



Current measuring module, Set current 10...100 A Overall width 55 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
vibration resistance	1-6 Hz / 15 mm; 6-500 Hz / 2 g
reference code acc. to IEC 81346-2	F
Substance Prohibitance (Date)	28.05.2009
certificate of suitability	
• 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)
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 60947-1	class A
EMC 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-based interference 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	No

<ul style="list-style-type: none">• ground-fault monitoring• voltage detection	No	
product function	No	
<ul style="list-style-type: none">• current detection• overload protection	Yes	
	Yes	
Installation/ mounting/ dimensions		
mounting position	any	
fastening method	screw and snap-on mounting	
height	94 mm	
width	55 mm	
depth	72 mm	
required spacing		
<ul style="list-style-type: none">• top	30 mm	
<ul style="list-style-type: none">• bottom	30 mm	
<ul style="list-style-type: none">• left	0 mm	
<ul style="list-style-type: none">• right	0 mm	
diameter of inlet opening	14 mm	
diameter of inlet opening for current measurement	14 mm	
Ambient conditions		
installation altitude at height above sea level		
<ul style="list-style-type: none">• 1 maximum	2 000 m	
<ul style="list-style-type: none">• 2 maximum	3 000 m; max. +50 °C (no protective separation)	
<ul style="list-style-type: none">• 3 maximum	4 000 m; max. +40 °C (no protective separation)	
ambient temperature		
<ul style="list-style-type: none">• during operation	-25 ... +60 °C	
<ul style="list-style-type: none">• during storage	-40 ... +80 °C	
<ul style="list-style-type: none">• during transport	-40 ... +80 °C	
environmental category		
<ul style="list-style-type: none">• 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	
<ul style="list-style-type: none">• 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	
<ul style="list-style-type: none">• 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	
Galvanic isolation		
(electrically) protective separation acc. to IEC 60947-1	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		
number of poles for main current circuit	3	
adjustable current response value current of the current-dependent overload release	10 ... 100 A	
operating voltage		
<ul style="list-style-type: none">• at AC		
<ul style="list-style-type: none"><ul style="list-style-type: none">— at 50 Hz rated value	110 ... 690 V	
<ul style="list-style-type: none"><ul style="list-style-type: none">— at 60 Hz rated value	110 ... 690 V	
operating frequency rated value	50 ... 60 Hz	
Control circuit/ Control		
type of 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
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IECEX



ATEX



EG-Konf.

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



ABS

Marine / Shipping	other
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LRS



RMRS



DNV-GL

[Confirmation](#)



Profibus

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,...)

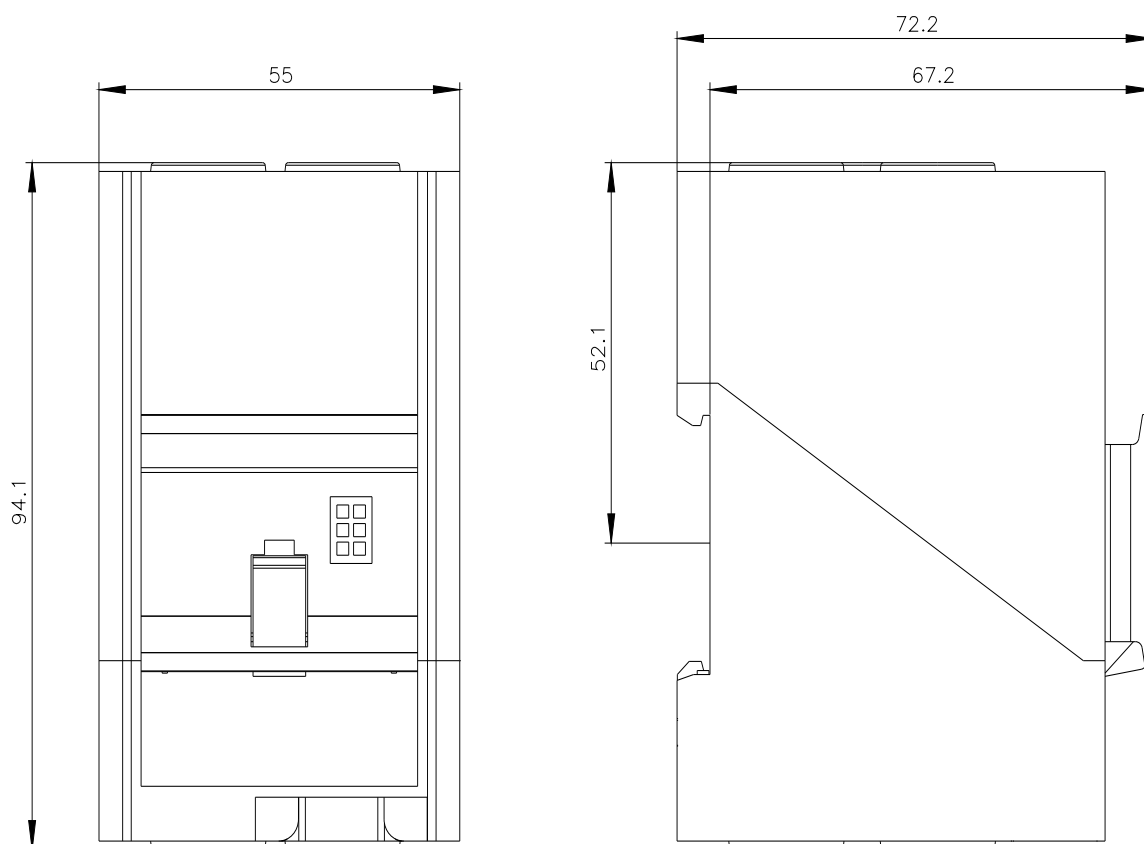
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7102-1AA00-0>

