

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
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
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Protective and monitoring functions

product function	
• power factor monitoring	No
• ground-fault monitoring	No
• voltage detection	No
product function	
• current detection	Yes
• overload protection	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	
• top	30 mm
• bottom	30 mm
• left	0 mm
• 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 1 maximum	2 000 m
• installation altitude at height above sea level 2 maximum	3 000 m; max. +50 °C (no protective separation)
• installation altitude at height above sea level 3 maximum	4 000 m; max. +40 °C (no protective separation)
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
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	
• at AC — at 50 Hz rated value — 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
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CSA



CCC



UL



RCM



ATEX

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



EG-Konf.

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS

Marine / Shipping	other
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LRS



RMRS



DNVGL.COM/AF

[Confirmation](#)



Profibus

[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,...)

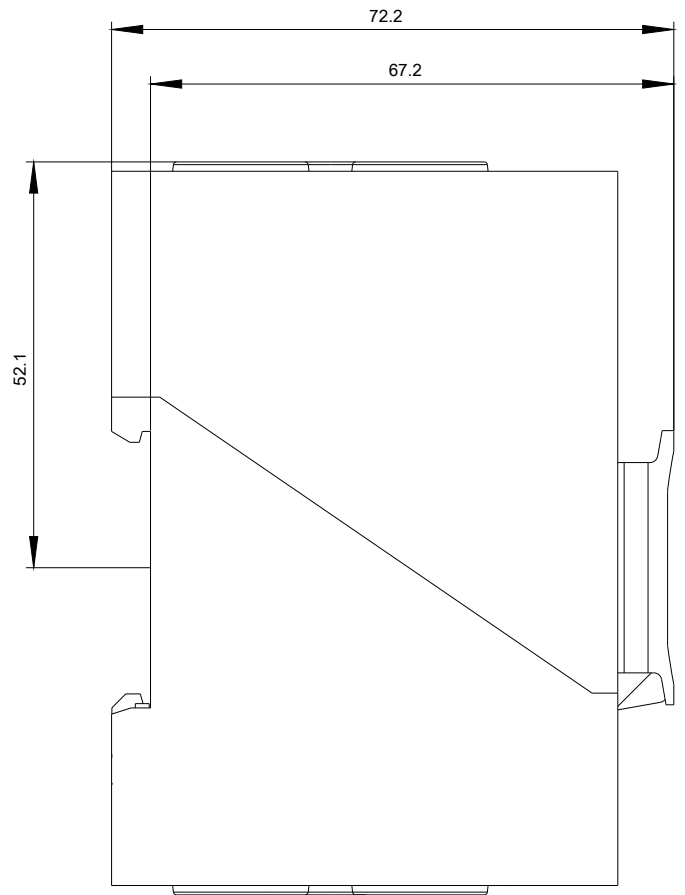
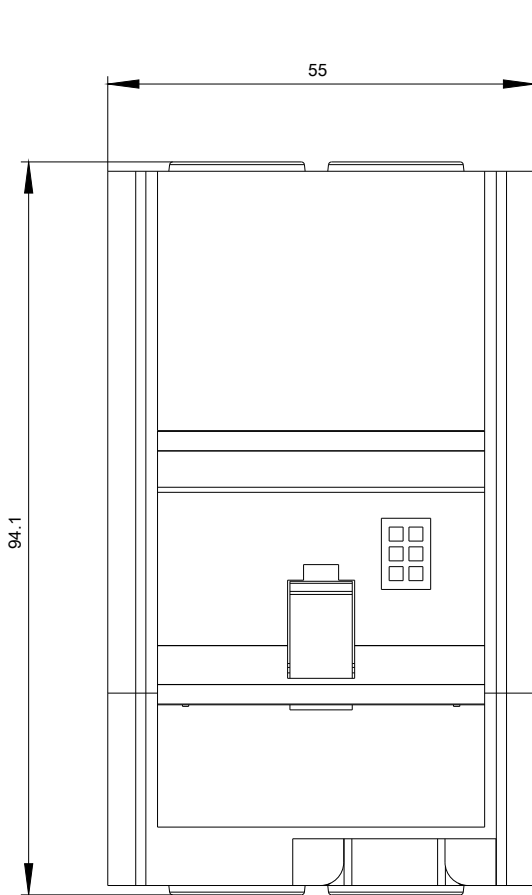
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7102-1AA00-0>

