SIEMENS

## Data sheet 3UF7510-1AA00-0

Ground fault module with analog residual current detection for connection of a residual-current transformer 3UL23, max. 1 ground fault module per, for SIMOCODE pro V basic unit

| | |
|---|---|
| **product brand name** | SIRIUS |
| **product designation** | ground fault modules |
| **manufacturer's article number** | |
| ● 1 of residual current transformer connectable | 3UL2302-1A |
| ● 2 of residual current transformer connectable | 3UL2303-1A |
| ● 3 of residual current transformer connectable | 3UL2304-1A |
| ● 4 of residual current transformer connectable | 3UL2305-1A |
| ● 5 of residual current transformer connectable | 3UL2306-1A |
| ● 6 of residual current transformer connectable | 3UL2307-1A |
| **General technical data** | |
| **type of current for monitoring** | AC and pulse-shaped direct currents (type A) |
| **response time maximum** | 100 ms |
| **product component** | |
| ● input for thermistor connection | No |
| ● input for analog temperature sensors | No |
| ● input for ground fault detection | Yes |
| **protection class IP** | IP20 |
| shock resistance acc. to IEC 60068-2-27 | 15g / 11 ms |
| vibration resistance acc. to IEC 60068-2-6 | 1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g |
| **Substance Prohibitance (Date)** | 01.05.2012 |
| **measurable line frequency initial value** | 400 Hz |
| **measurable line frequency full-scale value** | 16 Hz |
| **relative measurement deviation of residual current transformer** | 2.5 % |
| **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 | 1 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 |
| ● due to high-frequency radiation acc. to IEC 61000-4-6 | 10 V |
| **field-based interference acc. to IEC 61000-4-3** | 10 V/m |
| **electrostatic discharge acc. to IEC 61000-4-2** | 6 kV contact discharge / 8 kV air discharge |
| **field-bound HF interference emission acc. to CISPR11** | corresponds to degree of severity A |
| **Inputs/ Outputs** | |
| **number of inputs** | 1 |
| **number of digital inputs** | 0 |


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| | |
|---|---|
| **number of analog inputs** | 1 |
| number of sensor inputs for ground fault detection | 1 |
| **number of outputs** | 0 |
| **number of semiconductor outputs** | 0 |
| **number of outputs as contact-affected switching element** | 0 |
| **number of analog outputs** | 0 |
| **Installation/ mounting/ dimensions** | |
| **mounting position** | any |
| **fastening method** | screw and snap-on mounting |
| **height** | 92 mm |
| **width** | 22.5 mm |
| **depth** | 124 mm |
| **required spacing** | |
| • top | 40 mm |
| • bottom | 40 mm |
| • left | 0 mm |
| • right | 0 mm |
| **diameter of inlet opening of connectable residual current transformer** | 35 ... 210 mm |
| **Connections/ Terminals** | |
| **type of connectable conductor cross-sections** | |
| • solid | 1x (0.5 ... 4.0 mm²), 2x (0.5 ... 2.5 mm²) |
| • finely stranded with core end processing | 1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²) |
| • at AWG cables solid | 1x (20 ... 14), 2x (20 ... 16) |
| • at AWG cables stranded | 1x (20 ... 12), 2x (20 ... 14) |
| tightening torque with screw-type terminals | 0.8 ... 1.2 N·m |
| tightening torque [lbf·in] with screw-type terminals | 7 ... 10.3 lbf·in |
| **Ambient conditions** | |
| **installation altitude at height above sea level** | |
| • 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) |
| **ambient temperature** | |
| • during operation | -25 ... +60 °C |
| • during storage | -40 ... +80 °C |
| • during transport | -40 ... +80 °C |
| **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 % |
| **Safety related data** | |
| **touch protection against electrical shock** | finger-safe |
| **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. 2668, must be observed. |

**Certificates/ approvals**

| General Product Approval | | EMC |
|---|---|---|
| CSA | Confirmation | EAC, RCM |

| Declaration of Conformity | Test Certificates | Marine / Shipping | other |
|---|---|---|---|


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EG-Konf.

Type Test Certific-ates/Test Report

ABS

DNV-GL

Confirmation

## other

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=3UF7510-1AA00-0
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7510-1AA00-0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3UF7510-1AA00-0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7510-1AA00-0&lang=en
**Test report No. A0258, protective separation**
https://support.industry.siemens.com/cs/ww/en/view/109748152

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