

Current/voltage measuring module V2; set current 10...115 A; voltage measurem. up to 690 V; overall width 55 mm; straight-through transformer; requires basic unit pro V PB in version -ZB01 pro V EIP



Figure similar

<b>Product brand name</b>	SIRIUS
<b>Product designation</b>	Current/voltage measuring module
<b>General technical data</b>	
<b>Product function</b>	
• Current measurement	Yes
• voltage measurement	Yes
• active power measurement	Yes
• Power measurement	Yes
• frequency measurement	Yes
<b>Product component</b>	
• input for thermistor connection	No
<b>Insulation voltage</b>	
• with degree of pollution 3 rated value	690 V
<b>Surge voltage resistance rated value</b>	6 000 V
<b>Protection class IP</b>	IP20
<b>Shock resistance</b>	
• acc. to IEC 60068-2-27	15g / 11 ms

<b>Vibration resistance</b>	1-6 Hz / 15 mm; 6-500 Hz / 2 g
<b>Equipment marking</b>	F
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>	

### Electromagnetic compatibility

<b>EMC emitted interference</b>	class A
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	
<b>EMI immunity acc. to IEC 60947-1</b>	corresponds to degree of severity 3
<b>Conducted interference</b>	
<ul style="list-style-type: none"> <li>• due to burst acc. to IEC 61000-4-4</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>• due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>	2 kV
<ul style="list-style-type: none"> <li>• due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>	1 kV
<b>Field-bound parasitic coupling acc. to IEC 61000-4-3</b>	10 V/m

### Inputs/ Outputs

<b>Number of outputs as contact-affected switching element</b>	0
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### Protective and monitoring functions

<b>Product function</b>	
<ul style="list-style-type: none"> <li>• power factor monitoring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• voltage detection</li> </ul>	Yes

### Motor protection functions

<b>Product function</b>	
<ul style="list-style-type: none"> <li>• Current detection</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Overload protection</li> </ul>	Yes

### Precision

<b>Measuring precision</b>	
<ul style="list-style-type: none"> <li>• of frequency measurement</li> </ul>	+/- 1.5 %, 7.5 ... 230 A, 0.85 x 110 V ... 1.1 x 690 V (line-to-line voltages), cos phi (0.5...1), 50/60 Hz, 25 °C
<ul style="list-style-type: none"> <li>• for current measurement 1</li> </ul>	+/- 1.5 %, in range 7.5 A ... 230 A, 50/60 Hz, 25 °C
<b>Temperature drift per °C</b>	0.01 %/°C

### Installation/ mounting/ dimensions

<b>Mounting position</b>	any
<b>Mounting type</b>	screw and snap-on mounting
<b>Height</b>	94 mm
<b>Width</b>	55 mm
<b>Depth</b>	91 mm
<b>Required spacing</b>	
<ul style="list-style-type: none"> <li>• top</li> </ul>	30 mm
<ul style="list-style-type: none"> <li>• bottom</li> </ul>	30 mm
<ul style="list-style-type: none"> <li>• left</li> </ul>	0 mm

- right

0 mm

## Connections/Terminals

<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>	<p>straight-through transformers</p> <p>screw-type terminals</p>
<b>Type of electrical connection at the measurement inputs for voltage</b>	screw-type terminals
<b>Type of connectable conductor cross-sections at the measurement inputs for voltage</b>	
<ul style="list-style-type: none"> <li>• finely stranded with core end processing</li> <li>• solid</li> <li>• at AWG conductors solid</li> </ul>	<p>1x (0.25 ... 2.5 mm<sup>2</sup>), 2x (0.25 ... 1.0 mm<sup>2</sup>)</p> <p>1x (0.25 ... 2.5 mm<sup>2</sup>), 2x (0.25 ... 1.0 mm<sup>2</sup>)</p> <p>1x (24 ... 14), 2x (24 ... 18)</p>
<b>Tightening torque at the measurement inputs for voltage</b>	0.5 ... 0.6 N·m
<b>Tightening torque [lbf·in] at the measurement inputs for voltage</b>	4.4 ... 5.3 lbf·in

## Ambient conditions

<b>Installation altitude at height above sea level</b>	
<ul style="list-style-type: none"> <li>• 1 maximum</li> <li>• 2 maximum</li> <li>• 3 maximum</li> </ul>	<p>2 000 m</p> <p>3 000 m; No protective separation at 50 °C</p> <p>4 000 m; No protective separation at 40 °C</p>
<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>	<p>-25 ... +60 °C</p> <p>-40 ... +80 °C</p> <p>-40 ... +80 °C</p>
<b>Environmental category</b>	
<ul style="list-style-type: none"> <li>• during operation acc. to IEC 60721</li> <li>• during storage acc. to IEC 60721</li> <li>• during transport acc. to IEC 60721</li> </ul>	<p>3K6 (no formation of ice, no condensation, relative humidity 10 ... 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6</p> <p>1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4</p> <p>2K2, 2C1, 2S1, 2M2</p>
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	10 ... 95 %

