

Current/voltage measuring module Set current 2.4...25 A, voltage measurement up to 690 V, Overall width 45 mm, straight-through transformer



Figure similar

Product brand name	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	No
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
Electromagnetic compatibility	
EMC emitted interference	
• acc. to IEC 60947-1	class A
EMI immunity acc. to IEC 60947-1	corresponds to degree of severity 3
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
Protective and monitoring functions	
Product function	
• power factor monitoring	Yes
• voltage detection	Yes
Motor protection functions	
Product function	
• Current detection	Yes
• Overload protection	Yes
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw and snap-on mounting
Height	85 mm
Width	45 mm
Depth	66 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	straight-through transformers
• 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 mm ²), 2x (0.5 ... 1.5 mm ²)
solid	1x (0.5 ... 4 mm ²), 2x (0.5 ... 2.5 mm ²)
at AWG conductors solid	1x (20 ... 14), 2x (20 ... 14)
Tightening torque at the measurement inputs for voltage	0.8 ... 1.2 N·m
Tightening torque [lbf·in] at the measurement inputs for voltage	7 ... 10.3 lbf·in

Ambient conditions

Installation altitude at height above sea level	
1 maximum	2 000 m
2 maximum	3 000 m; No protective separation at 50 °C
3 maximum	4 000 m; No protective separation at 40 °C
Ambient temperature	
during operation	-25 ... +60 °C
during storage	-40 ... +80 °C
during transport	-40 ... +80 °C
Environmental category	
during operation acc. to IEC 60721	3K6 (no formation of ice, no condensation, relative humidity 10 ... 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
during storage acc. to IEC 60721	1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4
during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2
Relative humidity	
during operation	5 ... 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	2.4 ... 25 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	EMC	For use in hazardous locations
--------------------------	-----	--------------------------------



For use in hazardous locations	Declaration of Conformity	Test Certificates	Marine / Shipping
--------------------------------	---------------------------	-------------------	-------------------

[Explosion Protection Certificate](#)



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other
-------------------	-------



[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=3UF7111-1AA00-0>

Cax online generator

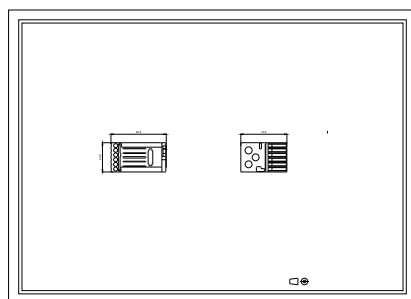
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7111-1AA00-0>

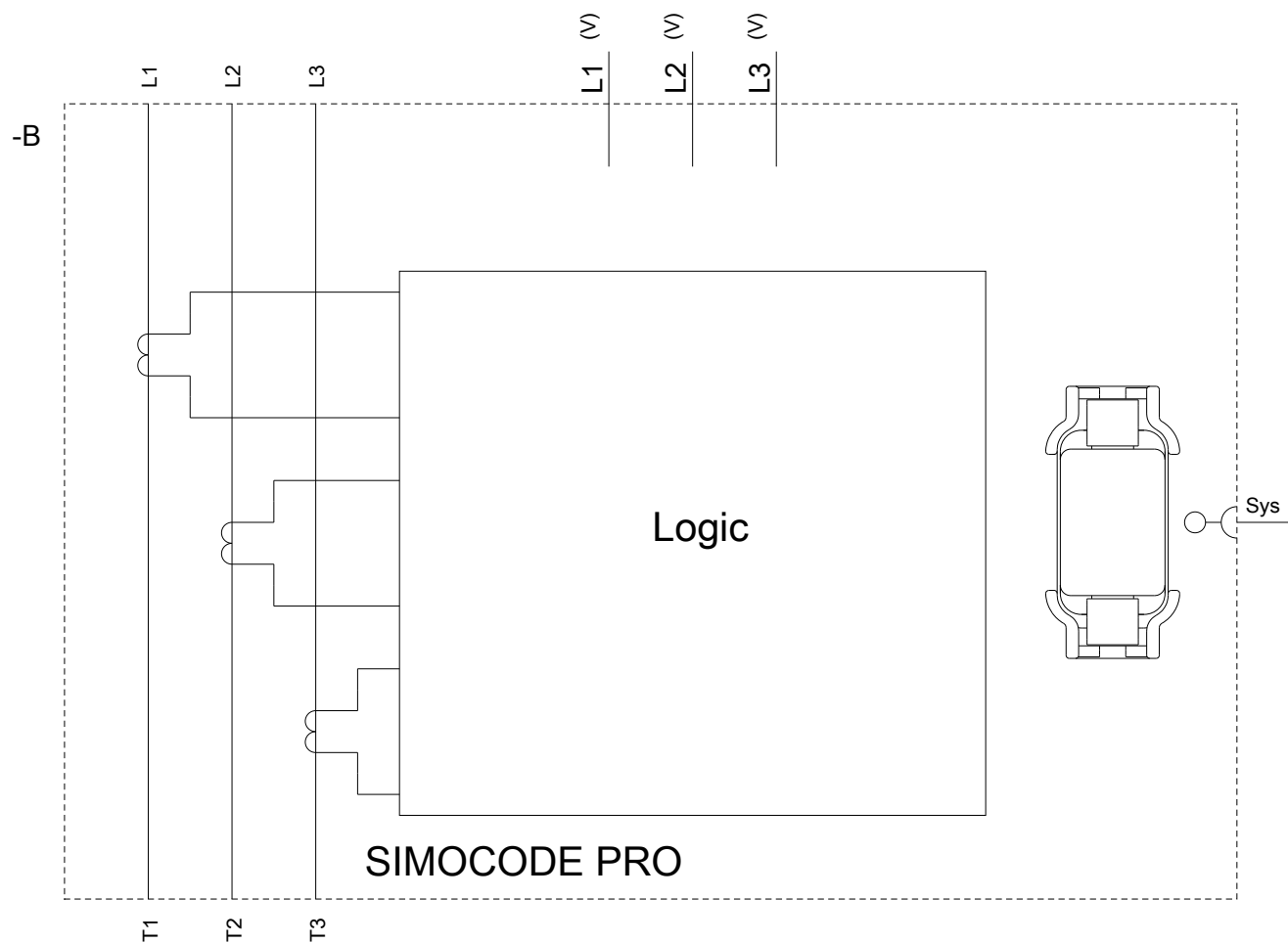
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7111-1AA00-0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7111-1AA00-0&lang=en





last modified:

04/06/2018 [🔗](#)