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** | 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<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5<br>Melamine CAS-No. 108-78-1<br>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 |  |  |  |  |  |

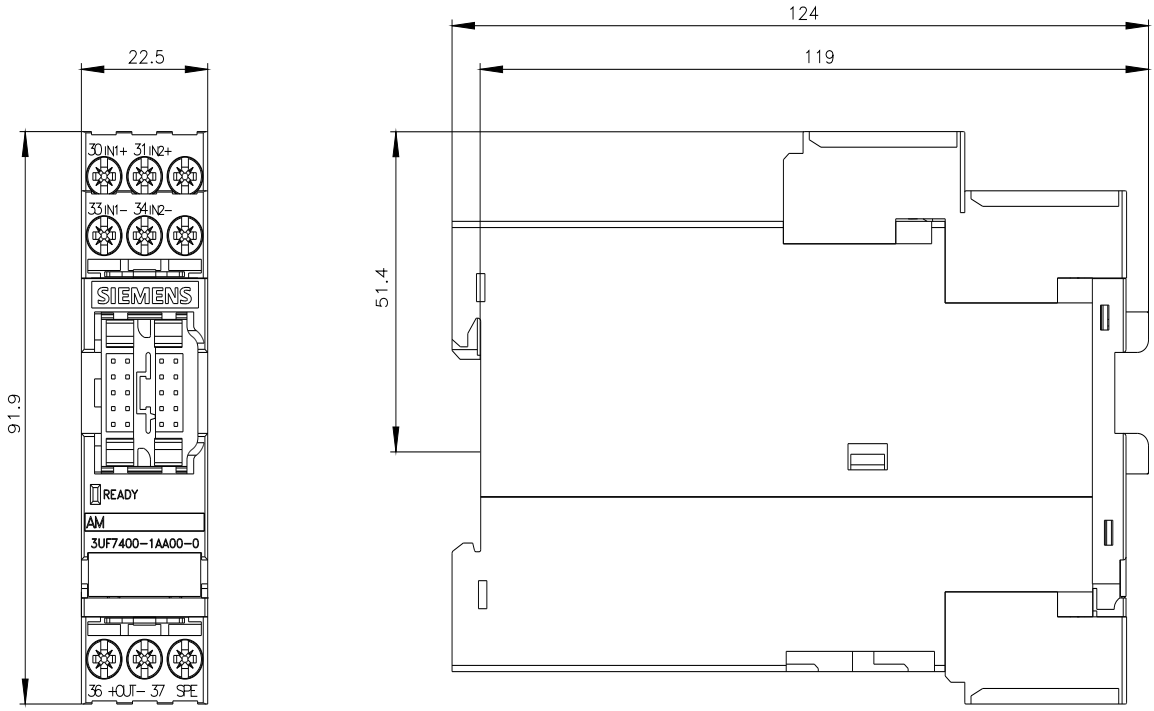
| General Product Approval | | EMV | | Test Certificates | Maritime application |
|---|---|---|---|---|---|
|  |  |  |  | Type Test Certificates/Test Report |  |

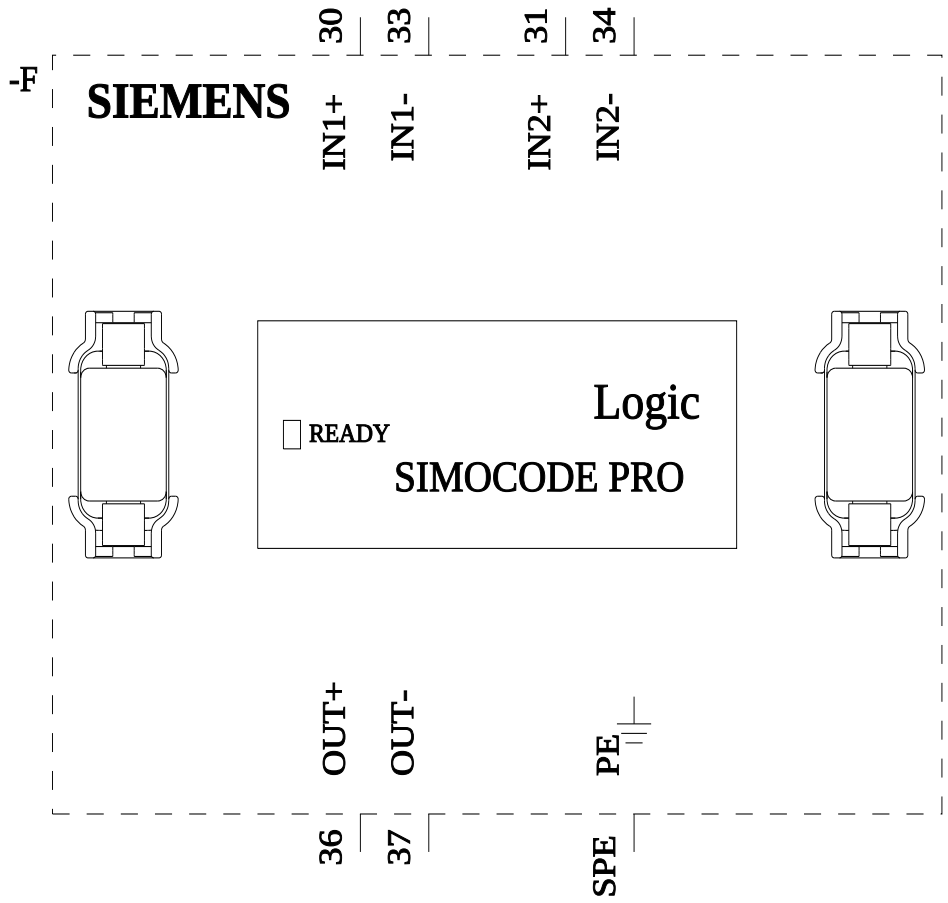
| Maritime application | other | | Industrial Communication |
|---|---|---|---|
|  | Confirmation |  |  |

## 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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