SIEMENS

Data sheet 3RS7025-1FW00



Signal converter with Manual-Auto switch 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, with manual/automatic switching and setting potentiometer	
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 acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms	
vibration resistance acc. to IEC 60068-2-6	6 150 Hz: 2 g	
reference code acc. to IEC 81346-2	T	
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	

Imputed Outroute	
Inputs/ Outputs	20.1/
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
Outputs	
output load	
 at voltage output minimum 	2 kΩ
at the current output maximum	500 Ω
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 60947-1	Environment B
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
due to burst acc. to IEC 61000-4-4	1 kV 5/50 ns
 due to conductor-conductor surge acc. to IEC 	1 kV
61000-4-5	
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. 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
connectable conductor cross-section finely stranded	0.25 1.5 mm ²
with core end processing	0.20 1.0 11111
AWG number as coded connectable conductor	20 14
cross section solid	20 14
tightening torque with screw-type terminals	0.5 0.6 N·m
Installation/ mounting/ dimensions	
3	201/
mounting position fastening method	snap-on mounting
height	93 mm
width	17.5 mm
depth	75 mm
required spacing	7 0 111111
with side-by-side mounting	
with side-by-side modifiling — forwards	0 mm
— lorwards — backwards	0 mm
	0 mm
— upwards	
— downwards	0 mm
— at the side	0 mm
for grounded parts	0
— forwards	0 mm
— backwards	0 mm
— upwards— at the side	0 mm
3T TDQ SIDQ	0 mm

ambient temperature during storage ambient temperature during transport relative humidity during operation Certificates/ approvals	2 000 m -25 +60 °C -40 +80 °C -40 +80 °C 10 95 %	
ambient temperature during transport	-25 +60 °C -40 +80 °C -40 +80 °C	
	-25 +60 °C -40 +80 °C	
 ambient temperature during storage 	-25 +60 °C	
 ambient temperature during operation 	2 000 m	
installation altitude at height above sea level maximum		
Ambient conditions		
— at the side	0 mm	
— downwards	0 mm	
— upwards	0 mm	
— backwards	0 mm	
— forwards	0 mm	
for live parts		
— downwards	0 mm	

General Product Approval







Miscellaneous



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=3RS7025-1FW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7025-1FW00

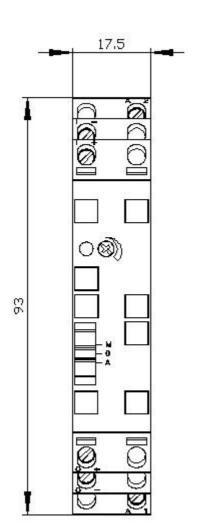
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

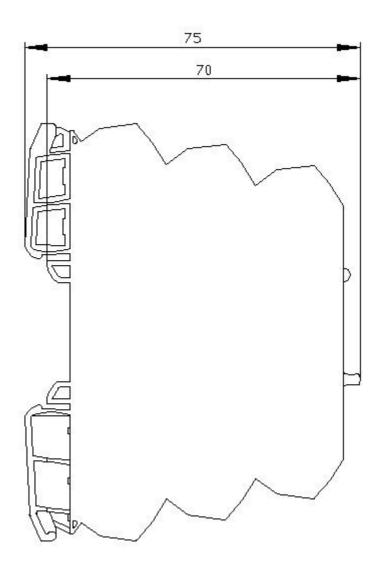
https://support.industry.siemens.com/cs/ww/en/ps/3RS7025-1FW00

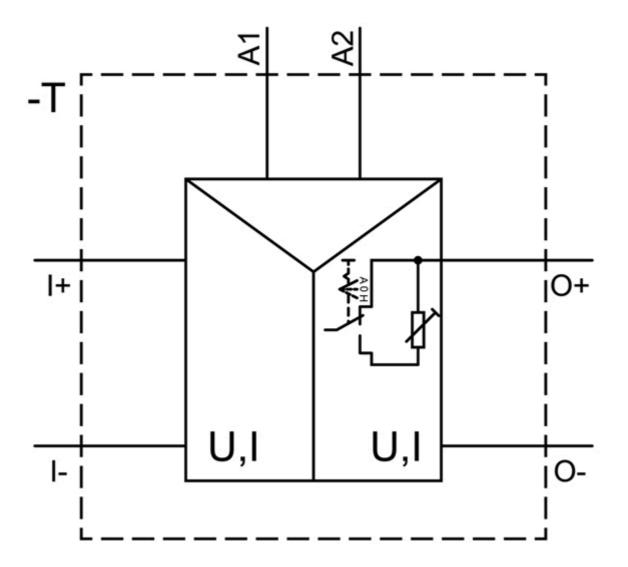
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RS7025-1FW00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7025-1FW00/manual







last modified: 5/15/2020 🖸