



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

product designation

manufacturer's article number

- 1 of residual current transformer connectable
- 2 of residual current transformer connectable
- 3 of residual current transformer connectable
- 4 of residual current transformer connectable
- 5 of residual current transformer connectable
- 6 of residual current transformer connectable

SIRIUS

ground fault modules

[3UL2302-1A](#)

[3UL2303-1A](#)

[3UL2304-1A](#)

[3UL2305-1A](#)

[3UL2306-1A](#)

[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
- input for analog temperature sensors
- input for ground fault detection

No

No

Yes

consumed active power

0.1 W

protection class IP

IP20

shock resistance according to IEC 60068-2-27

15g / 11 ms

vibration resistance according to IEC 60068-2-6

1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g

Substance Prohibitance (Date)

05/01/2012

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 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
- due to conductor-earth surge according to IEC 61000-4-5
- due to conductor-conductor surge according to IEC 61000-4-5
- due to high-frequency radiation according to IEC 61000-4-6

1 kV

2 kV

1 kV

10 V

field-based interference according to IEC 61000-4-3

10 V/m

electrostatic discharge according to IEC 61000-4-2

6 kV contact discharge / 8 kV air discharge

field-bound HF interference emission according to CISPR11

corresponds to degree of severity A

Inputs/ Outputs

number of inputs

1

| | |
|---|---|
| number of digital inputs | 0 |
| 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 mm ²), 2x (0.5 ... 2.5 mm ²) |
| • finely stranded with core end processing | 1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²) |
| • 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 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 % |

Safety related data

| | |
|---|-------------|
| touch protection against electrical shock | finger-safe |
|---|-------------|

Galvanic isolation

| | |
|---|---|
| (electrically) protective separation according 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 | Declaration of Conformity |
|--------------------------|-----|---------------------------|



[Confirmation](#)



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

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=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,...)

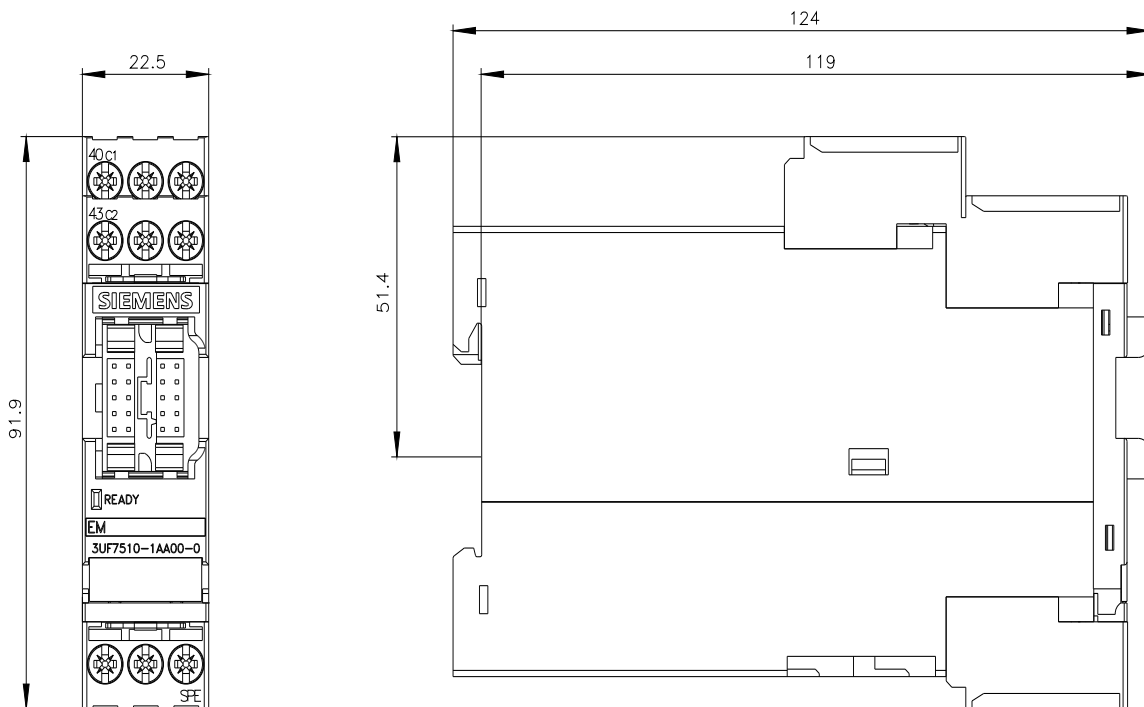
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7510-1AA00-0>

