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
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	1 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
● due to high-frequency radiation according to IEC 61000-4-6	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
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	

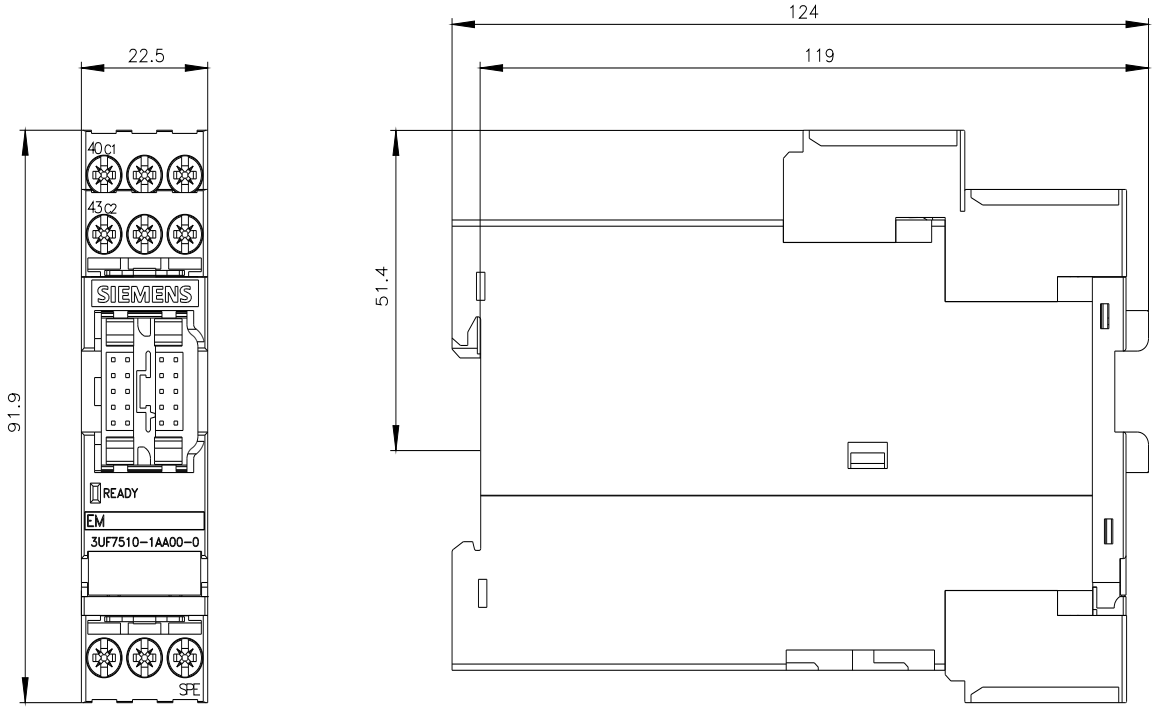
General Product Approval						EMC
CSA	Confirmation	CCC	UL	EAC	RCM	

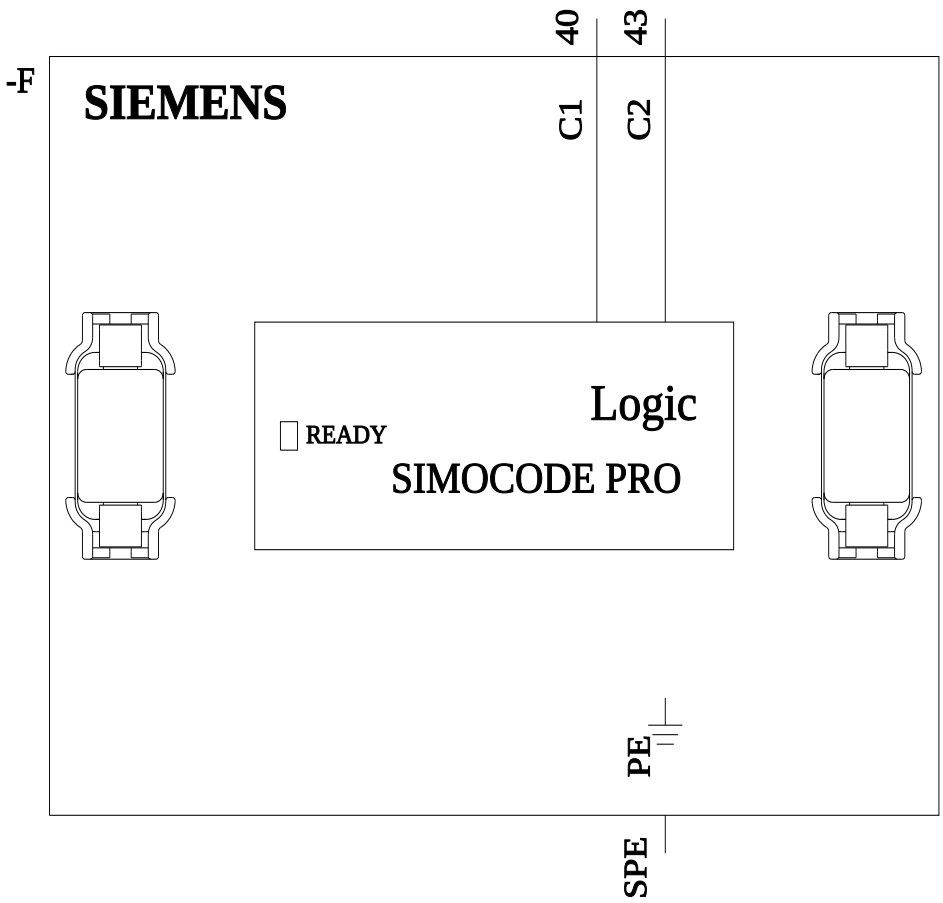
Declaration of Conformity	Test Certificates	Marine / Shipping			other
EG-Konf.	Type Test Certific-ates/Test Report	ABS	RMRS	DNV·GL	Confirmation

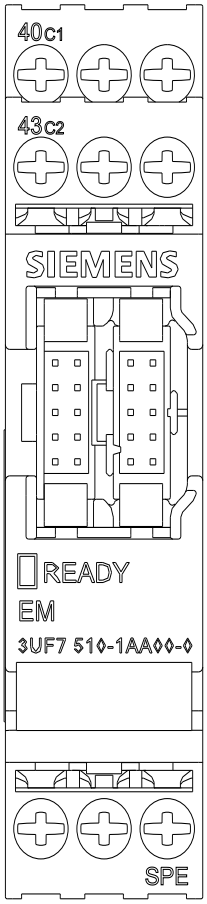
other
Profibus

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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