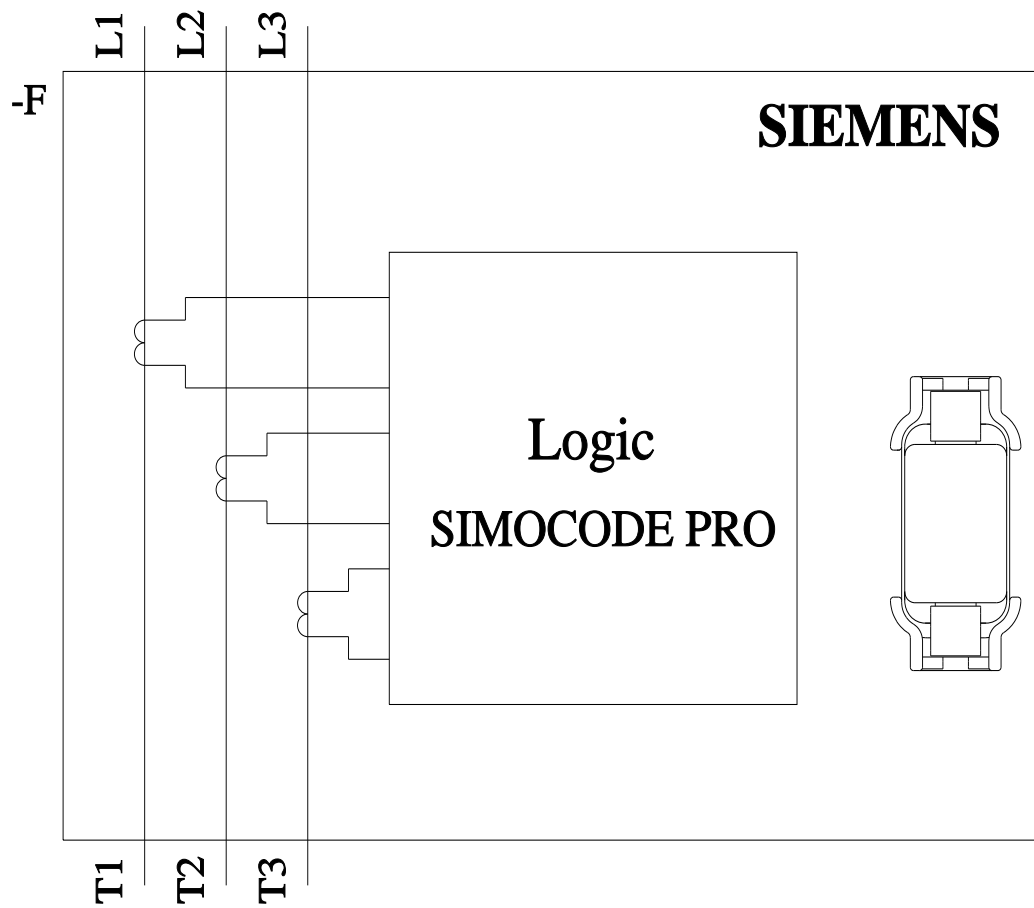
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7102-1AA00-0&lang=en

Test report No. A0258, protective separation

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





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