## Short-circuit protection

<b>Product function Short circuit protection</b>	No
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## Main circuit

<b>Number of poles for main current circuit</b>	3
<b>Adjustable pick-up value current of the current-dependent overload release</b>	10 ... 115 A
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• at AC</li> </ul>	

— at 50 Hz rated value 110 ... 690 V  
 — at 60 Hz rated value 110 ... 690 V

Operating frequency rated value 50 ... 60 Hz

### Control circuit/ Control

Type of voltage AC

Type of voltage of the control supply voltage AC

### Certificates/approvals

General Product Approval

EMC

For use in hazardous locations



CCC



CSA



UL



C-Tick



ATEX

For use in hazardous locations

Declaration of Conformity

Test Certificates

Shipping Approval

[Explosion Protection Certificate](#)



EG-Konf.

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



DNV

Shipping Approval

other



LRS



RMRS

[Confirmation](#)

[PROFIsafe-Certification](#)



Profibus

[PROFINET-Certification](#)

### 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=3UF7112-1AA01-0>

**Cax online generator**

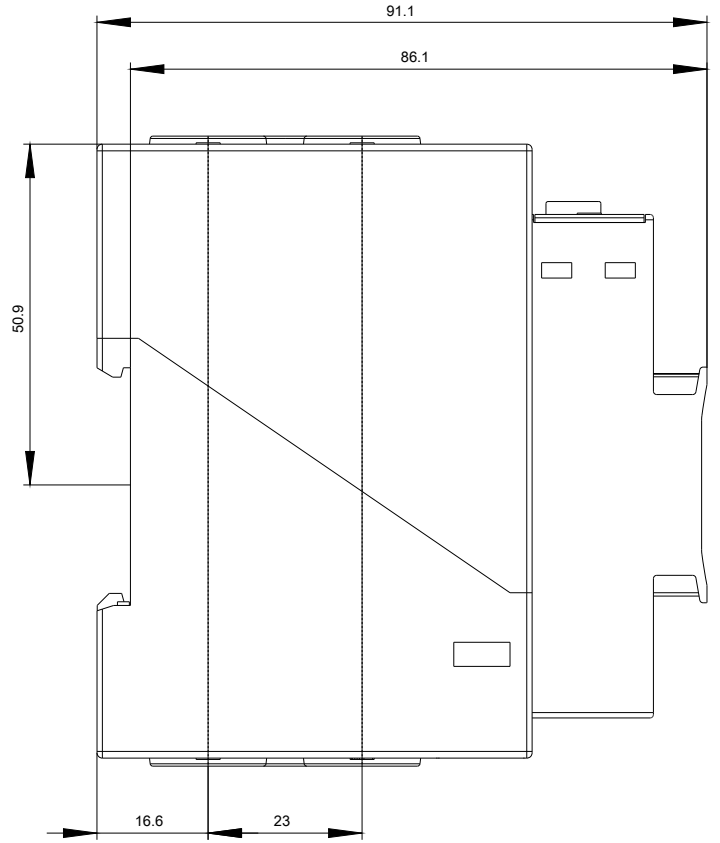
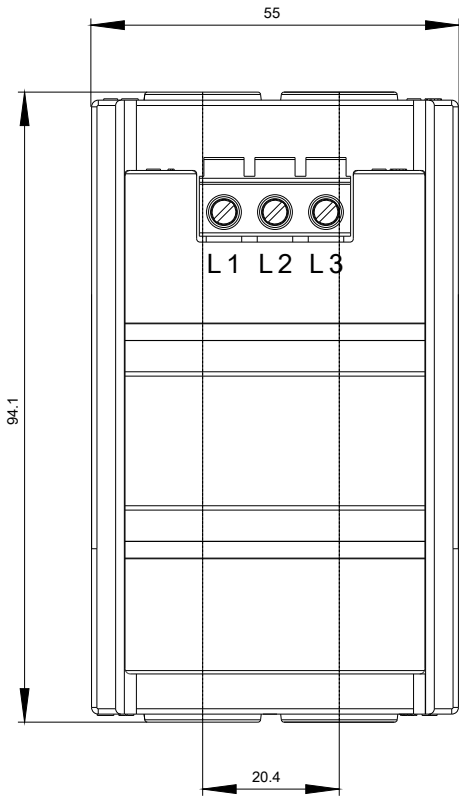
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7112-1AA01-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7112-1AA01-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7112-1AA01-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7112-1AA01-0&lang=en)



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