

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	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • input for thermistor connection • input for analog temperature sensors • input for ground fault detection 	No No Yes
Protection class IP	IP20
Shock resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-27 	15g / 11 ms

Vibration resistance	
<ul style="list-style-type: none"> • acc. to IEC 60068-2-6 	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g
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	
<ul style="list-style-type: none"> • acc. to IEC 60947-1 	class A
EMI immunity acc. to IEC 60947-1	corresponds to degree of severity 3
Conducted interference	
<ul style="list-style-type: none"> • due to burst acc. to IEC 61000-4-4 	1 kV
<ul style="list-style-type: none"> • due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
<ul style="list-style-type: none"> • due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV
<ul style="list-style-type: none"> • due to high-frequency radiation acc. to IEC 61000-4-6 	10 V
Field-bound parasitic coupling 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
Number of analog inputs	1
Number of sensor inputs	
<ul style="list-style-type: none"> • 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
Mounting type	screw and snap-on mounting
Height	92 mm
Width	22.5 mm
Depth	124 mm
Required spacing	
<ul style="list-style-type: none"> • top 	40 mm
<ul style="list-style-type: none"> • bottom 	40 mm

<ul style="list-style-type: none"> • left 	0 mm
<ul style="list-style-type: none"> • right 	0 mm
Diameter of feed through opening of connectable residual current transformer	35 ... 210 mm

Connections/ Terminals

Type of electrical connection	
<ul style="list-style-type: none"> • for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • solid 	1x (0.5 ... 4.0 mm ²), 2x (0.5 ... 2.5 mm ²)
<ul style="list-style-type: none"> • finely stranded with core end processing 	1x (0.5 ... 2.5 mm ²), 2x (0.5 ... 1.5 mm ²)
<ul style="list-style-type: none"> • at AWG conductors solid 	1x (20 ... 14), 2x (20 ... 16)
<ul style="list-style-type: none"> • at AWG conductors stranded 	1x (20 ... 12), 2x (20 ... 14)
Tightening torque	
<ul style="list-style-type: none"> • with screw-type terminals 	0.8 ... 1.2 N·m
Tightening torque [lbf·in]	
<ul style="list-style-type: none"> • with screw-type terminals 	7 ... 10.3 lbf·in

Ambient conditions

Installation altitude at height above sea level	
<ul style="list-style-type: none"> • 1 maximum 	2 000 m
<ul style="list-style-type: none"> • 2 maximum 	3 000 m; No protective separation at 50 °C
<ul style="list-style-type: none"> • 3 maximum 	4 000 m; No protective separation at 40 °C
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +60 °C
Environmental category	
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2
Relative humidity	
<ul style="list-style-type: none"> • during operation 	5 ... 95 %

Safety related data

Protection against electrical shock	finger-safe
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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.
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Certificates/ approvals

General Product Approval	EMC	Declaration of Conformity
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CCC



CSA



UL



RCM



EG-Konf.

Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)



ABS



RMRS



DNV-GL
DNVGL.COM/AF

[Confirmation](#)



Profibus

other

[PROFINET-Certification](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

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,...)

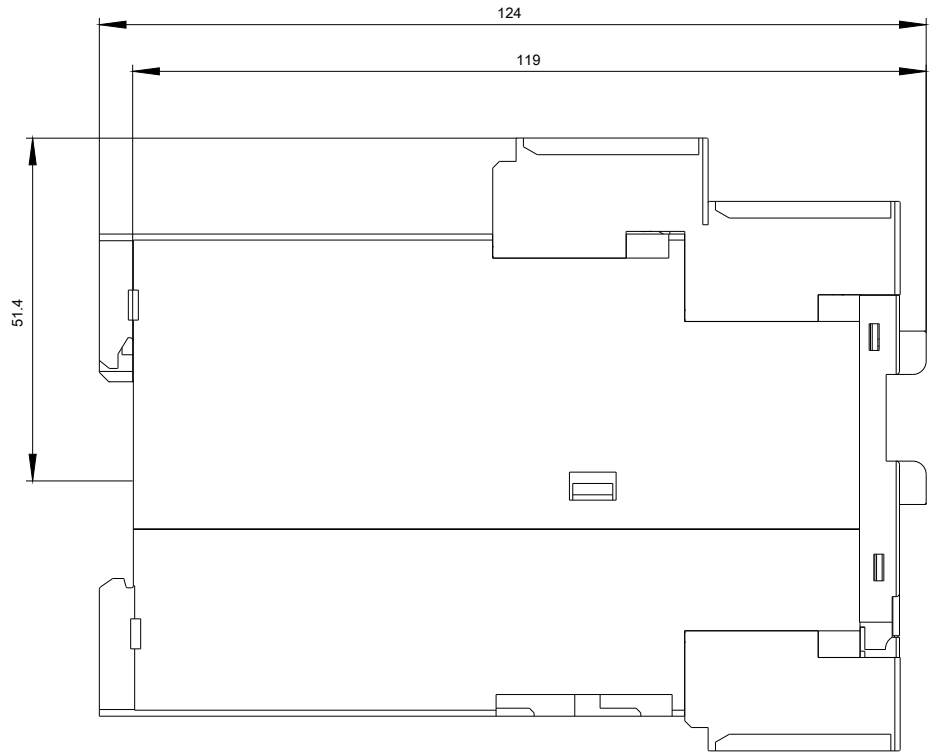
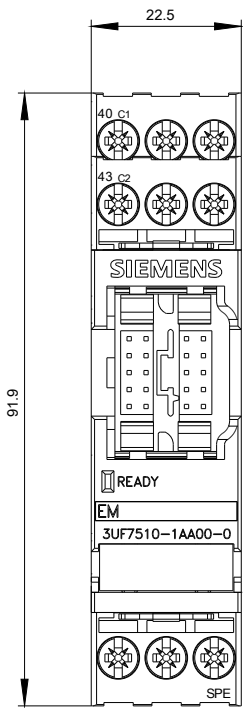
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7510-1AA00-0>

