

Current/voltage measuring module Set current 20...200 A voltage measurement up to 690 V, overall width 120 mm, straight-through transformer



<b>product brand name</b>	SIRIUS
<b>product designation</b>	Current/voltage measuring module
<b>General technical data</b>	
<b>size of the circuit-breaker</b>	S6
<b>product function</b>	
• current measurement	Yes
• voltage measurement	Yes
• active power measurement	Yes
• energy measurement	Yes
• frequency measurement	No
<b>current measuring range extension with external current transformers</b>	No
<b>measurable supply voltage between the line conductors at AC maximum rated value</b>	690 V
<b>product component</b>	
• input for thermistor connection	No
<b>consumed active power</b>	0.3 W
<b>insulation voltage</b>	
• with degree of pollution 3 at AC rated value	690 V
• for wires of main circuit according to IEC 60947-1 rated value	6 kV
<b>surge voltage resistance rated value</b>	8 000 V
<b>shock resistance according to IEC 60068-2-27</b>	15 g / 11 ms
<b>vibration resistance</b>	1 ... 6 Hz / 15 mm; 6 ... 500 Hz / 2 g
<b>reference code according to IEC 81346-2</b>	F
<b>Substance Prohibitance (day/month/year)</b>	05/28/2009
<b>SVHC substance name</b>	Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1
<b>Net Weight</b>	0.69 kg
<b>Electromagnetic compatibility</b>	
EMC emitted interference according to IEC 60947-1	class A
EMC immunity according to IEC 60947-1	corresponds to degree of severity 3
<b>conducted interference</b>	
• due to burst according to IEC 61000-4-4	2 kV
• due to conductor-earth surge according to IEC 61000-4-5	2 kV
• due to conductor-conductor surge according to IEC 61000-4-5	1 kV
<b>field-based interference according to IEC 61000-4-3</b>	10 V/m
<b>Inputs/ Outputs</b>	

<b>number of outputs as contact-affected switching element</b>	0
<b>Protective and monitoring functions</b>	
<b>product function</b>	
• power factor monitoring	Yes
• ground-fault monitoring	No
• voltage detection	Yes
<b>trip class</b>	CLASS 5E
<b>product function</b>	
• current detection	Yes
• overload protection	Yes
<b>Installation/ mounting/ dimensions</b>	
<b>mounting position</b>	any
<b>fastening method</b>	screw and snap-on mounting
<b>height</b>	95 mm
<b>width</b>	120 mm
<b>depth</b>	145 mm
<b>required spacing</b>	
• top	30 mm
• bottom	30 mm
• left	0 mm
• right	0 mm
<b>diameter of inlet opening</b>	25 mm
<b>diameter of inlet opening for current measurement</b>	25 mm
<b>Connections/ Terminals</b>	
<b>type of electrical connection</b>	
• for main current circuit	straight-through transformers
• for auxiliary and control circuit	screw-type terminals
<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>	
• finely stranded with core end processing	1x (0.5 ... 2.5 mm <sup>2</sup> ), 2x (0.5 ... 1.5 mm <sup>2</sup> )
• solid	1x (0.5 ... 4 mm <sup>2</sup> ), 2x (0.5 ... 2.5 mm <sup>2</sup> )
• for AWG cables solid	1x (20 ... 14), 2x (20 ... 14)
• for AWG cables stranded	1x (20 ... 14), 2x (20 ... 16)
<b>tightening torque at the measurement inputs for voltage</b>	0.8 ... 1.2 N·m
<b>tightening torque [lbf·in] at the measurement inputs for voltage</b>	7 ... 10.3 lbf·in
<b>Ambient conditions</b>	
<b>installation altitude at height above sea level</b>	
• 1 maximum	2 000 m
• 2 maximum	3 000 m; max. +50 °C (no protective separation)
• 3 maximum	4 000 m; max. +40 °C (no protective separation)
<b>ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
<b>environmental category</b>	
• during operation according 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 according 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 according to IEC 60721	2K2, 2C1, 2S1, 2M2
relative humidity during operation	5 ... 95 %
<b>Short-circuit protection</b>	
<b>product function short circuit protection</b>	No
IEC 61508	
Safety Integrity Level (SIL) according to IEC 61508	1
<b>ATEX</b>	
<b>certificate of suitability</b>	

<ul style="list-style-type: none"> <li>according to ATEX directive 2014/34/EU</li> </ul>	BVS 06 ATEX F001
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2) D, I (M2)

Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	20 ... 200 A
operating voltage <ul style="list-style-type: none"> <li>at AC <ul style="list-style-type: none"> <li>at 50 Hz rated value</li> <li>at 60 Hz rated value</li> </ul> </li> </ul>	110 ... 690 V 110 ... 690 V
operating frequency rated value	50 ... 60 Hz

Control circuit/ Control	
type of voltage	AC

Approvals Certificates	
Environment	General Product Approval

[Environmental Confirmations](#)



General Product Approval	EMV	For use in hazardous locations
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For use in hazardous locations	Test Certificates
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[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

Maritime application	other
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[Confirmation](#)

other	Industrial Communication
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[Confirmation](#)



### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

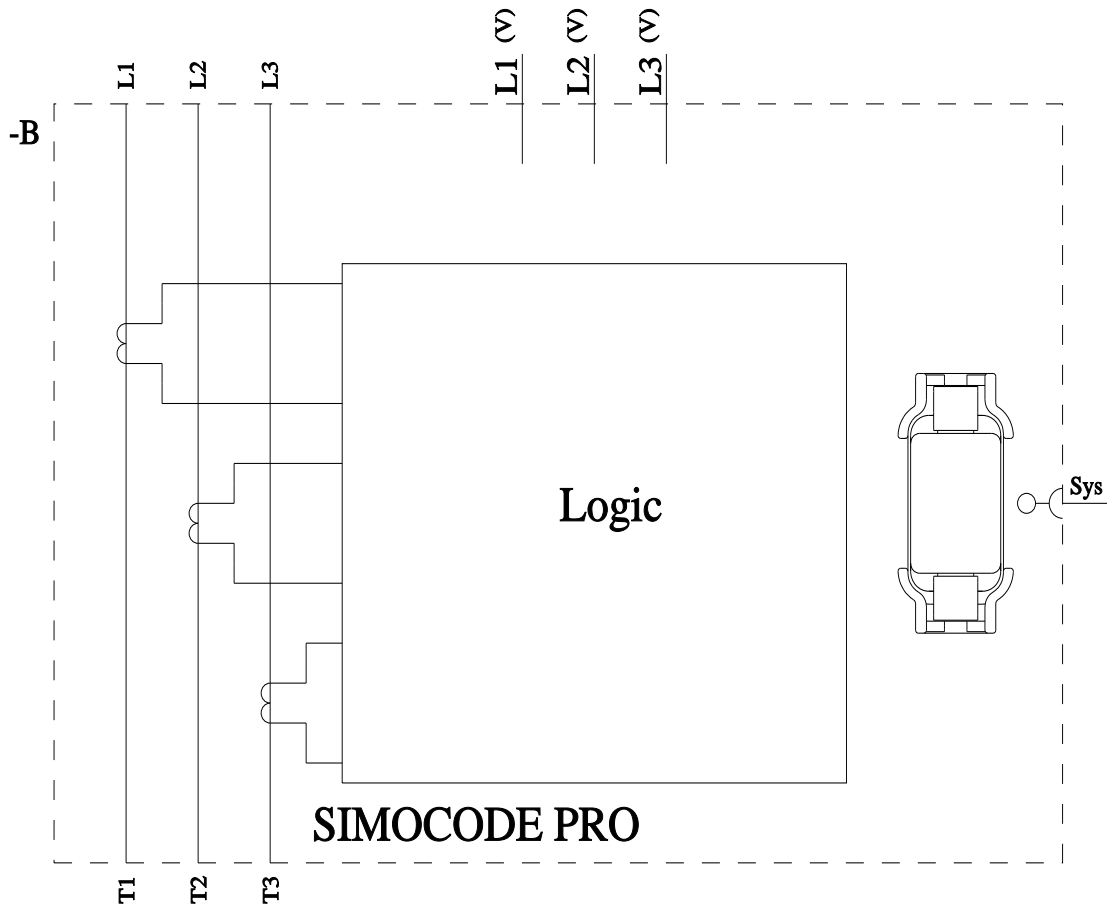
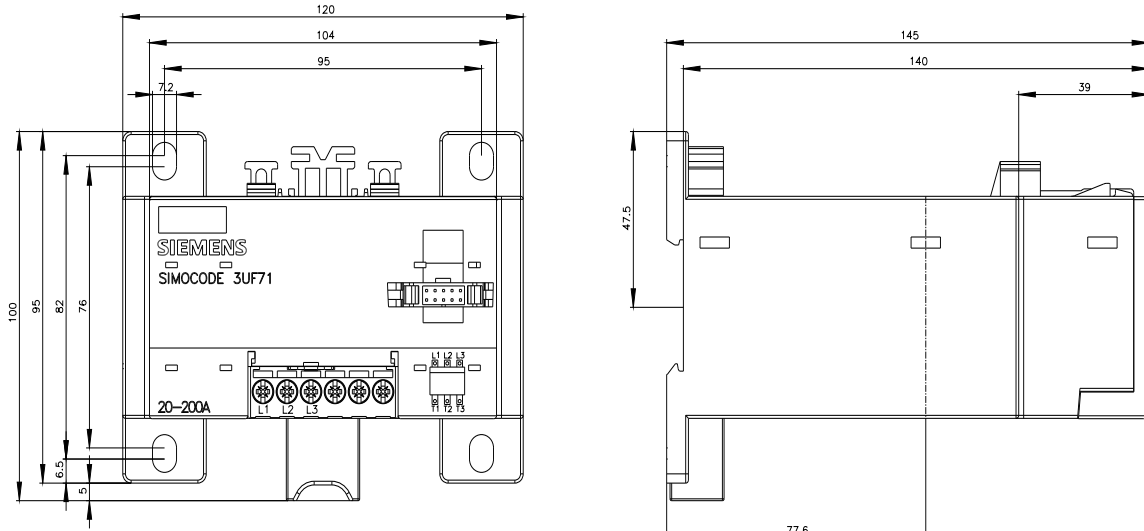
Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7113-1AA00-0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7113-1AA00-0>

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



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