



INTERFACE CONVERTER AC/DC 24 V,  
3 WAY SEPARATION ON: 4 TO 20 MA OFF: 4 TO 20 MA  
SCREW CONNECTION

### General technical details:

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

### Connections:

<b>Design of the electrical connection</b>		screw-type terminals
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<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> </ul>		1x (0.5 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• finely stranded / with wire end processing</li> </ul>		2x (0.5 ... 2.5 mm <sup>2</sup> )
<ul style="list-style-type: none"> <li>• for AWG conductors</li> </ul>		
<ul style="list-style-type: none"> <li>• stranded</li> </ul>		1x (20 ... 16)

#### Galvanic isolation:

<b>Design of the electrical isolation</b>		3 paths
<b>Galvanic isolation</b>		
<ul style="list-style-type: none"> <li>• between entrance and outlet</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• between the voltage supply and other circuits</li> </ul>		Yes

#### 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</li> </ul>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	V	24 ... 24
<ul style="list-style-type: none"> <li>• at 60 Hz / for AC</li> </ul>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	V	24 ... 24
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	V	24 ... 24
<b>Working range factor supply voltage rated value</b>		
<ul style="list-style-type: none"> <li>• at 50 Hz / for AC</li> </ul>		0.8 ... 1.2
<ul style="list-style-type: none"> <li>• at 60 Hz / for AC</li> </ul>		0.8 ... 1.2
<ul style="list-style-type: none"> <li>• for DC</li> </ul>		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>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>		
<ul style="list-style-type: none"> <li>• secondary side</li> </ul>		4 ... 20 mA

• at the input

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	90
Width	mm	6.2
Depth	mm	92.5

#### Certificates/approvals:

General Product Approval

Test Certificates

other



GOST

[Special Test Certificate](#)

[Declaration of Conformity](#)

#### 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

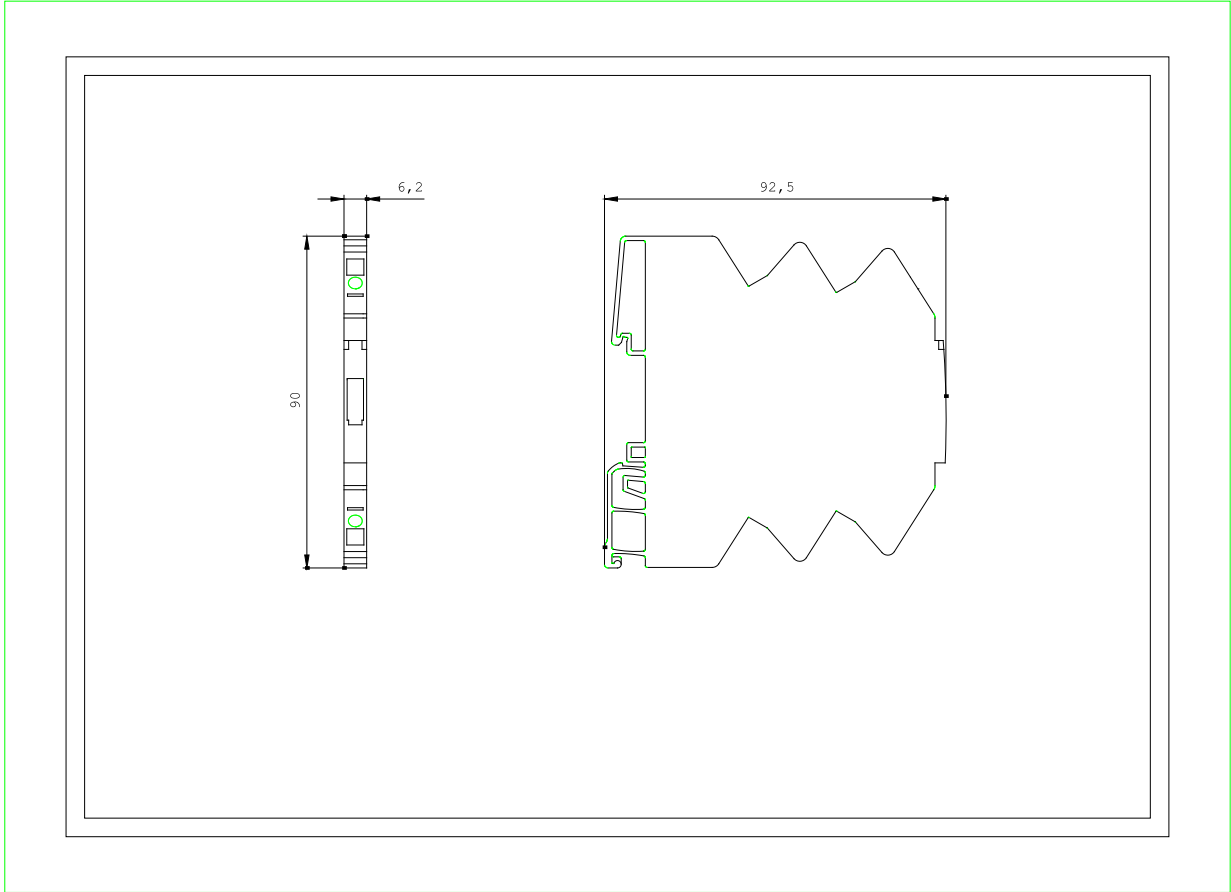
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RS1703-1DE00/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RS1703-1DE00](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RS1703-1DE00)



last change:

Feb 11, 2013