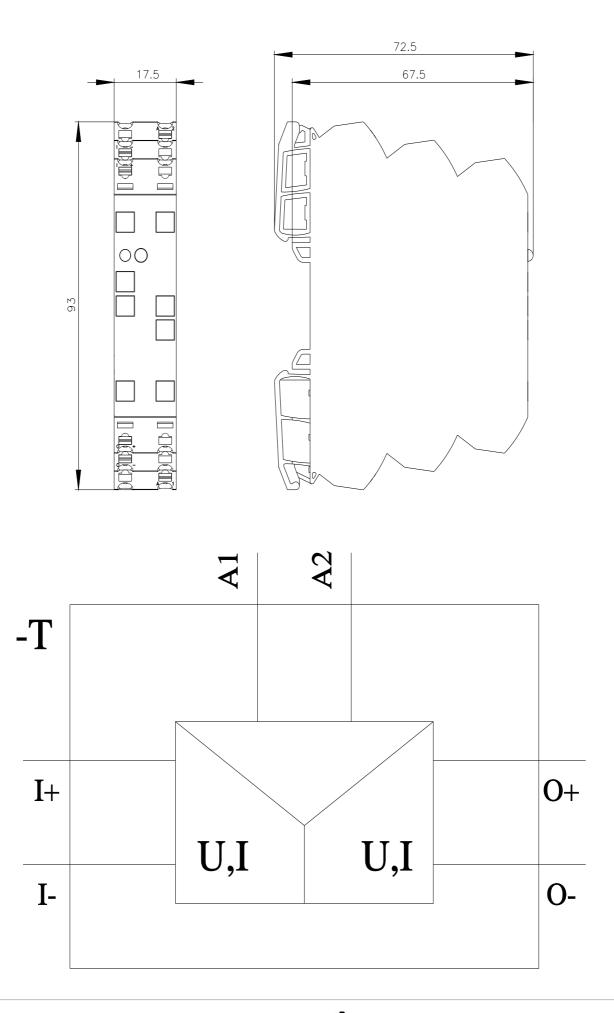
https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2FW00

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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