## **SIEMENS**

Data sheet 3RS7025-2FW00



Separation amplifier 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 Spring-type terminal (push-in)

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 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		
<ul> <li>at 50 Hz rated value</li> </ul>	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	
Inputs/ Outputs		

imput voltage	30 V
input voltage	
property of the output short-circuit proof	Yes 20 mA 4 20 mA
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	2 kΩ
at voltage output minimum	
at the current output maximum	500 Ω
Electromagnetic compatibility	5 : 40
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
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	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	o panio
between input and output	Yes
between the outputs	No
between the inputs	No
between the voltage supply and other circuits	Yes
Connections/ Terminals	1.00
type of electrical connection	spring-loaded terminals
type of connectable conductor cross-sections	Spring-loaded terminals
• solid	1x (0.25 2.5 mm²)
finely stranded with core end processing	1x (0.25 1.5 mm²)
finely stranded with our 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	1. (20 11)
• solid	0.25 2.5 mm <sup>2</sup>
finely stranded with core end processing	0.25 1.5 mm <sup>2</sup>
finely stranded without core end processing	0.25 2.5 mm <sup>2</sup>
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	75 mm
required spacing	
<ul><li>with side-by-side mounting</li></ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— 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
<ul><li>downwards</li></ul>	0 mm
— at the side	0 mm
Ambient conditions	
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
	2 000 m
installation altitude at height above sea level maximum	2 000 m -25 +60 °C
installation altitude at height above sea level maximum ambient temperature	
installation altitude at height above sea level maximum  ambient temperature  • during operation	-25 +60 °C
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage	-25 +60 °C -40 +80 °C

## **General Product Approval**

**Declaration of** Conformity

**Test Certificates** 



Confirmation





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=3RS7025-2FW00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7025-2FW00

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

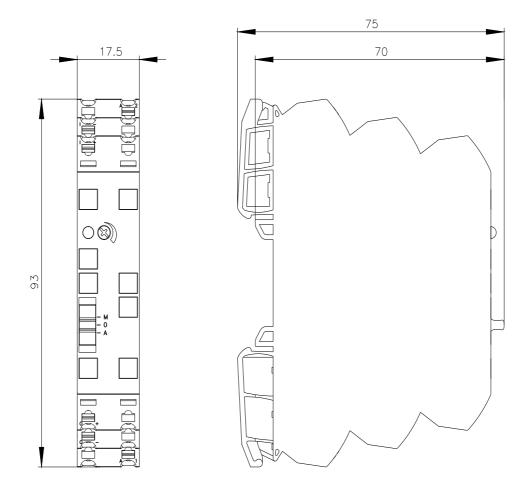
https://support.industry.siemens.com/cs/ww/en/ps/3RS7025-2FW00

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RS7025-2FW00&lang=en

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/3RS7025-2FW00/manual



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