SIEMENS

Data sheet 3RS7005-1KE00



Separation amplifier 24 V AC/DC, 3-way separation input: 0-10 V, 0/4-20 mA output: 0-50/100 Hz/1/10 kHz 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
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 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
limit frequency	30 Hz
settling time for 1 % deviation	17 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

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type of signal at output	0 50 Hz, 0 100 Hz, 0 1 kHz, 0 10 kHz
input impedance of current input maximum	100 Ω
input impedance of voltage input minimum	330 kΩ
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	411/5/50
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)
at AWG cables solid	1 x (20 14)
connectable conductor cross-section	
• solid	0.25 2.5 mm²
 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	6.2 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	
— 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	
ambient temperature	

during operation
 during storage
 during transport
 during transport
 multiple storage
 during transport
 during transport
 multiple storage
 multiple storage

Certificates/ approvals

General Product Approval

Declaration of Conformity

Test Certificates



Confirmation



EAC



Type Test Certificates/Test Report

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=3RS7005-1KE00

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RS7005-1KE00}$

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

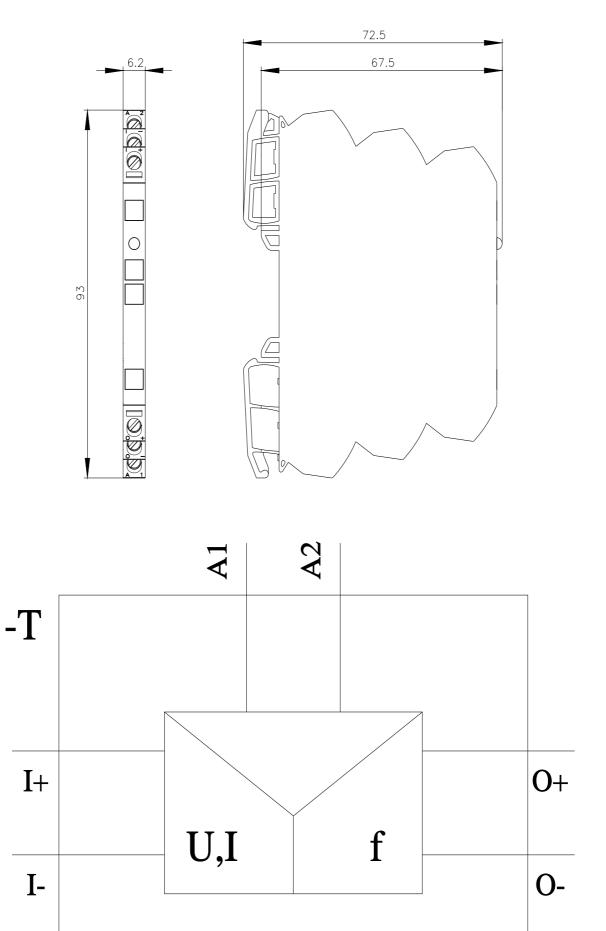
https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-1KE00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-1KE00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-1KE00/manual



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