

Current measuring module, Set current 63...630 A Overall width 145 mm, busbar connection



|  |                                     |
|--|-------------------------------------|
| product brand name   | SIRIUS                              |
| product designation  | Current measuring module            |
| <b>General technical data</b>  |                                     |
| 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                                  |
| consumed active power  | 0.2 W                               |
| insulation voltage   |                                     |
| • with degree of pollution 3 at AC rated value                             | 690 V                               |
| • for wires of main circuit according to IEC 60947-1 rated value           | 8 kV                                |
| surge voltage resistance rated value                                       | 8 000 V                             |
| protection class IP  | IP00                                |
| shock resistance according to IEC 60068-2-27                               | 15g / 11 ms                         |
| vibration resistance   | 1-6 Hz / 15 mm; 6-500 Hz / 2 g      |
| reference code according to IEC 81346-2                                    | F                                   |
| Substance Prohibitance (Date)  | 07/01/2006                          |
| certificate of suitability   |                                     |
| • according to ATEX directive 2014/34/EU                                   | BVS 06 ATEX F001                    |
| • according to UKCA  | ITS21UKEX0464                       |
| 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 according to IEC 60947-1                          | class A                             |
| EMC immunity according to IEC 60947-1                                      | corresponds to degree of severity 3 |
| conducted interference   |                                     |
| • due to burst according to IEC 61000-4-4                                  | 2 kV                                |
| • due to conductor-earth surge according to IEC 61000-4-5                  | 2 kV                                |
| • due to conductor-conductor surge according to IEC 61000-4-5              | 1 kV                                |
| field-based interference according to IEC 61000-4-3                        | 10 V/m                              |
| <b>Inputs/ Outputs</b>   |                                     |
| number of outputs as contact-affected switching element                    | 0                                   |
| <b>Protective and monitoring functions</b>                                 |                                     |
| product function   |                                     |
| • power factor monitoring  | No                                  |

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• ground-fault monitoring</li> <li>• voltage detection</li> </ul>  | No   |
| <b>trip class</b>   | CLASS 5E   |
| <b>product function</b>   |  |
| <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>   | direct mounting / stand-alone installation   |
| <b>height</b>   | 147 mm   |
| <b>width</b>  | 145 mm   |
| <b>depth</b>  | 148 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>Connections/ Terminals</b>   |  |
| <b>type of connectable conductor cross-sections at the measurement inputs for current</b>   |  |
| <ul style="list-style-type: none"> <li>• solid with core end processing</li> <li>• stranded with core end processing</li> <li>• for AWG cables</li> </ul>                                       | 50 mm <sup>2</sup> ... 240 mm <sup>2</sup>   |
|   | 70 mm <sup>2</sup> ... 240 mm <sup>2</sup>   |
|   | 1/0 kcmil ... 500 kcmil  |
| <b>design of the thread of the connection screw at the measurement inputs for current</b>   | M8 x 25  |
| <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> <li>• during storage</li> <li>• during transport</li> </ul>  | -25 ... +60 °C   |
|   | -40 ... +80 °C   |
|   | -40 ... +80 °C   |
| <b>environmental category</b>   |  |
| <ul style="list-style-type: none"> <li>• during operation according to IEC 60721</li> <li>• during storage according to IEC 60721</li> <li>• during transport according 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 %   |
| <b>Short-circuit protection</b>   |  |
| <b>product function short circuit protection</b>  | No   |
| <b>Galvanic isolation</b>   |  |
| <b>(electrically) protective separation according 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>  | 63 ... 630 A   |
| <b>operating voltage</b>  |  |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>   |  |
| — at 50 Hz rated value  | 110 ... 690 V  |
| — at 60 Hz rated value  | 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>  |  |
| <b>General Product Approval</b>   | <b>EMC</b>   |



[Confirmation](#)



For use in hazardous locations

Declaration of Conformity

Test Certificates



[Explosion Protection Certificate](#)



[Special Test Certificate](#)

Test Certificates

Marine / Shipping

other

[Type Test Certificates/Test Report](#)



[Confirmation](#)

other



#### Further information

Siemens has decided to exit the Russian market ([see here](#)).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3UF7104-1BA00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7104-1BA00-0>

