



SIGNAL CONVERTER 24-240 V UC, 3-WAY
ISOLATION IN: 0 TO 10 V, 0/4 TO 20 MA OUT: 0 TO
50/100 HZ/1/10 KHZ SCREW TERMINAL

Figure similar

Article number		
Product brand name		SIRIUS
Product category		Signal converter
Product designation		Multi-range converters
Design of the product		Switchable multi-range converters, active
Product type designation		3RS70

General technical data		
Display version LED		Yes
Number of channels		1
Consumed active power	W	0.34
Insulation voltage		
• for overvoltage category III according to IEC 60664		
— with degree of pollution 3 rated value	V	300
Surge voltage resistance rated value	V	4 000
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
Equipment marking		
• acc. to DIN EN 61346-2		K
• acc. to DIN EN 81346-2		T

Supply voltage

Supply voltage at AC		
• at 50 Hz rated value	V	24 ... 240
• at 60 Hz rated value	V	24 ... 240
Supply voltage at DC rated value	V	24 ... 240
Supply voltage frequency		
• rated value	Hz	60 ... 50
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	%/°C	0.015
Limit frequency	Hz	30

Main circuit

Type of voltage		AC/DC
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Inputs/ Outputs

Input voltage	V	30
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

Electromagnetic compatibility

EMC emitted interference		
• acc. to IEC 60947-1		Environment B
EMI 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 61000-4-5		1 kV
Field-bound parasitic coupling 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 entrance and outlet		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 mm ²)
• finely stranded with core end processing		1x (0.25 ... 1.5 mm ²)
• at AWG conductors solid		1 x (20 ... 14)
Connectable conductor cross-section		
• solid	mm ²	0.25 ... 2.5
• finely stranded with core end processing	mm ²	0.25 ... 1.5
AWG number as coded connectable conductor cross section		
• solid		20 ... 14
Tightening torque		
• with screw-type terminals	N·m	0.5 ... 0.6

Installation/ mounting/ dimensions

Mounting position		any
Mounting type		snap-on mounting
Height	mm	93
Width	mm	17.5
Depth	mm	72.5
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	0
— downwards	mm	0
• for live parts		
— forwards	mm	0

- Backwards
- upwards
- downwards
- at the side

mm	0
mm	0
mm	0
mm	0

Ambient conditions

Installation altitude at height above sea level		
• maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +80
• during transport	°C	-40 ... +80
Relative humidity		
• during operation	%	10 ... 95

Certificates/approvals

General Product Approval		Declaration of Conformity	Test Certificates	other
				Type Test Certificates/Test Report
CSA	UL		EG-Konf.	Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RS7005-1KW00>

Cax online generator

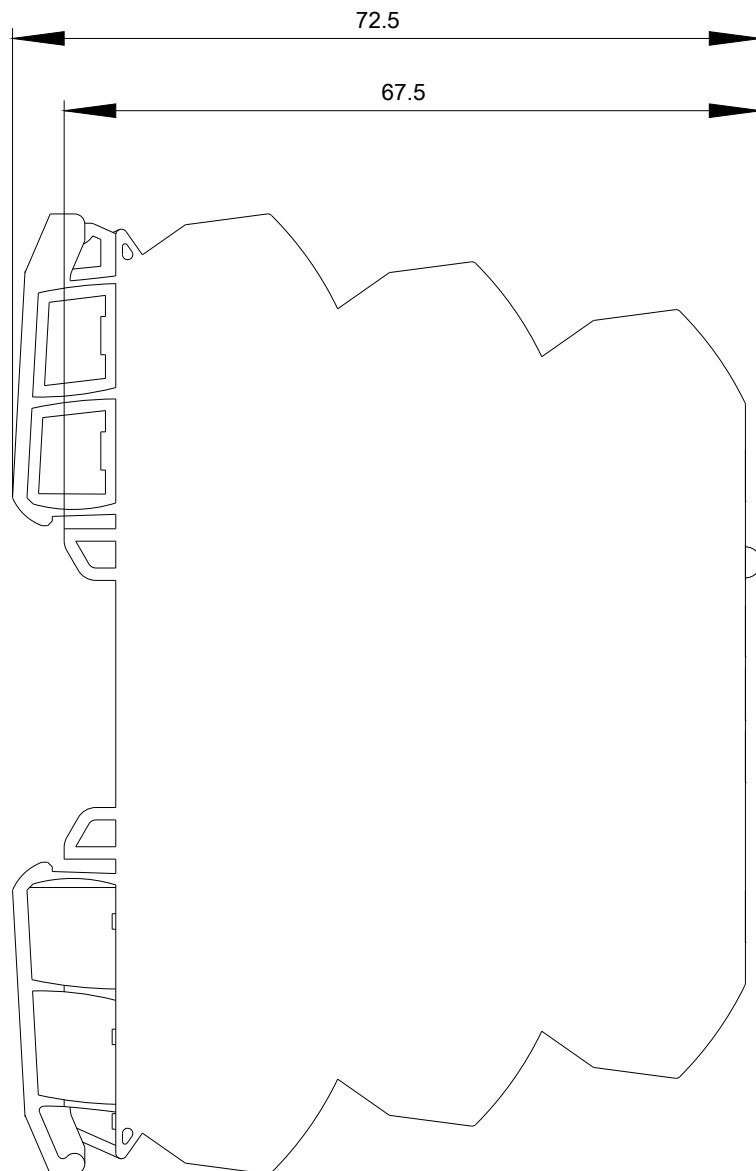
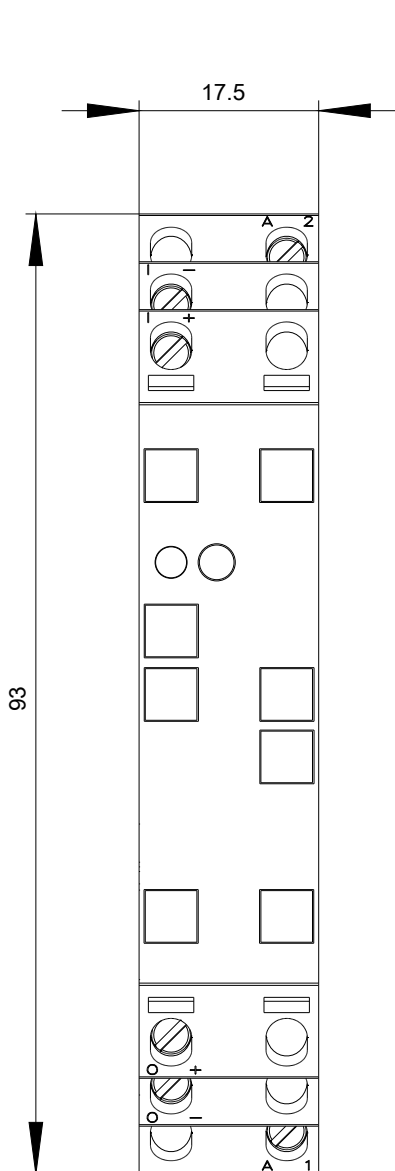
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RS7005-1KW00>

