SIEMENS

Data sheet 3RS7006-1FW00



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		
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		
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	30 V		

myomouthy of the output about almost	Voc		
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 mA, +/-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			
 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			
 due to burst according to IEC 61000-4-4 	1 kV 5/50 ns		
due to conductor-conductor surge according to IEC	1 kV		
61000-4-5	10 V/m		
field-based interference according to IEC 61000-4-3			
electrostatic discharge according to IEC 61000-4-2 Galvanic isolation	6 kV contact discharge / 8 kV air discharge		
	2 noths		
design of the electrical isolation	3 paths		
galvanic isolation	Voc		
between input and outputbetween the outputs	Yes No		
between the outputs between the inputs	No		
 between the inputs between the voltage supply and other circuits 	No Yes		
Connections/ Terminals	160		
	ecrow type terminals		
type of electrical connection type of connectable conductor cross-sections	screw-type terminals		
solid	1x (0.25 2.5 mm²)		
finely stranded with core end processing	1x (0.25 2.5 mm²)		
at AWG cables solid	1 x (20 14)		
connectable conductor cross-section	· · · (20 ··· · · ·)		
solid	0.25 2.5 mm²		
finely stranded with core end processing	0.25 1.5 mm ²		
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	0.mm		
— forwards	0 mm		
— backwards	0 mm		
— upwards	0 mm		
— at the side	0 mm		
— downwards	0 mm		
	0 mm		
— IOI wal us	0 mm		

General Product Approval		Declaration of	Toot Cortificator	
Certificates/ approvals				
relative humidity during operation	10 95 %			
during transport	-40 +80 °C			
 during storage 	-40 +80 °C			
 during operation 	-25 +60 °C			
ambient temperature				
installation altitude at height above sea level maximum	2 000 m			
Ambient conditions				
— at the side	0 mm			
— downwards	0 mm			
— upwards	0 mm			
— backwards	0 mm			



General Product Approval

Confirmation







Conformity

Type Test Certificates/Test Report

Test Certificates

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=3RS7006-1FW00

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RS7006-1FW00}$

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

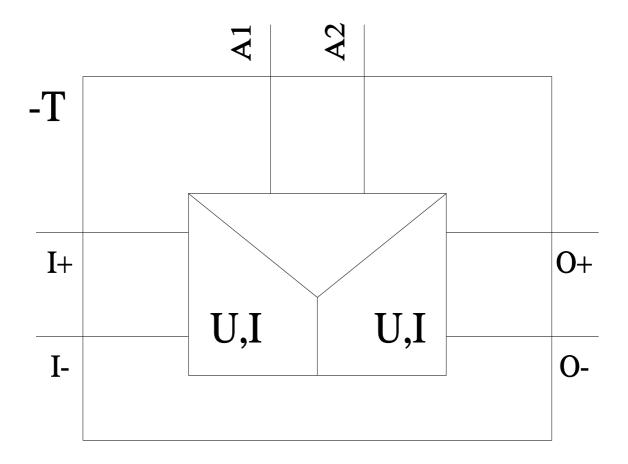
https://support.industry.siemens.com/cs/ww/en/ps/3RS7006-1FW00

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

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



last modified: 12/23/2020 🖸