

Current measuring module, Set current 0.3...3 A Overall width 45 mm, straight-through transformer



Product brand name	SIRIUS
Product designation	Current measuring module
General technical data	
Product function	
• Current measurement	Yes
• voltage measurement	No
• active power measurement	No
• Power measurement	No
• frequency measurement	No
Product component	
• input for thermistor connection	No
Insulation voltage	
• with degree of pollution 3 at AC rated value	690 V
• for wires of main circuit acc. to IEC 60947-1 rated value	6 kV
Surge voltage resistance rated value	6 000 V
Protection class IP	IP20
Shock resistance	
• acc. to IEC 60068-2-27	15g / 11 ms

<b>Vibration resistance</b>	1-6 Hz / 15 mm; 6-500 Hz / 2 g
<b>Reference code acc. to DIN EN 81346-2</b>	F
<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)

#### Electromagnetic compatibility

<b>EMC emitted interference</b>	
<ul style="list-style-type: none"> <li>• acc. to IEC 60947-1</li> </ul>	class A
<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>	No
<ul style="list-style-type: none"> <li>• ground-fault monitoring</li> </ul>	No
<ul style="list-style-type: none"> <li>• voltage detection</li> </ul>	No
<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

#### Installation/ mounting/ dimensions

<b>Mounting position</b>	any
<b>Mounting type</b>	screw and snap-on mounting
<b>Height</b>	84 mm
<b>Width</b>	45 mm
<b>Depth</b>	45 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
<ul style="list-style-type: none"> <li>• right</li> </ul>	0 mm
<b>Diameter of feed through opening</b>	7.5 mm
<b>Diameter of feed through opening for current measurement</b>	7.5 mm

<b>Connections/ Terminals</b>	
<b>Type of electrical connection</b>	
<ul style="list-style-type: none"> <li>for main current circuit</li> </ul>	straight-through transformers
<b>Ambient conditions</b>	
<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>	2 000 m 3 000 m; max. +50 °C (no protective separation) 4 000 m; max. +40 °C (no protective separation)
<b>Ambient temperature</b>	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	-25 ... +60 °C
<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>	3K6 (no formation of ice, no condensation, relative humidity 10 ... 95%), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist), 1S2 (sand must not get into the devices), 1M4 2K2, 2C1, 2S1, 2M2
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>during operation</li> </ul>	5 ... 95 %
<b>Short-circuit protection</b>	
<b>Product function Short circuit protection</b>	No
<b>Safety related data</b>	
Safety Integrity Level (SIL) acc. to IEC 61508	1
<b>Galvanic isolation</b>	
<b>(electrically) protective separation acc. to IEC 60947-1</b>	All circuits with protective separation (double creepage paths and clearances), the information in the "Protective Separation" test report, No. A0258, must be observed (link see further information)
<b>Main circuit</b>	
<b>Number of poles for main current circuit</b>	3
<b>Adjustable pick-up value current of the current-dependent overload release</b>	0.3 ... 3 A
<b>Operating voltage</b>	
<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
<b>Operating frequency rated value</b>	50 ... 60 Hz
<b>Control circuit/ Control</b>	
<b>Type of voltage</b>	AC
<b>Certificates/ approvals</b>	

General Product Approval	EMC	For use in hazardous locations
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For use in hazardous locations	Declaration of Conformity	Test Certificates	Marine / Shipping
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[Explosion Protection Certificate](#)



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other
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[Confirmation](#)



[PROFINET-Certification](#)

#### Further information

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

[www.siemens.com/ic10](http://www.siemens.com/ic10)

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7100-1AA00-0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7100-1AA00-0>

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

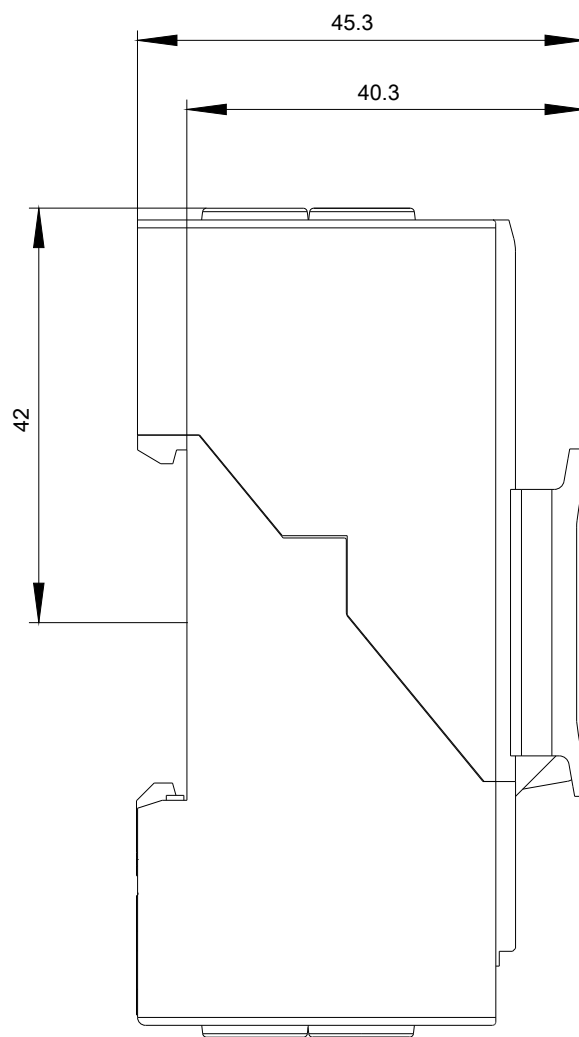
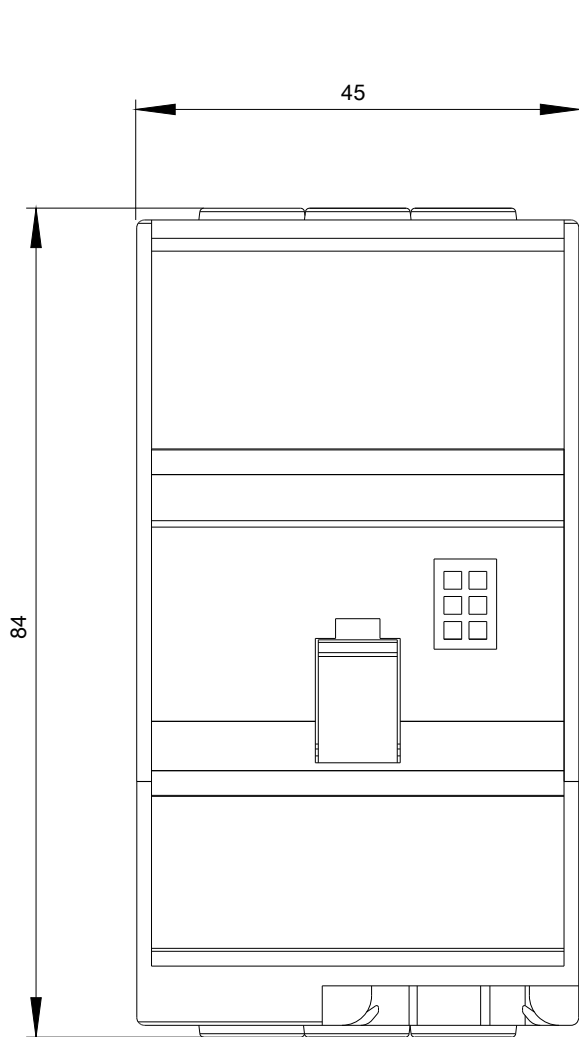
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7100-1AA00-0>

