



Current measuring module, Set current 0.3...3 A Overall width 45 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>Substance Prohibitance (Date)</b>                                       | 28.05.2009                          |
| <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                             |
| EMC immunity acc. to IEC 60947-1   | 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>  |                                     |
| • power factor monitoring  | No                                  |

|   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• ground-fault monitoring</li> <li>• voltage detection</li> </ul>  | No  |
| <b>product function</b>   | No  |
| <ul style="list-style-type: none"> <li>• current detection</li> <li>• overload protection</li> </ul>  | Yes   |
|   | Yes   |
| <b>Installation/ mounting/ dimensions</b>   |   |
| <b>mounting position</b>  | any   |
| <b>fastening method</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> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>  | 30 mm<br>30 mm<br>0 mm<br>0 mm  |
| <b>diameter of inlet opening</b>  | 7.5 mm  |
| <b>diameter of inlet opening for current measurement</b>  | 7.5 mm  |
| <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<br>3 000 m; max. +50 °C (no protective separation)<br>4 000 m; max. +40 °C (no protective separation)   |
| <b>ambient temperature</b>  |   |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul>  | -25 ... +60 °C<br>-40 ... +80 °C<br>-40 ... +80 °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%),<br>3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6<br>1K6 (no condensation, relative humidity 10 ... 95%), 1C2 (no salt mist),<br>1S2 (sand must not get into the devices), 1M4<br>2K2, 2C1, 2S1, 2M2 |
| relative humidity during operation  | 5 ... 95 %  |
| <b>Short-circuit protection</b>   |   |
| <b>product function short circuit protection</b>  | No  |
| <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 current response 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<br>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>  |   |
| <div>General Product Approval</div>   |   |
| EMC   |   |



[Confirmation](#)



| For use in hazardous locations | Declaration of Conformity | Test Certificates |
|--------------------------------|---------------------------|-------------------|
|--------------------------------|---------------------------|-------------------|



IECEX



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ATEX



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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|



ABS



LRS



RMRS



DNV-GL

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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=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,...)

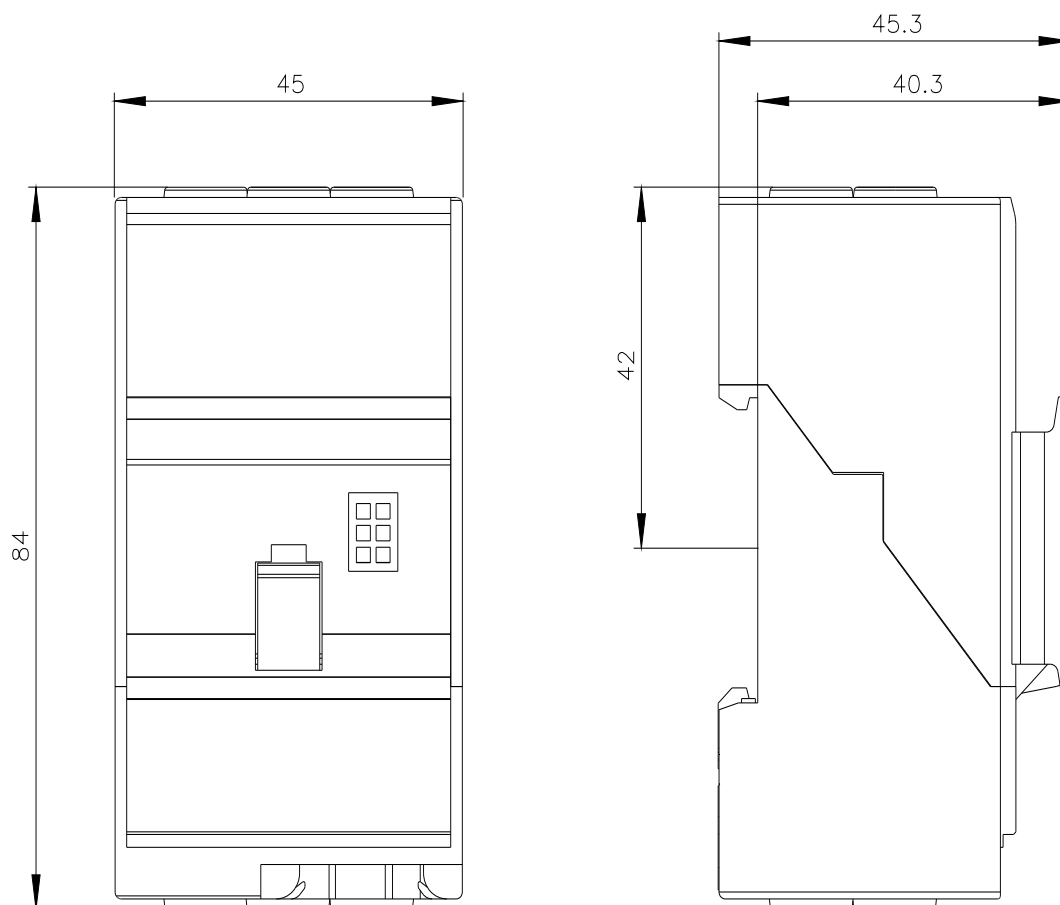
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7100-1AA00-0>

