SIEMENS

Data sheet 3RS7005-2KW00



Signal converter 24-240 V AC/DC, 3-way separation Input: 0-10 V, 0/4 - 20 mA; Output: 0-50/100 Hz/1/10 kHz; Spring-type terminal (push-in)

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	0.34 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
limit frequency	30 Hz
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 50 Hz, 0 100 Hz, 0 1 kHz, 0 10 kHz

input impedance of current input maximum	100 Ω
input impedance of current input maximum input impedance of voltage input minimum	330 kΩ
Electromagnetic compatibility	000 N22
	Facility
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	1 kV 5/50 ns
 due to burst according to IEC 61000-4-4 due to conductor-conductor surge according to IEC 	1 kV
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 mm²
finely stranded without core end processing	0.25 2.5 mm²
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	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	
 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

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=3RS7005-2KW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7005-2KW00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2KW00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-2KW00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-2KW00/manual

