



Current measuring module, Set current 10...100 A Overall width 55 mm, straight-through transformer

<b>product brand name</b>	SIRIUS
<b>product designation</b>	Current measuring module
<b>General technical data</b>	
<b>product function</b>	
• current measurement	Yes
• voltage measurement	No
• active power measurement	No
• power measurement	No
• frequency measurement	No
<b>product component</b>	
• input for thermistor connection	No
<b>insulation voltage</b>	
• 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
<b>surge voltage resistance rated value</b>	6 000 V
<b>protection class IP</b>	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 IEC 81346-2</b>	F
<b>certificate of suitability</b>	
• according to ATEX directive 2014/34/EU	BVS 06 ATEX F001
explosion device group and category according to ATEX directive 2014/34/EU	II (2) G, II (2 ) D, I (M2)
<b>Electromagnetic compatibility</b>	
EMC emitted interference acc. to IEC 60947-1	class A
<b>EMC immunity acc. to IEC 60947-1</b>	corresponds to degree of severity 3
<b>conducted interference</b>	
• 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
<b>field-based interference acc. 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>	

<ul style="list-style-type: none"><li>• power factor monitoring</li><li>• ground-fault monitoring</li><li>• voltage detection</li></ul>	No	
	No	
	No	
<b>product function</b> <ul style="list-style-type: none"><li>• current detection</li><li>• overload protection</li></ul>	Yes	
	Yes	
Installation/ mounting/ dimensions		
<b>mounting position</b>	any	
<b>fastening method</b>	screw and snap-on mounting	
<b>height</b>	94 mm	
<b>width</b>	55 mm	
<b>depth</b>	72 mm	
<b>required spacing</b> <ul style="list-style-type: none"><li>• top</li><li>• bottom</li><li>• left</li><li>• right</li></ul>	30 mm	
	30 mm	
	0 mm	
	0 mm	
<b>diameter of inlet opening</b>	14 mm	
<b>diameter of inlet opening for current measurement</b>	14 mm	
Ambient conditions		
<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>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	
relative humidity during operation	5 ... 95 %	
Short-circuit protection		
<b>product function short circuit protection</b>	No	
Galvanic isolation		
<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)	
Main circuit		
<b>number of poles for main current circuit</b>	3	
<b>adjustable current response value current of the current-dependent overload release</b>	10 ... 100 A	
<ul style="list-style-type: none"><li>• operating voltage 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	
Control circuit/ Control		
<b>type of voltage</b>	AC	
Certificates/ approvals		
General Product Approval	EMC	For use in hazardous locations



For use in hazardous locations

Declaration of Conformity

Test Certificates



[Miscellaneous](#)

[Special Test  
Certificate](#)

[Type Test  
Certificates/Test  
Report](#)

#### Marine / Shipping

other



[Confirmation](#)



other

[PROFINET-  
Certification](#)

#### Further information

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=3UF7102-1AA00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7102-1AA00-0>

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

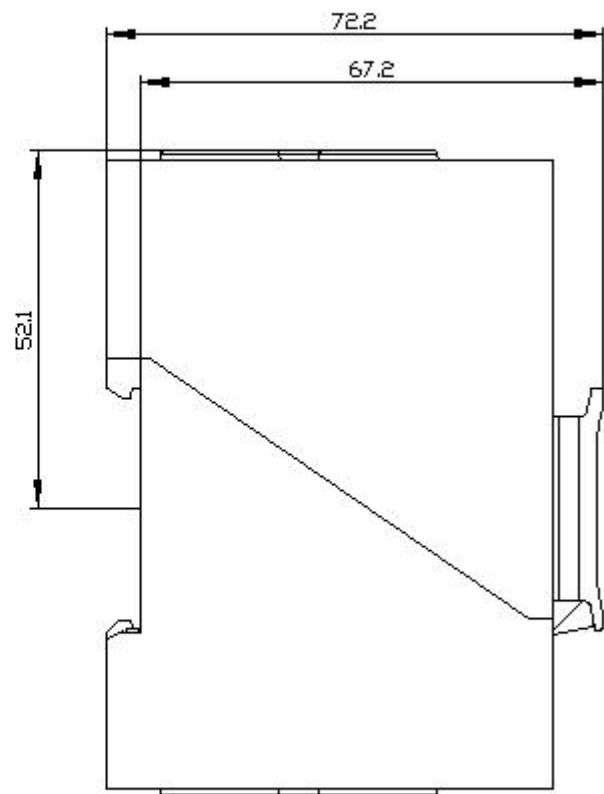
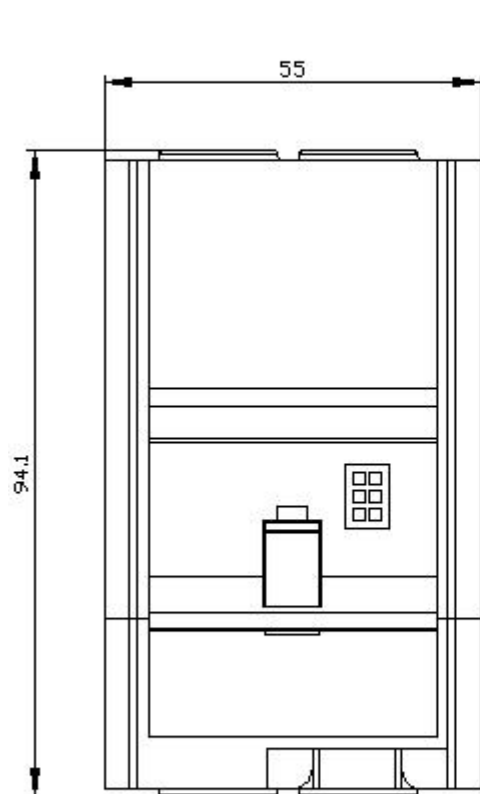
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7102-1AA00-0>