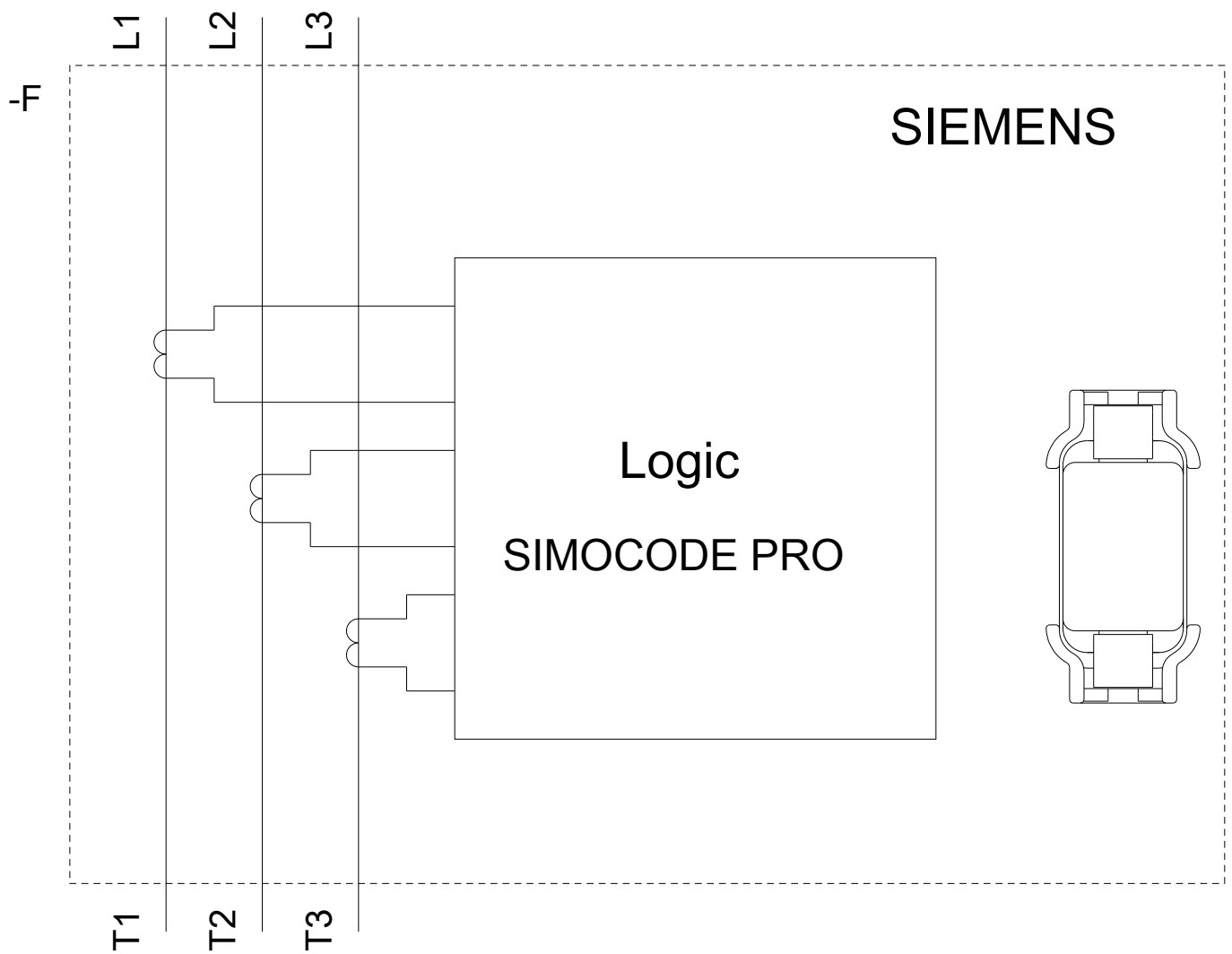
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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

Test report No. A0258, protective separation

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





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