SIEMENS

Data sheet 3RS7006-1FW00

0101110



Separation amplifier 24-240 V AC/DC, 3-way separation input: 0-60 mV, 0-100 mV 0-300 mV, 0-500 mV, 0-1 V 0-20 V, 2-10 V, 0-5 mA, 0-10 mA 2-10 V, 0-5 mA, 0-10 mA 0-20mA, 4-20 mA, +-5 mA, +-20 mA output: 0 - 10 V, 0/4 - 20 mA screw terminal

product brand name	SIRIUS		
product category	Signal converter		
product designation	universal converter		
design of the product	active, switchable		
product type designation	3RS70		
General technical data			
display version LED	Yes		
number of channels	1		
consumed active power	0.5 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		
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		
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 maximum	30 V		
property of the output short-circuit proof	Yes		
type of signal at input	0 60 mV, 0 100 mV, 0 300 mV, 0 500 mV, 0 1 V, 0 2 V, 0 5 V, 0 10 V, 0 20 V, 2 10 V, 0 5 mA, 0 10 mA, 0 20 mA, 4 20 mA,		

	±/5 m/\ ±/20 m/\
type of cianal at output	+/-5 mA, +/-20 mA
type of signal at output	0 10 V, 0 20 mA, 4 20 mA 100 Ω
input impedance of current input maximum	
input impedance of voltage input minimum	330 kΩ
output load	
at voltage output minimum	2 kΩ
at the current output maximum	500 Ω
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	4114.777
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	The second distribution of the second
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 terminal
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)
• for 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	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	0.000
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
• for live parts	0.000
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm

Ambient conditions	ient 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 %				
Approvals Certificates					

General Product Approval







Confirmation





EMV	Test Certificates	Marine / Shipping	other	Environment

<u>KC</u>

Type Test Certificates/Test Report



Confirmation

Environmental Confirmations

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=3RS7006-1FW00

Cax online generator

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

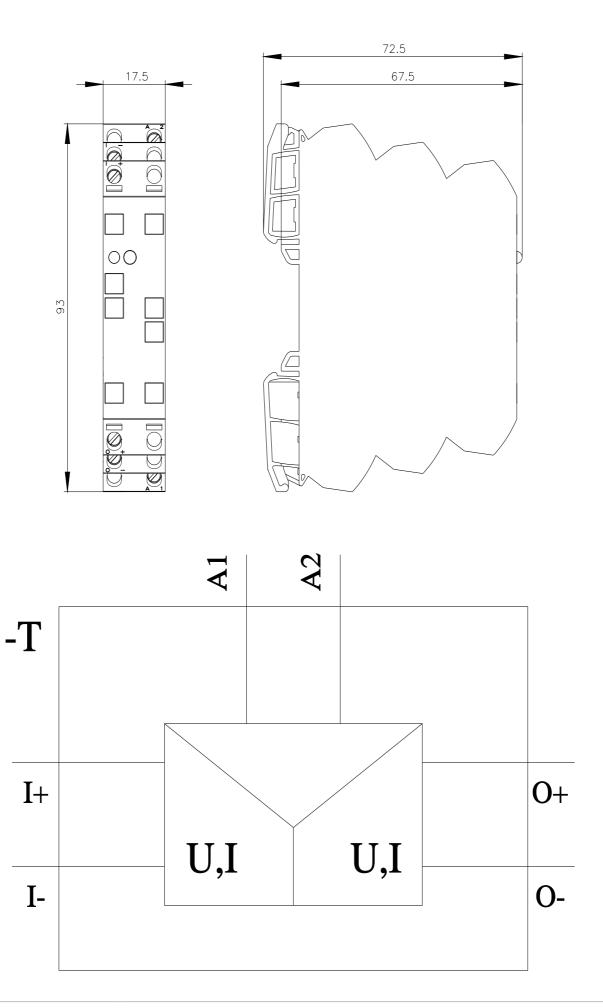
https://support.industry.siemens.com/cs/ww/en/ps/3RS7006-1FW00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7006-1FW00&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RS7006-1FW00/manual



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