



INTERFACE CONVERTER AC/DC 24 V,  
2 WAY SEPARATION ON: 0 TO 10 V;  
0/4 TO 20 MA OFF: 0 TO 10 V;  
0/4 TO 20 MA SCREW CONNECTION

General technical details:		
product brand name		SIRIUS
product designation		multi-range converters
Design of the base unit		switchable, active
Number of channels		1
Ambient temperature		
• during operating	°C	-25 ... +60
• during transport	°C	-40 ... +85
• during storage	°C	-40 ... +85
Insulation voltage / for overvoltage category III according to IEC 60664 / with degree of pollution 2 / rated value	V	50
Recorded real power	W	0.3
Protection class IP		IP20
Resistance against vibration / according to IEC 60068-2-6		10 ... 55 Hz: 0.35 mm
Resistance against shock / according to IEC 60068-2-27		15g / 11 ms
Item designation / according to DIN EN 61346-2		K
Item designation / according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K

Connections:		
Design of the electrical connection		screw-type terminals

<b>Tightening torque</b>		
<ul style="list-style-type: none"> <li>with screw-type terminals</li> </ul>	N·m	0.4 ... 0.5
<b>Type of the connectable conductor cross-section</b>		
<ul style="list-style-type: none"> <li>solid</li> <li>finely stranded / with wire end processing</li> <li>for AWG conductors <ul style="list-style-type: none"> <li>stranded</li> </ul> </li> </ul>		1x (0.5 ... 2.5 mm <sup>2</sup> ) 2x (0.5 ... 2.5 mm <sup>2</sup> )  2x (20 ... 16)

#### Galvanic isolation:

<b>Design of the electrical isolation</b>		2 paths
<b>Galvanic isolation</b>		
<ul style="list-style-type: none"> <li>between entrance and outlet</li> <li>between the voltage supply and other circuits</li> </ul>		Yes  No

#### Supply voltage:

<b>type of voltage</b>		AC/DC
<b>Supply voltage frequency</b>		
<ul style="list-style-type: none"> <li>rated value</li> </ul>	Hz	50 ... 60
<b>Supply voltage</b>		
<ul style="list-style-type: none"> <li>at 50 Hz / for AC <ul style="list-style-type: none"> <li>rated value</li> </ul> </li> <li>at 60 Hz / for AC <ul style="list-style-type: none"> <li>rated value</li> </ul> </li> <li>for DC <ul style="list-style-type: none"> <li>rated value</li> </ul> </li> </ul>	V  V  V	24 ... 24  24 ... 24  24 ... 24
<b>Working range factor supply voltage rated value</b>		
<ul style="list-style-type: none"> <li>at 50 Hz / for AC</li> <li>at 60 Hz / for AC</li> <li>for DC</li> </ul>		0.8 ... 1.2 0.8 ... 1.2 0.7 ... 1.25

#### Inputs:

<b>Limit frequency</b>	Hz	30
<b>Input voltage / maximum</b>	V	30
<b>Input voltage / typical</b>	V	24

#### Outputs:

<b>Burden / at the current output / maximum</b>	Ω	400
<b>Burden / at the voltage output / maximum</b>	kΩ	1
<b>Characteristic feature of the output / short-circuit protected</b>		Yes
<b>Overvoltage strength / at the current output / maximum</b>	V	30
<b>Type of signal</b>		

- secondary side
- at the input

0 ... 10 V, 0 ... 20 mA, 4 ... 20 mA

0 ... 10 V, 0 ... 20 mA, 4 ... 20 mA

#### Precision:

Relative metering precision	%	0.1
Relative linearity deviation	%	0.02
Temperature drift per °C	%/°C	0.015
Rise time	ms	10
Settling time / for 1 % conformity error	ms	30
Ripple of voltage / maximum	mV	5