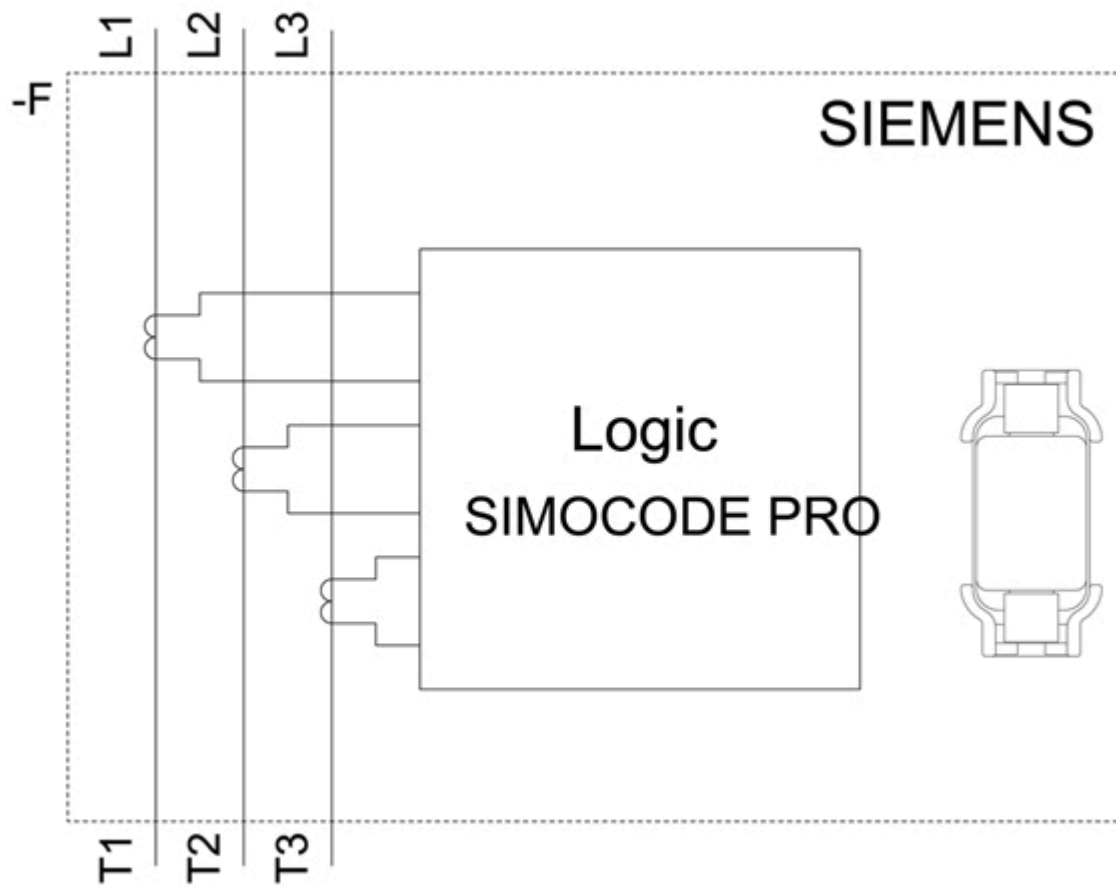
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7102-1AA00-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7102-1AA00-0&lang=en)

Test report No. A0258, protective separation

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





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