

Current measuring module, Set current 20...200 A overall width 120 mm, busbar connection



|                                                                  |                                                                                                                                                          |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| product brand name                                               | SIMOCODE                                                                                                                                                 |
| product designation                                              | Current measuring module                                                                                                                                 |
| product type designation                                         | IM                                                                                                                                                       |
| <b>General technical data</b>                                    |                                                                                                                                                          |
| size of the circuit-breaker                                      | S6                                                                                                                                                       |
| product function                                                 |                                                                                                                                                          |
| • current measurement                                            | Yes                                                                                                                                                      |
| • voltage measurement                                            | No                                                                                                                                                       |
| • active power measurement                                       | No                                                                                                                                                       |
| • energy 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                                                                                                                                                  |
| shock resistance according to IEC 60068-2-27                     | 15 g / 11 ms                                                                                                                                             |
| vibration resistance                                             | 1 ... 6 Hz / 15 mm; 6 ... 500 Hz / 2 g                                                                                                                   |
| reference code according to IEC 81346-2                          | F                                                                                                                                                        |
| Substance Prohibitance (day/month/year)                          | 07/01/2006                                                                                                                                               |
| SVHC substance name                                              | Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1 |
| Net Weight                                                       | 990 g                                                                                                                                                    |
| <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>                       |                                                                                                                                                          |

|                                                                                           |                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>product function</b>                                                                   |                                                                                                                                                                                                        |
| • power factor monitoring                                                                 | No                                                                                                                                                                                                     |
| • ground-fault monitoring                                                                 | No                                                                                                                                                                                                     |
| • voltage detection                                                                       | No                                                                                                                                                                                                     |
| <b>trip class</b>                                                                         | CLASS 5E                                                                                                                                                                                               |
| <b>product function</b>                                                                   |                                                                                                                                                                                                        |
| • current detection                                                                       | Yes                                                                                                                                                                                                    |
| • overload protection                                                                     | Yes                                                                                                                                                                                                    |
| <b>Installation/ mounting/ dimensions</b>                                                 |                                                                                                                                                                                                        |
| <b>mounting position</b>                                                                  | any                                                                                                                                                                                                    |
| <b>fastening method</b>                                                                   | direct mounting / stand-alone installation                                                                                                                                                             |
| <b>height</b>                                                                             | 119 mm                                                                                                                                                                                                 |
| <b>width</b>                                                                              | 120 mm                                                                                                                                                                                                 |
| <b>depth</b>                                                                              | 145 mm                                                                                                                                                                                                 |
| <b>required spacing</b>                                                                   |                                                                                                                                                                                                        |
| • top                                                                                     | 30 mm                                                                                                                                                                                                  |
| • bottom                                                                                  | 30 mm                                                                                                                                                                                                  |
| • left                                                                                    | 0 mm                                                                                                                                                                                                   |
| • right                                                                                   | 0 mm                                                                                                                                                                                                   |
| <b>Connections/ Terminals</b>                                                             |                                                                                                                                                                                                        |
| <b>type of electrical connection</b>                                                      |                                                                                                                                                                                                        |
| • for main current circuit                                                                | busbar connection                                                                                                                                                                                      |
| <b>type of connectable conductor cross-sections at the measurement inputs for current</b> |                                                                                                                                                                                                        |
| • solid with core end processing                                                          | 16 mm <sup>2</sup> ... 95 mm <sup>2</sup>                                                                                                                                                              |
| • stranded with core end processing                                                       | 25 mm <sup>2</sup> ... 120 mm <sup>2</sup>                                                                                                                                                             |
| • for AWG cables                                                                          | 6 kcmil ... 300 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>                                    |                                                                                                                                                                                                        |
| • 1 maximum                                                                               | 2 000 m                                                                                                                                                                                                |
| • 2 maximum                                                                               | 3 000 m; max. +50 °C (no protective separation)                                                                                                                                                        |
| • 3 maximum                                                                               | 4 000 m; max. +40 °C (no protective separation)                                                                                                                                                        |
| <b>ambient temperature</b>                                                                |                                                                                                                                                                                                        |
| • during operation                                                                        | -25 ... +60 °C                                                                                                                                                                                         |
| • during storage                                                                          | -40 ... +80 °C                                                                                                                                                                                         |
| • during transport                                                                        | -40 ... +80 °C                                                                                                                                                                                         |
| <b>environmental category</b>                                                             |                                                                                                                                                                                                        |
| • during operation according 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 according 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 according to IEC 60721                                                 | 2K2, 2C1, 2S1, 2M2                                                                                                                                                                                     |
| relative humidity during operation                                                        | 5 ... 95 %                                                                                                                                                                                             |
| <b>Short-circuit protection</b>                                                           |                                                                                                                                                                                                        |
| <b>product function short circuit protection</b>                                          | No                                                                                                                                                                                                     |
| IEC 61508                                                                                 |                                                                                                                                                                                                        |
| Safety Integrity Level (SIL) according to IEC 61508                                       | 1                                                                                                                                                                                                      |
| <b>ATEX</b>                                                                               |                                                                                                                                                                                                        |
| <b>certificate of suitability</b>                                                         |                                                                                                                                                                                                        |
| • 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>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                                                                                                                                                                                                      |

|                                                                                                                                                                                       |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| adjustable current response value current of the current-dependent overload release                                                                                                   | 20 ... 200 A                   |
| operating voltage <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 |
| operating frequency rated value                                                                                                                                                       | 50 ... 60 Hz                   |

#### Control circuit/ Control

|                 |    |
|-----------------|----|
| type of voltage | AC |
|-----------------|----|

#### Approvals Certificates

|             |                          |
|-------------|--------------------------|
| Environment | General Product Approval |
|-------------|--------------------------|

[Environmental Confirmations](#)



|                          |     |                                |
|--------------------------|-----|--------------------------------|
| General Product Approval | EMV | For use in hazardous locations |
|--------------------------|-----|--------------------------------|



|                                |                   |                      |
|--------------------------------|-------------------|----------------------|
| For use in hazardous locations | Test Certificates | Maritime application |
|--------------------------------|-------------------|----------------------|



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



|                      |       |                          |
|----------------------|-------|--------------------------|
| Maritime application | other | Industrial Communication |
|----------------------|-------|--------------------------|



[Confirmation](#)

[Confirmation](#)



#### Further information

Information on the packaging

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

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3UF7103-1BA00-0>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7103-1BA00-0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3UF7103-1BA00-0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3UF7103-1BA00-0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7103-1BA00-0&lang=en)



