



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
- 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

[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 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 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
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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.
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Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
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[Confirmation](#)



Declaration of Conformity	Test Certificates	Marine / Shipping	other
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other



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,...)

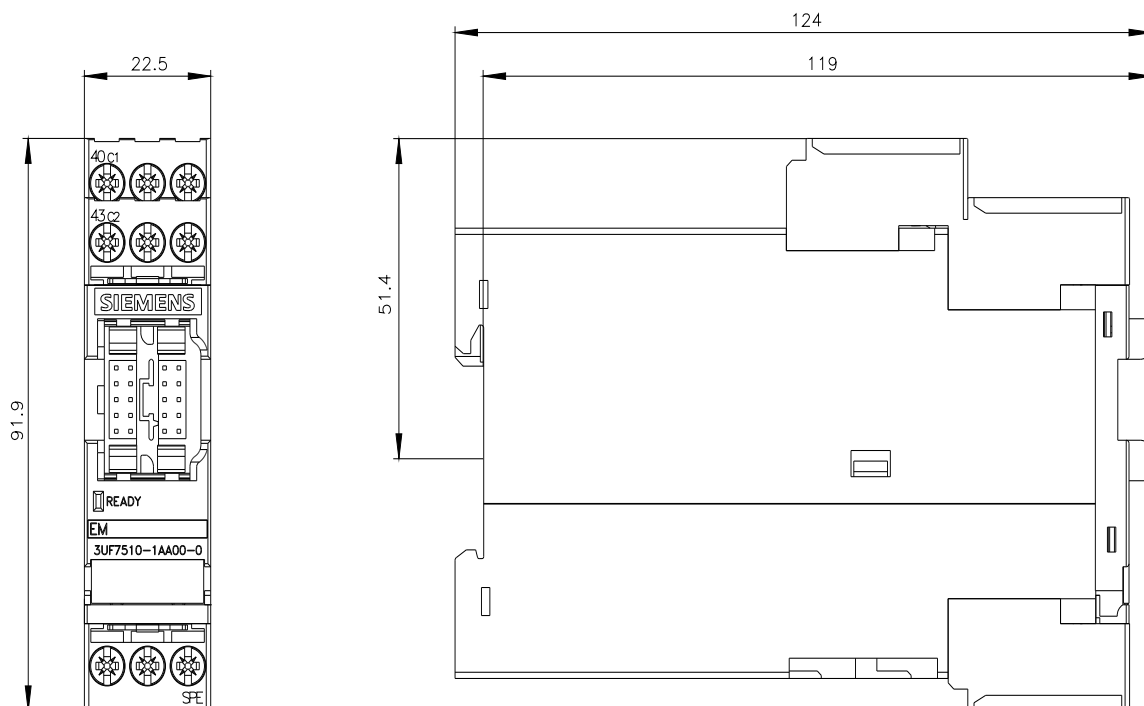
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7510-1AA00-0>

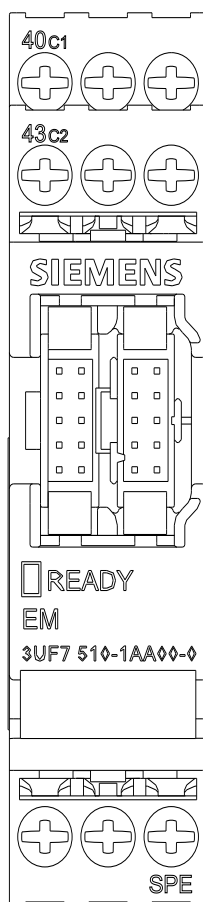
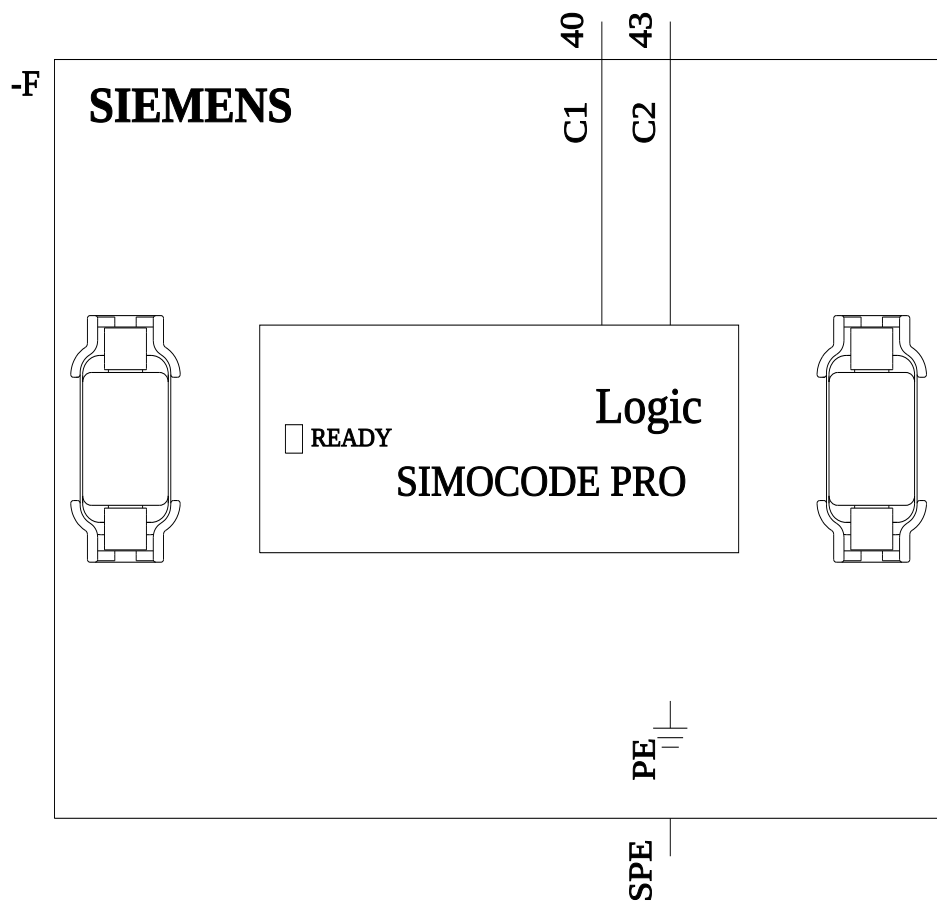
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

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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4/7/2022