SIEMENS

Data sheet 3RS7005-1FE00



Separation amplifier 24 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	0.29 W
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	50 V
surge voltage resistance rated value	2 500 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
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 V
at 60 Hz rated value	24 V
supply voltage at DC rated value	24 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

Input impedance of current input maximum 100 Ω input impedance of voltage input minimum 330 kΩ output load • at voltage output minimum • at voltage output minimum 2 kΩ • at voltage output minimum 500 Ω Electromagnetic compatibility • Electromagnetic compatibility EMC emitted interference according to IEC 60947-1 Environment B • due to bust according to IEC 61000-4-4 1 kV 5/50 ns • due to conductor-conductor surge according to IEC 61000-4-3 10 V/m • dele to conductor-conductor surge according to IEC 61000-4-3 10 V/m • lectrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge Galvanic isolation 3 paths • solution 3 paths • between input and output Yes • between the voltage supply and other circuits Yes • between the voltage supply and other circuits Yes • between the voltage supply and other circuits Yes • between the voltage supply and other circuits Yes • between the voltage supply and other circuits Yes • connectable conductor cross-sections 1 x (tune of signal at output	0 10 1/ 0 20 m/ 1 20 m/
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2 000 m installation altitude at height above sea level maximum ambient temperature • during operation -25 ... +60 °C -40 ... +80 °C during storage -40 ... +80 °C • during transport relative humidity during operation 10 ... 95 %

Approvals Certificates

General Product Approval







Confirmation





Test Certificates

Marine / Shipping

other

Type Test Certificates/Test Report



Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

om/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=3RS7005-1FE00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7005-1FE00

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

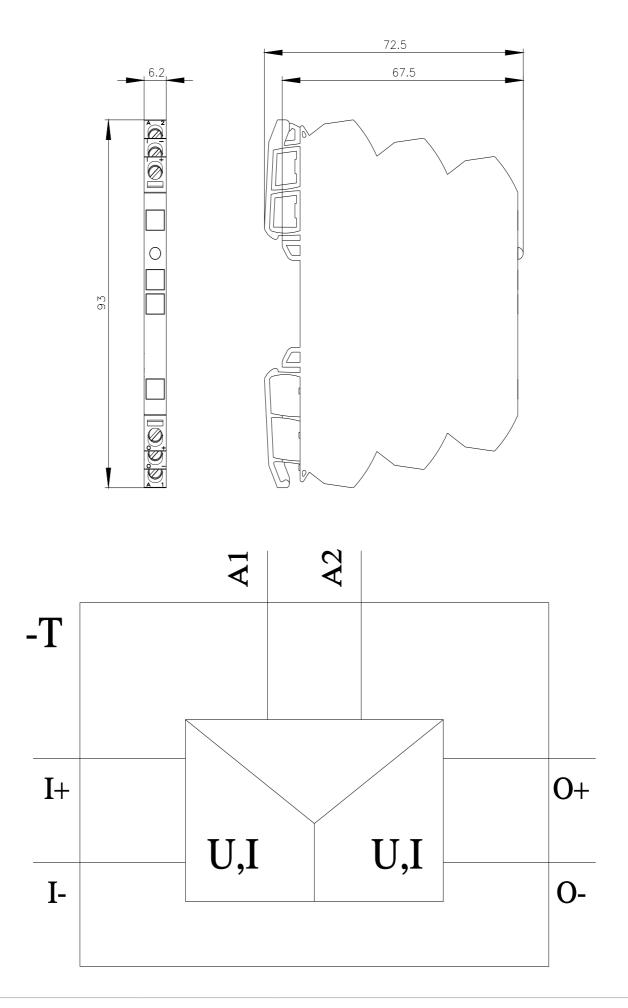
https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-1FE00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-1FE00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-1FE00/manual



last modified: 12/21/2020 🖸

