SIEMENS

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	SIRIUS
product designation	analog modules
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
protection class IP	IP20
shock resistance according to IEC 60068-2-27	15g / 11 ms
reference code according to IEC 81346-2	B
reference code according to IEC 81346-2:2019	B
Substance Prohibitance (Date)	05/01/2012
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8 2-Methyl-1-(4-methylthiophenyl)-2-morpho - 71868-10-5 Bleititanzirkonoxid - 12626-81-2
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
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	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 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 ... 4.0 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)
● 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 %
Safety related data	
touch protection against electrical shock	finger-safe
Galvanic isolation	
galvanic isolation	
● between output and electronics	No
● between inputs and electronics	No

Certificates/ approvals

General Product Approval	**EMC**

CSA	CCC	Confirmation	UL	EAC	RCM

Declaration of Conformity		Test Certificates	Marine / Shipping		
UKCA	CE EG-Konf.	Type Test Certificates/Test Report	ABS	RMRS	DNV·GL

other	
Confirmation	Profibus

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

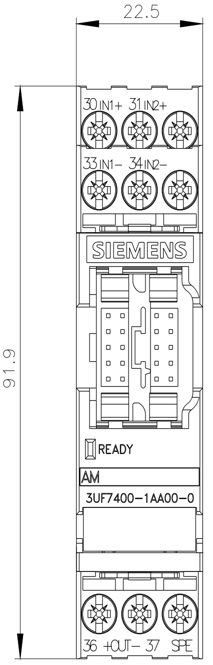
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3UF7400-1AA00-0

Cax online generator
http://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, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7400-1AA00-0&lang=en

Test report No. A0258, protective separation
https://support.industry.siemens.com/cs/ww/en/view/109748152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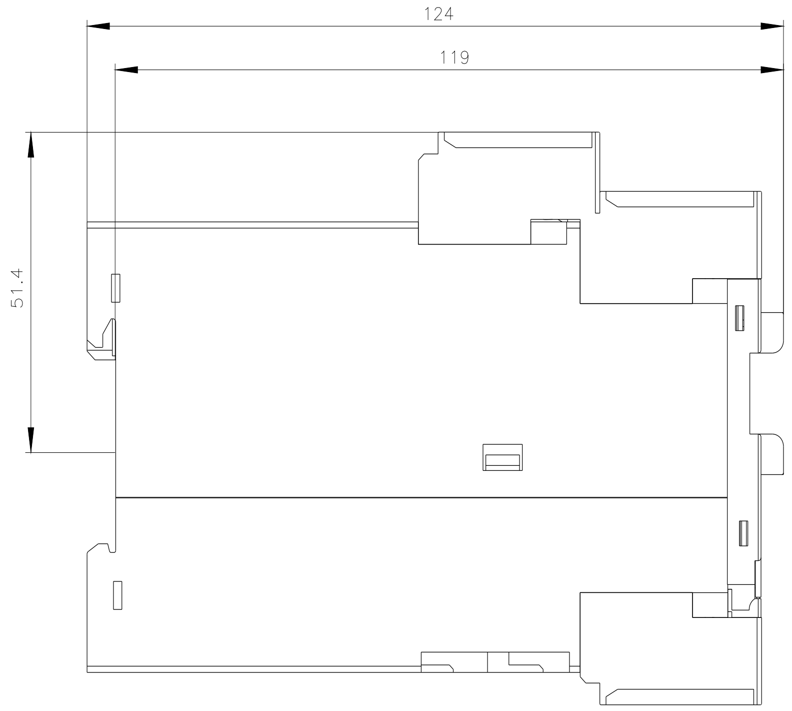

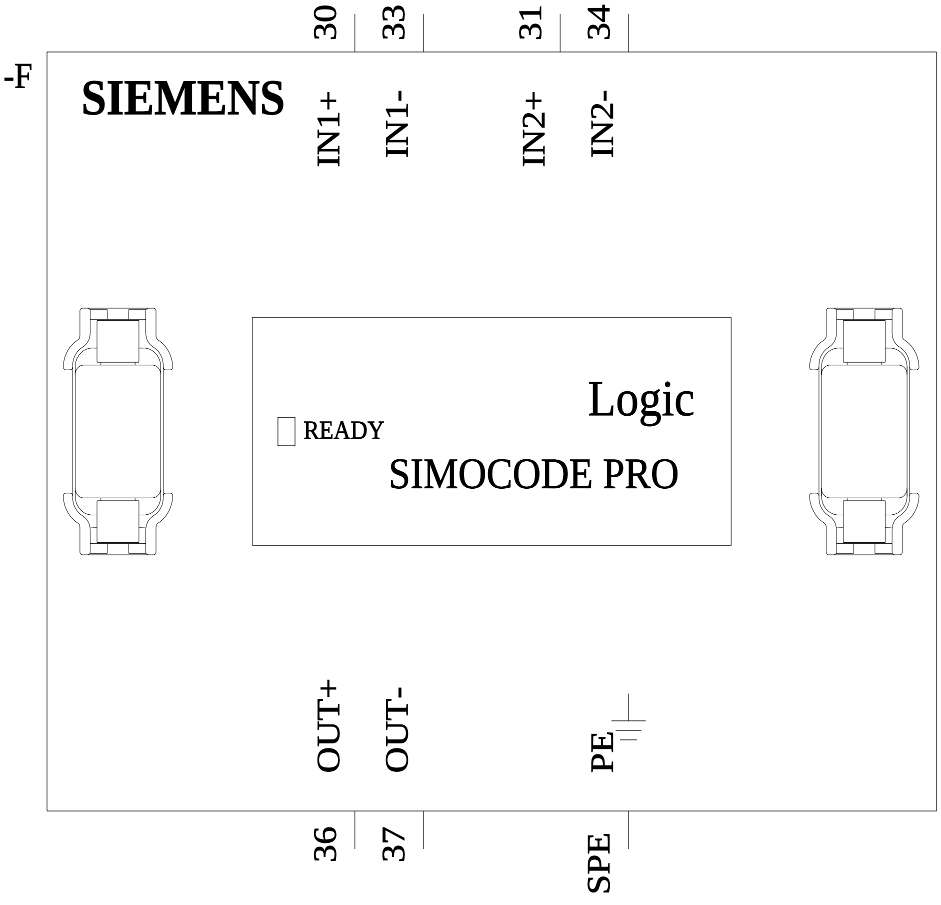
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Logic
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