



Current/voltage measuring module V2; set current 3...40 A; voltage measurem. up to 690 V overall width 45 mm; straight-through transformer; requires basic unit pro V PB in version -ZB01 or pro V EIP

product brandname	SIRIUS
Product designation	Current/voltage measuring module
General technical data	
Product function	
• Current measurement	Yes
• voltage measurement	Yes
• active power measurement	Yes
• Power measurement	Yes
• frequency measurement	Yes
Product component	
• input for thermistor connection	No
Insulation voltage	
• with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 000 V
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g
Equipment marking	

- acc. to DIN EN 81346-2

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Electromagnetic compatibility

EMC emitted interference	
• acc. to IEC 60947-1	class A
Conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV
• due to conductor-earth surge acc. to IEC 61000-4-5	2 kV
• 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

Inputs/ Outputs

Number of outputs as contact-affected switching element	0
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Protective and monitoring functions

Product function	
• power factor monitoring	Yes
• voltage detection	Yes

Motor protection functions

Product function	
• Current detection	Yes
• Overload protection	Yes

Precision

• Measuring precision of frequency measurement	+/- 1.5 %, 2.25 ... 80 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
• Measuring accuracy at current measurement 1	+/- 1.5 %, in range 2.25 A ... 80 A, 50/60 Hz, 25 °C
Temperature drift per °C	0.01 %/°C

Installation/ mounting/ dimensions

Mounting position	any
Mounting type	screw and snap-on mounting
Height	84 mm
Width	45 mm
Depth	64 mm
Required spacing	
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm

Connections/Terminals

Type of electrical connection	
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• for main current circuit • for auxiliary and control current circuit	straight-through transformers screw-type terminals
Type of electrical connection at the measurement inputs for voltage	screw-type terminals
Type of connectable conductor cross-sections • at the measurement inputs for voltage finely stranded with core end processing • at the measurement inputs for voltage solid • at the measurement inputs for voltage at AWG conductors solid	1x (0.25 ... 2.5 mm ²), 2x (0.25 ... 1.0 mm ²) 1x (0.25 ... 2.5 mm ²), 2x (0.25 ... 1.0 mm ²) 1x (24 ... 14), 2x (24 ... 18)
Tightening torque at measuring inputs for voltage	0.5 ... 0.6 N·m
Tightening torque [lbf·in] at measuring inputs for voltage	4.4 ... 5.3 lbf·in
Ambient conditions	
Ambient temperature • during operation • during storage • during transport	-25 ... +60 °C -40 ... +80 °C -40 ... +80 °C
Relative humidity • during operation	10 ... 95 %
Short-circuit protection	
Product function Short circuit protection	No
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	3 ... 40 A
Operating voltage • at AC — at 50 Hz rated value — at 60 Hz rated value	110 ... 690 V 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	Test Certificates	other
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[Type Test Certificates/Test Report](#)

[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=3UF7111-1AA01-0>

Cax online generator

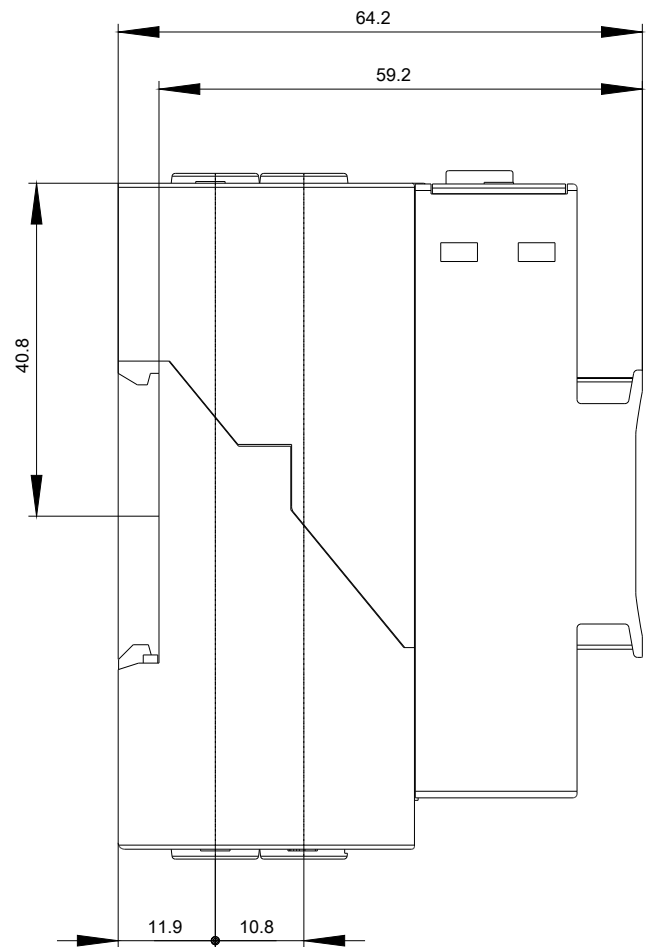
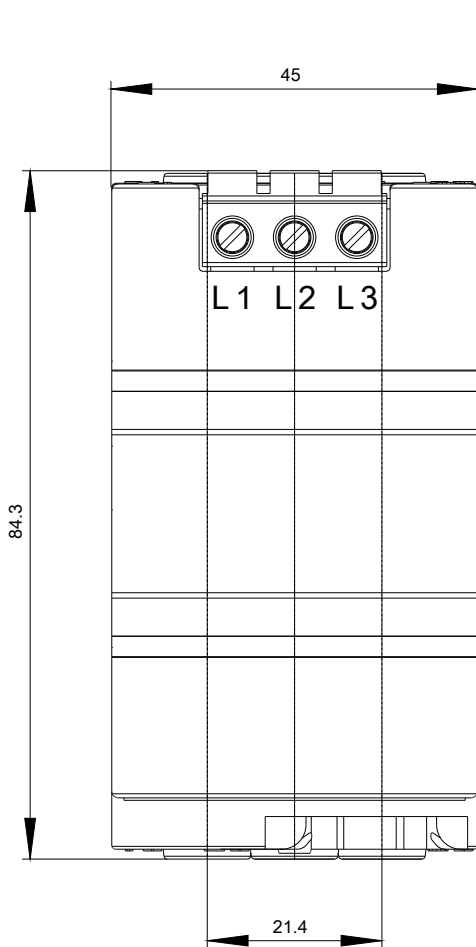
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7111-1AA01-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7111-1AA01-0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7111-1AA01-0&lang=en



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