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Data sheet 3UF7400-1AA00-0



Analog module, 2 inputs (passive) and 1 output, for analog signals 0/4...20 mA for SIMOCODE pro V basic unit

product brand name	SIMOCODE
product designation	analog modules
product type designation	AM
General technical data	
product component	
● input for thermistor connection	No
● input for analog temperature sensors	No
● input for ground fault detection	No
consumed active power	0.9 W
surge voltage resistance rated value	4 000 V
shock resistance according to IEC 60068-2-27	15 g / 11 ms
vibration resistance according to IEC 60068-2-6	1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2 g
reference code according to IEC 81346-2	B
reference code according to IEC 81346-2:2019	B
Substance Prohibitance (day/month/year)	05/01/2012
SVHC substance name	Lead monoxide (lead oxide) CAS-No. 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 Melamine CAS-No. 108-78-1 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol CAS-No. 119-47-1
Net Weight	0.11 kg
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
field-based interference according to IEC 61000-4-3	10 V/m
Inputs/ Outputs	
number of inputs	2
number of digital inputs	0
number of analog inputs	2
input current as destruction limit maximum permissible	40 mA
input resistance	50 Ω
A/D resolution at the analog input	12 bit
A/D conversion time at the analog input	150 ms
diagnostics function at the analog input open-circuit detection	Yes
measuring range of current parameterizable	0/4 mA ... 20 mA

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relative symmetrical measuring accuracy	1 %
relative symmetrical accuracy of output signal	1 %
number of outputs	1
number of semiconductor outputs	0
number of outputs as contact-affected switching element	0
number of analog outputs	1
output load at analog output maximum	500 Ω
D/A conversion time at analog output	25 ms
A/D resolution at analog output	12 bit
output voltage maximum	30 V
type of voltage of the output voltage	DC
property of the output short-circuit proof	Yes
value range of output current parameterizable	0/4 mA ... 20 mA
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
Connections/ Terminals	
type of electrical connection for auxiliary and control circuit	screw-type terminals
type of connection technology	2-wire connection
type of shield	
● at input	shield recommended up to 30 m and/or when exiting control cabinet, shield required from 30 m
● at output	shield recommended up to 30 m and/or when exiting control cabinet, shield required from 30 m
type of connectable conductor cross-sections	
● solid	1x (0.5 ... 4.0mm²), 2x (0.5 ... 2.5 mm²)
● finely stranded with core end processing	1x (0.5 ... 2.5 mm²), 2x (0.5 ... 1.5 mm²)
● for AWG cables solid	1x (20 ... 14), 2x (20 ... 16)
● for 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 %
Electrical Safety	
touch protection against electrical shock	finger-safe
Galvanic isolation	
galvanic isolation	
● between output and electronics	No

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● between inputs and electronics	No

Approvals Certificates

Environment	General Product Approval				
Environmental Confirmations					

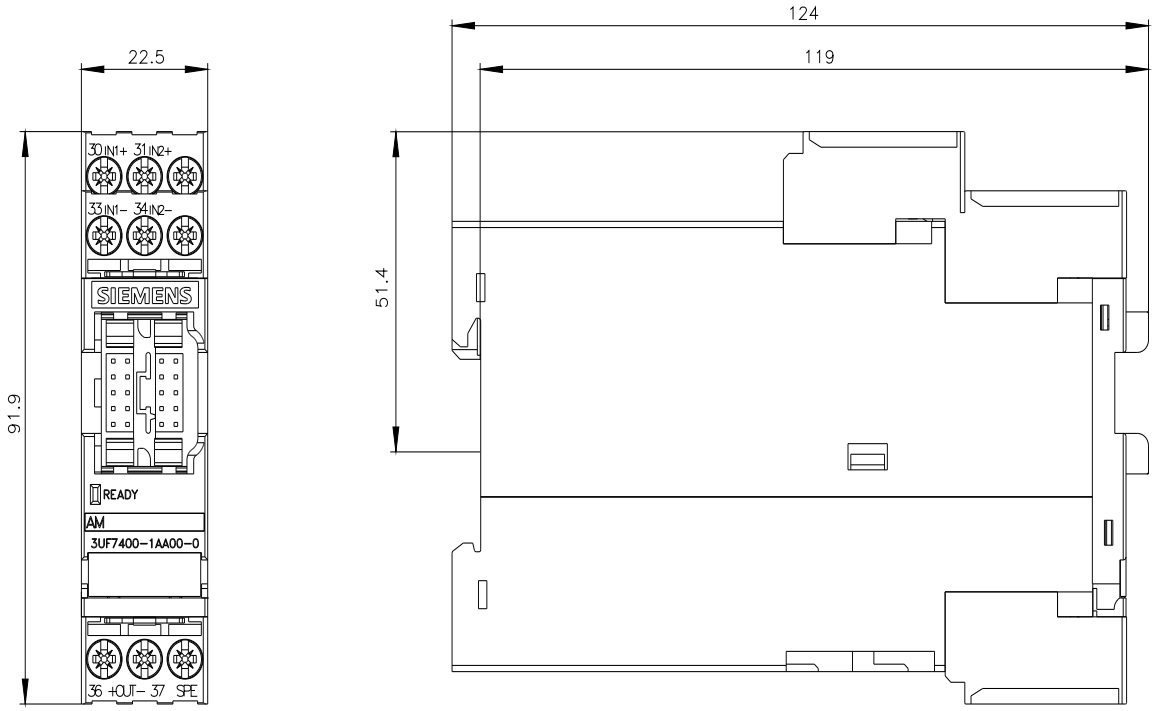
General Product Approval		EMV		Test Certificates	Maritime application
				Type Test Certificates/Test Report	