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

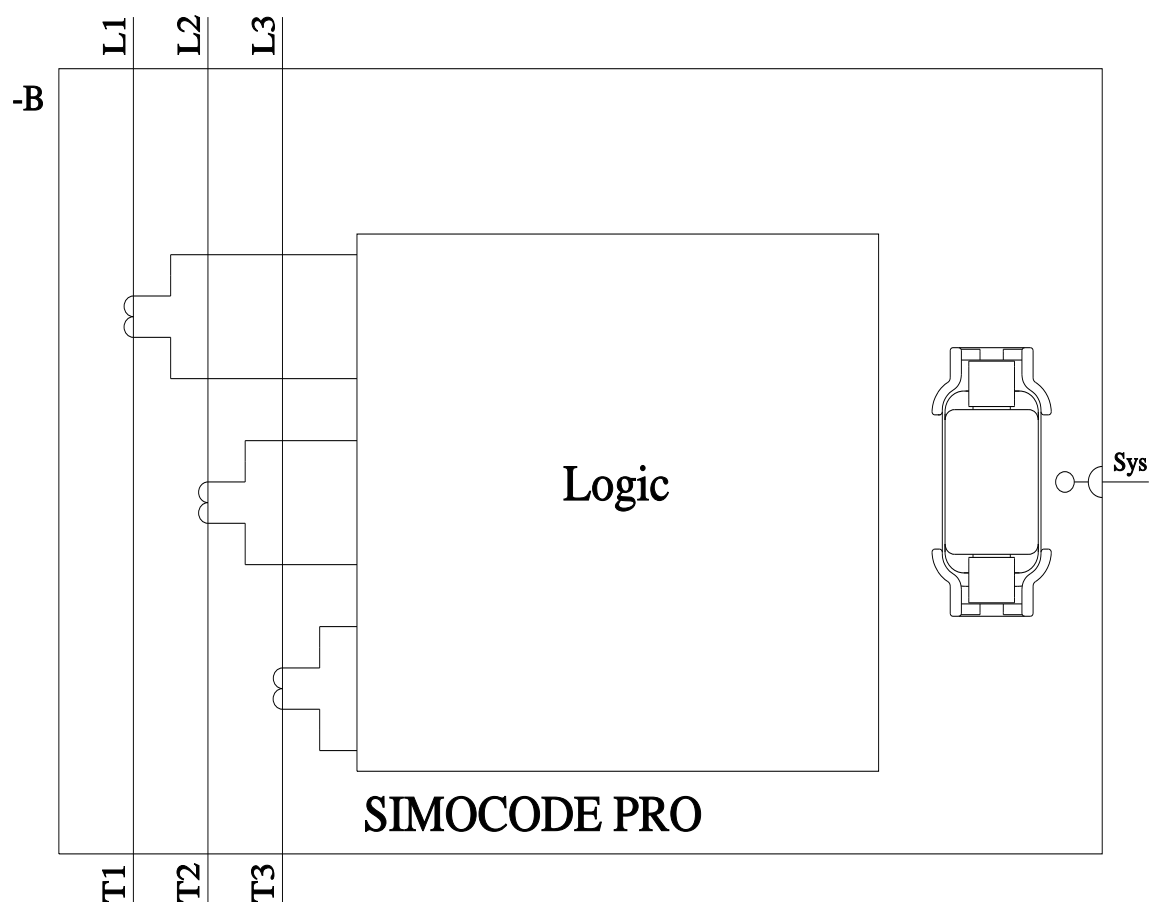
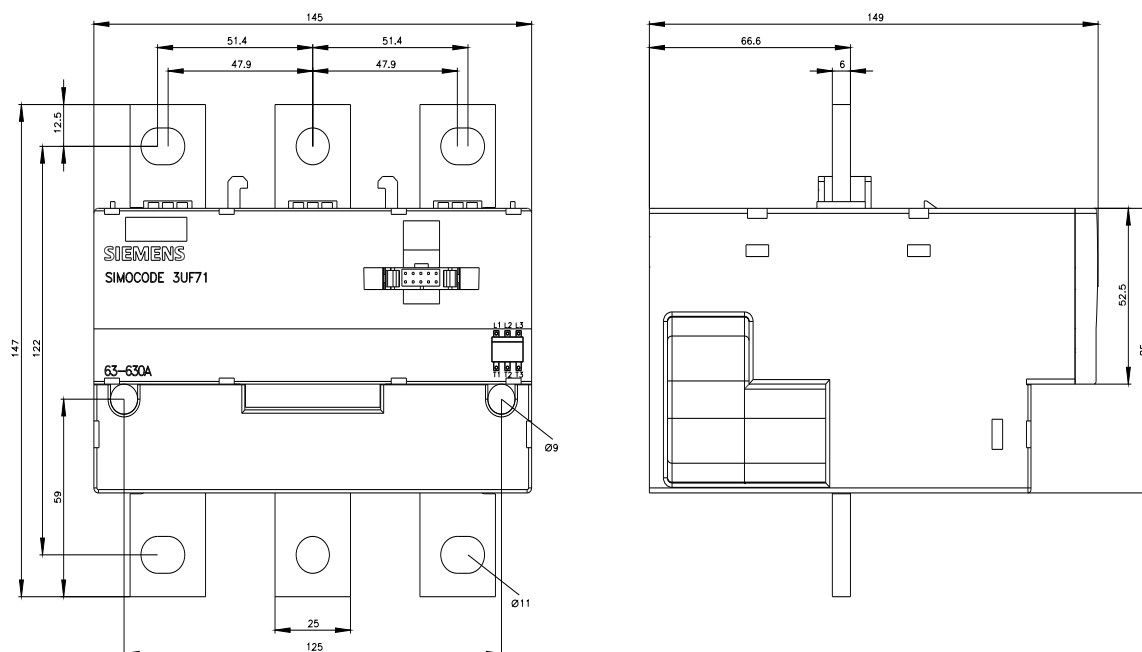
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7104-1BA00-0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7104-1BA00-0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7104-1BA00-0&lang=en)

Test report No. A0258, protective separation

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





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