

Current/voltage measuring module V2; set current 20...200 A; voltage measurem. up to 690 V; overall width 120 mm; busbar connection; 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	IP00
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	F

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 %, 15 ... 400 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 15 A ... 400 A, 50/60 Hz, 25 °C
Temperature drift per °C	0.01 %/°C
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting / stand-alone installation
Height	119 mm
Width	120 mm
Depth	145 mm
Required spacing	
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm
Connections/Terminals	
Type of electrical connection	
• for main current circuit	busbar connection
• for auxiliary and control current circuit	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	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
• at the measurement inputs for voltage solid	1x (0.5 ... 4 mm²), 2x (0.5 ... 2.5 mm²)
• at the measurement inputs for voltage at AWG conductors solid	1x (20 ... 12), 2x (20 ... 14)
Tightening torque at measuring inputs for voltage	0.8 ... 1.2 N·m
Tightening torque [lbf·in] at measuring inputs for voltage	7 ... 10.3 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
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Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	20 ... 200 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=3UF7113-1BA01-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7113-1BA01-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7113-1BA01-0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7113-1BA01-0&lang=en

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