#### Installation/mounting/dimensions:

Type of mounting		snap-on mounting on 35 mm DIN rail according to DIN EN 50022
mounting position		any
Height	mm	79
Width	mm	6.2
Depth	mm	84

#### Certificates/approvals:

General Product Approval

Test Certificates

other



[Special Test Certificate](#)

[Declaration of Conformity](#)

[Environmental Confirmations](#)

#### Further information:

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

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

Industry Mall (Online ordering system)

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

CAX-Online-Generator

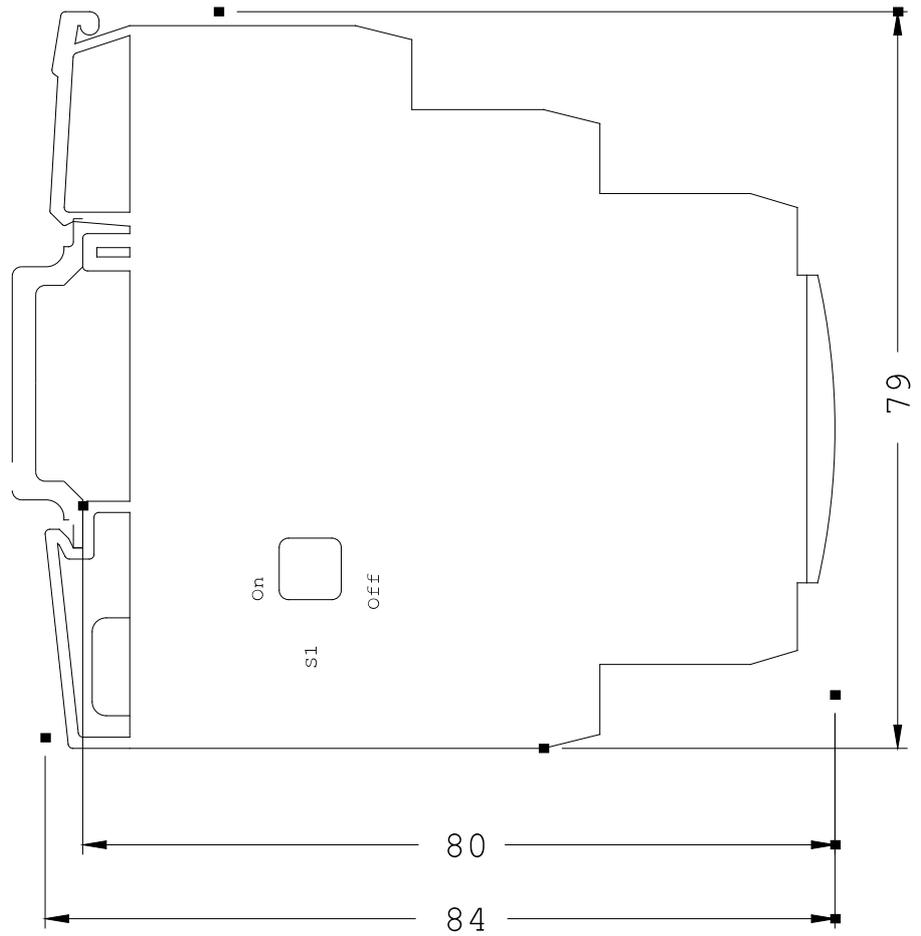
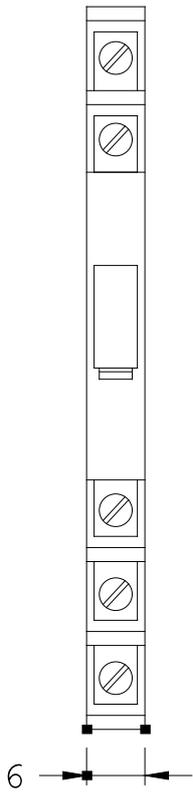
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RS1705-1FD00/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RS1705-1FD00](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RS1705-1FD00)



last change:

Mar 11, 2013