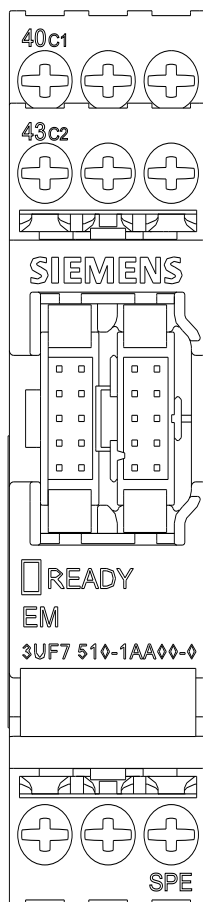
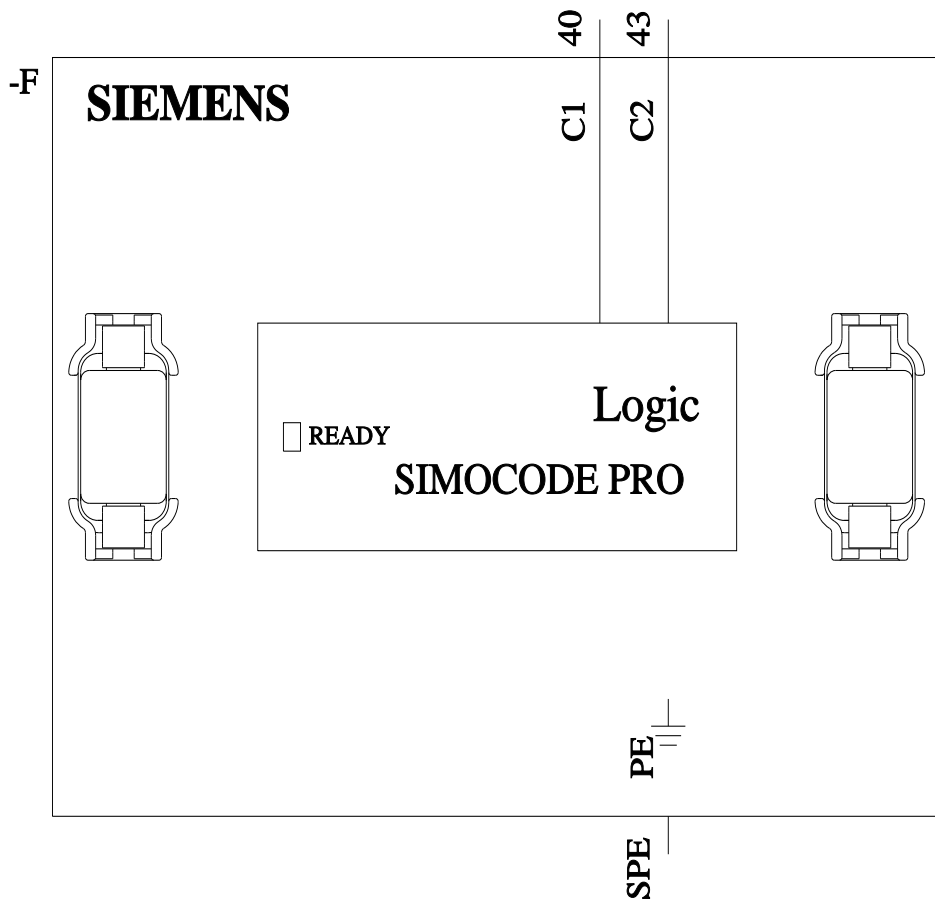
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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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