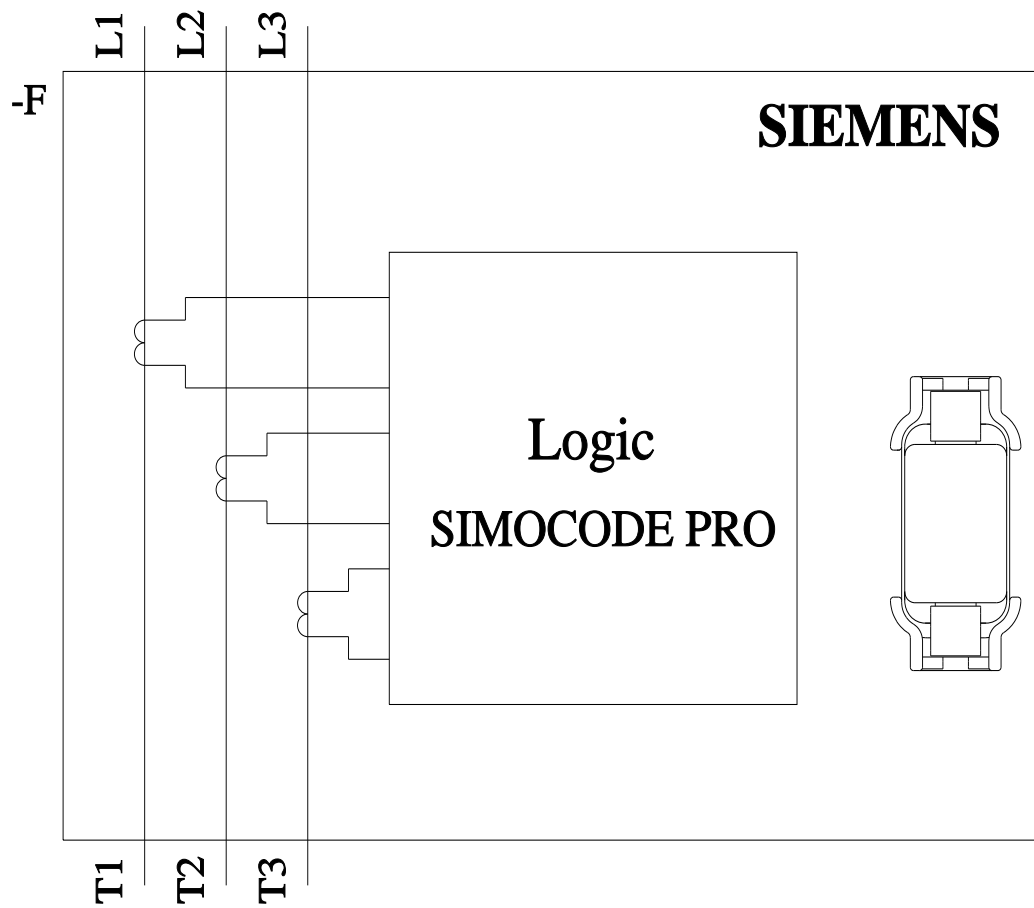
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

[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>





last modified:

1/12/2021 