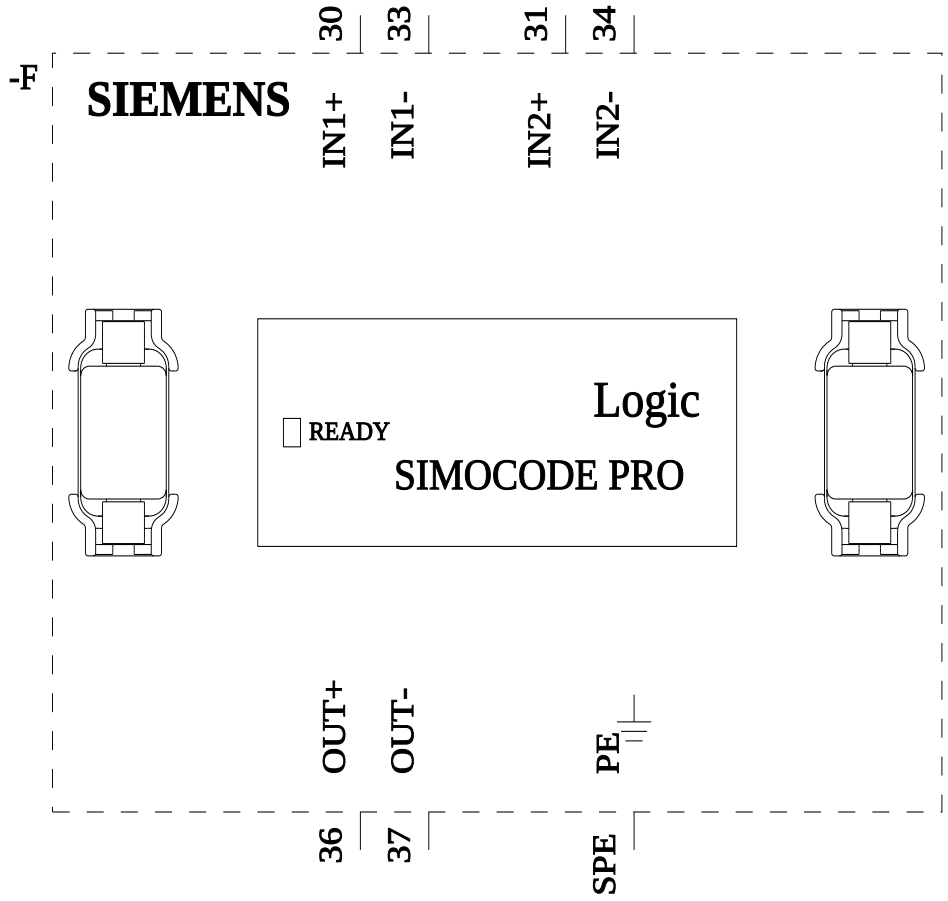
Maritime application	other		Industrial Communication
	Confirmation		

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
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=3UF7400-1AA00-0
Cax online generator
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7400-1AA00-0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3UF7400-1AA00-0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7400-1AA00-0&lang=en

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