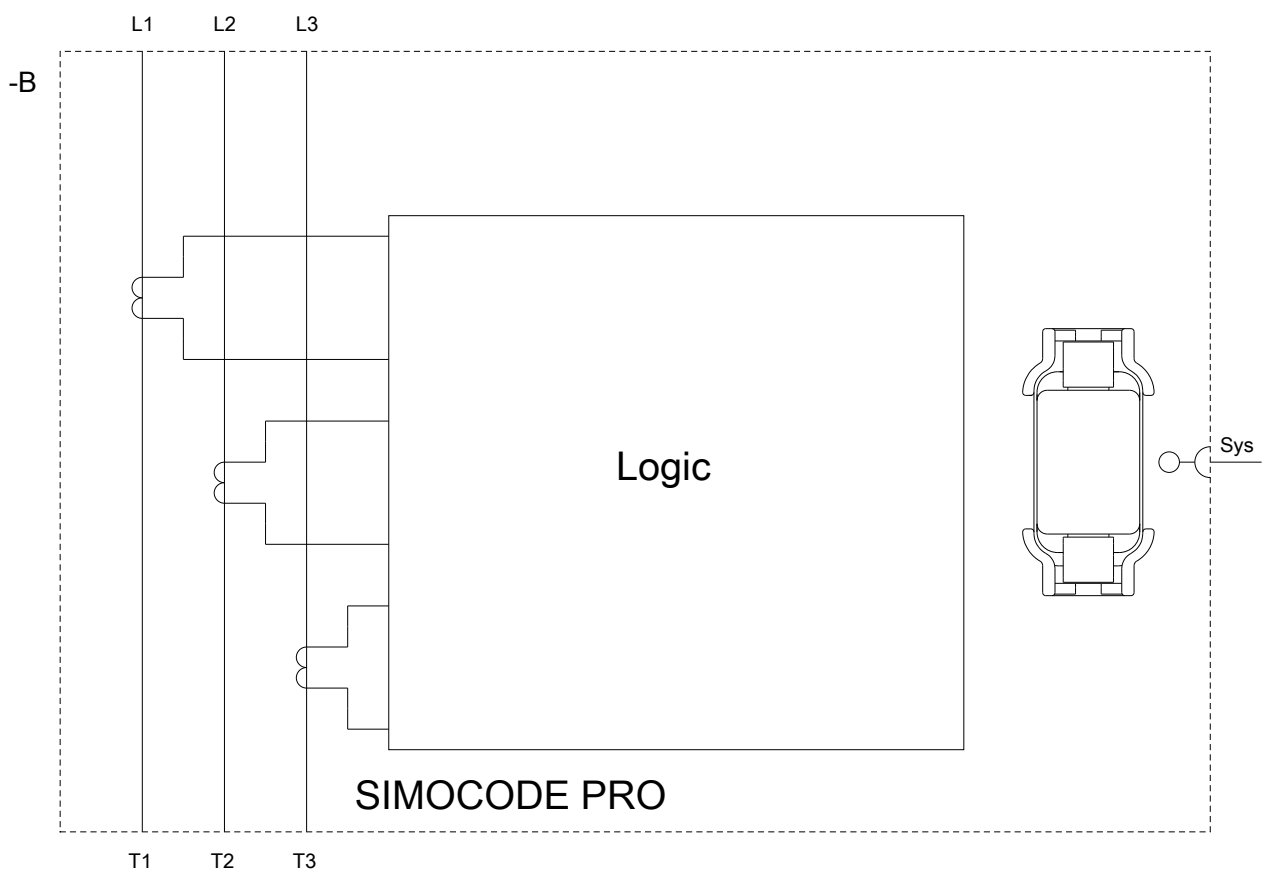
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7100-1AA00-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7100-1AA00-0&lang=en)

**Test report No. A0258, protective separation**

<https://support.industry.siemens.com/cs/ww/en/view/109748152>





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