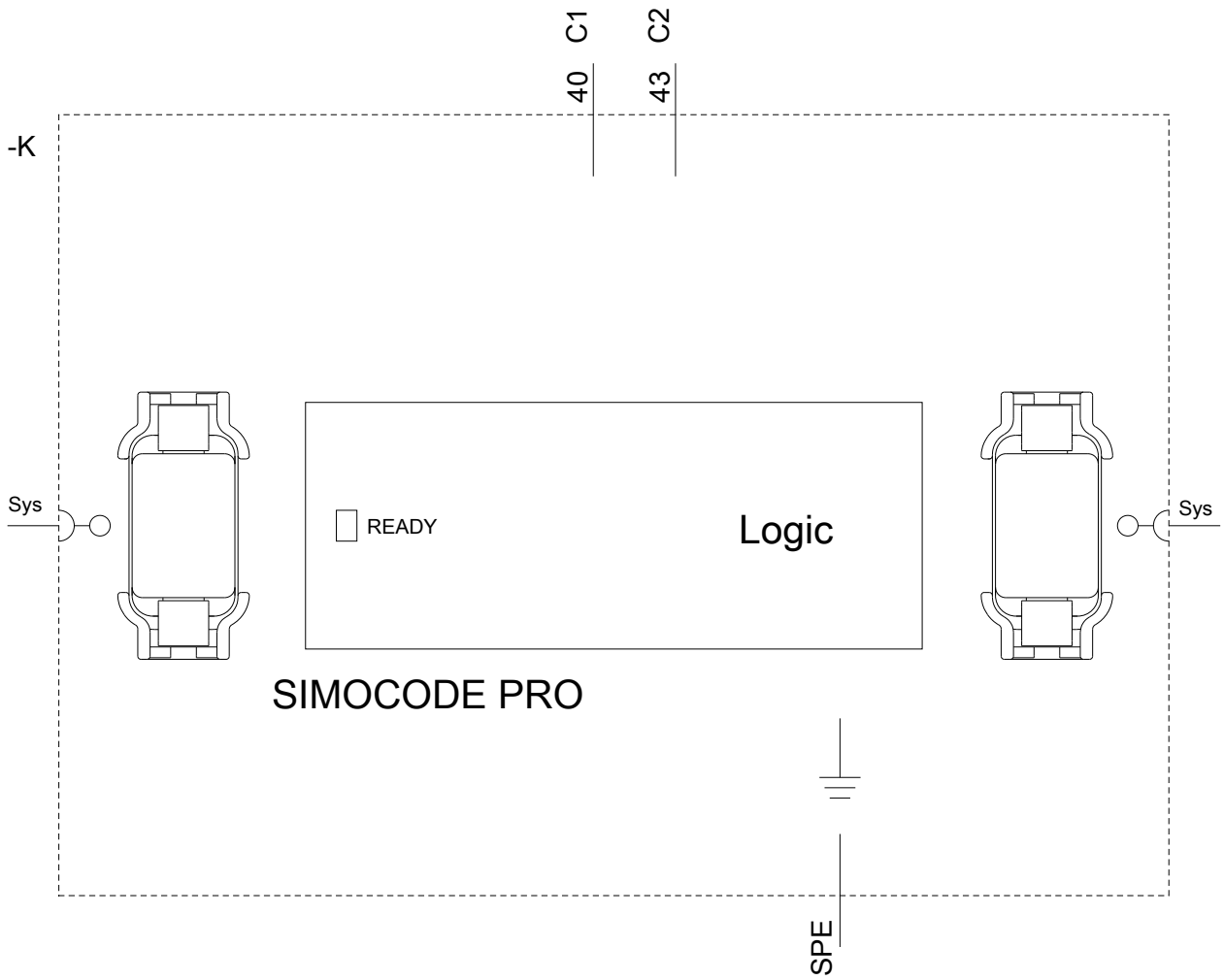
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

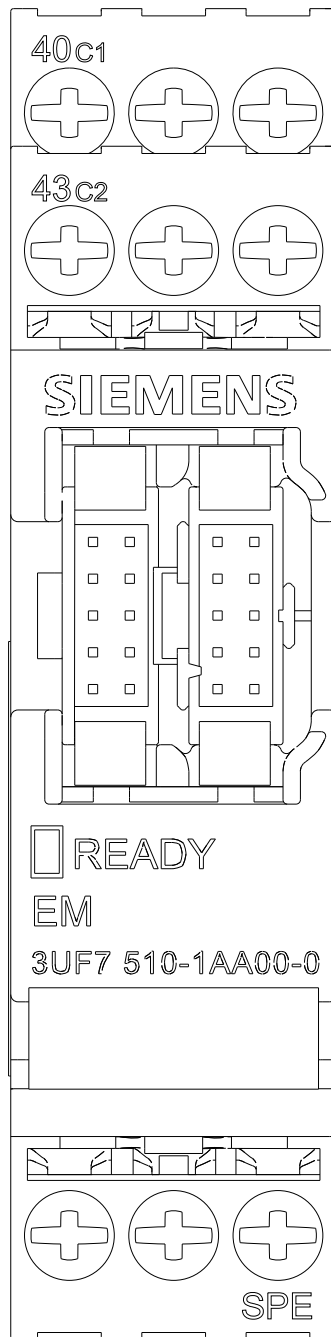
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7510-1AA00-0&lang=en

Test report No. A0258, protective separation

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







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