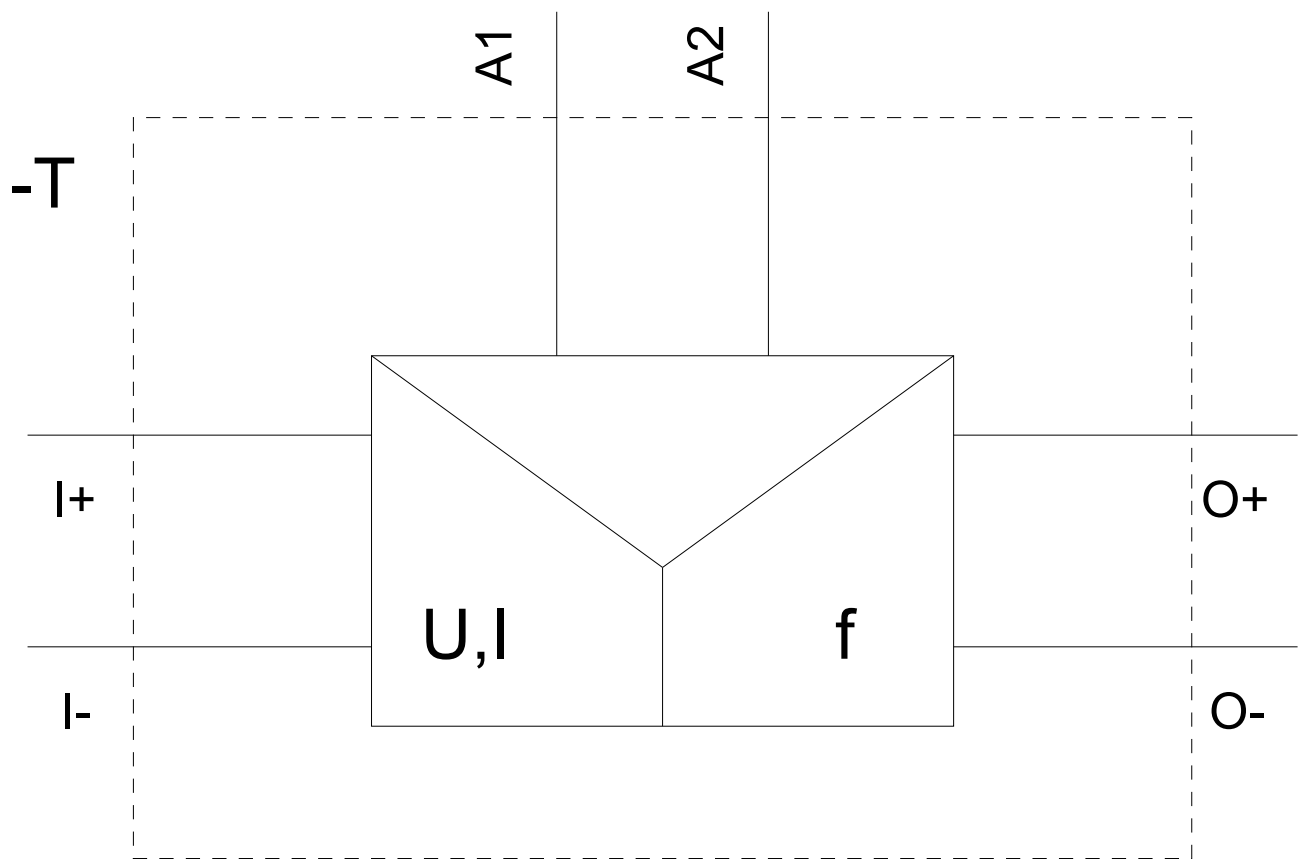
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RS7005-1KW00>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RS7005-1KW00&lang=en





last modified:

07/25/2017 [↗](#)