



Temperature module, 3 inputs for connection of up to 3 temperature sensors, for SIMOCODE pro V basic unit

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| product brand name | SIRIUS |
| product designation | temperature module |
| General technical data | |
| product component | |
| • input for thermistor connection | No |
| • input for analog temperature sensors | Yes |
| • input for ground fault detection | No |
| surge voltage resistance rated value | 4 000 V |
| protection class IP | IP20 |
| shock resistance acc. to IEC 60068-2-27 | 15g / 11 ms |
| vibration resistance acc. to IEC 60068-2-6 | 1 ... 6 Hz: 15 mm, 6 ... 500 Hz: 2g |
| reference code acc. to IEC 81346-2 | B |
| measurable temperature | |
| • initial value | -50 °C |
| • full-scale value | 500 °C |
| Substance Prohibitance (Date) | 01.05.2012 00:00:00 |
| measurable temperature | |
| • with NTC minimum | 80 °C |
| • with NTC maximum | 160 °C |
| • with KTY 84 minimum | -40 °C |
| • with KTY 84 maximum | 300 °C |
| • with KTY 83-110 minimum | -50 °C |
| • with KTY 83-110 maximum | 175 °C |
| • with Pt 1000 minimum | -50 °C |
| • with Pt 1000 maximum | 500 °C |
| • with Pt 100 minimum | -50 °C |
| • with Pt 100 maximum | 500 °C |
| relative temperature-related measurement deviation at 20 °C | 2 % |
| sensor current for Pt 100 typical | 1 mA |
| sensor current for Pt 1000/KTY 83-110/KTY 84/NTC typical | 0.2 mA |
| diagnostics function at sensor input with Pt 100 | |
| • short-circuit detection | Yes |
| • open-circuit detection | Yes |
| diagnostics function at sensor input with Pt 1000 | |
| • short-circuit detection | Yes |
| • open-circuit detection | Yes |

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| diagnostics function at sensor input with KTY 83-110 | |
| • short-circuit detection | Yes |
| • open-circuit detection | Yes |
| diagnostics function at sensor input with KTY 84 | |
| • short-circuit detection | Yes |
| • open-circuit detection | Yes |
| diagnostics function at sensor input with NTC | |
| • short-circuit detection | Yes |
| • open-circuit detection | No |
| type of connection technology of sensor circuit | 2-wire or 3-wire connection |
| A/D conversion time at sensor circuit | 500 ms |
| Electromagnetic compatibility | |
| EMC emitted interference acc. to IEC 60947-1 | class A |
| EMC immunity acc. to IEC 60947-1 | corresponds to degree of severity 3 |
| conducted interference | |
| • due to burst acc. to IEC 61000-4-4 | 1 kV |
| • due to conductor-earth surge acc. to IEC 61000-4-5 | 2 kV |
| • due to conductor-conductor surge acc. to IEC 61000-4-5 | 1 kV |
| field-based interference acc. to IEC 61000-4-3 | 10 V/m |
| Inputs/ Outputs | |
| number of inputs | 3 |
| number of digital inputs | 0 |
| number of analog inputs | 3 |
| number of outputs as contact-affected switching element | 0 |
| number of analog outputs | 0 |
| Protective and monitoring functions | |
| design of the sensor for temperature measurement connectable | PT100 / PT1000 / KTY83-110 / KTY84 / NTC |
| Precision | |
| temperature drift per °C | 0.05 %/°C |
| 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 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 |

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| <ul style="list-style-type: none"> during storage during transport | -40 ... +80 °C -40 ... +80 °C |
| environmental category | |
| <ul style="list-style-type: none"> during operation acc. to IEC 60721 | 3K6 (no formation of ice, no condensation), 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 | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| <ul style="list-style-type: none"> during transport acc. to IEC 60721 | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| relative humidity during operation | 5 ... 95 % |

Safety related data

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| touch protection against electrical shock | finger-safe |
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Galvanic isolation

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| galvanic isolation between inputs and electronics | No |
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Certificates/ approvals

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|---------------------------------|------------|----------------------------------|
| General Product Approval | EMC | Declaration of Conformity |
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| Test Certificates | Marine / Shipping | other |
|--------------------------|--------------------------|--------------|

[Type Test Certificates/Test Report](#)



[Confirmation](#)

[PROFINET-Certification](#)

other



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=3UF7700-1AA00-0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3UF7700-1AA00-0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

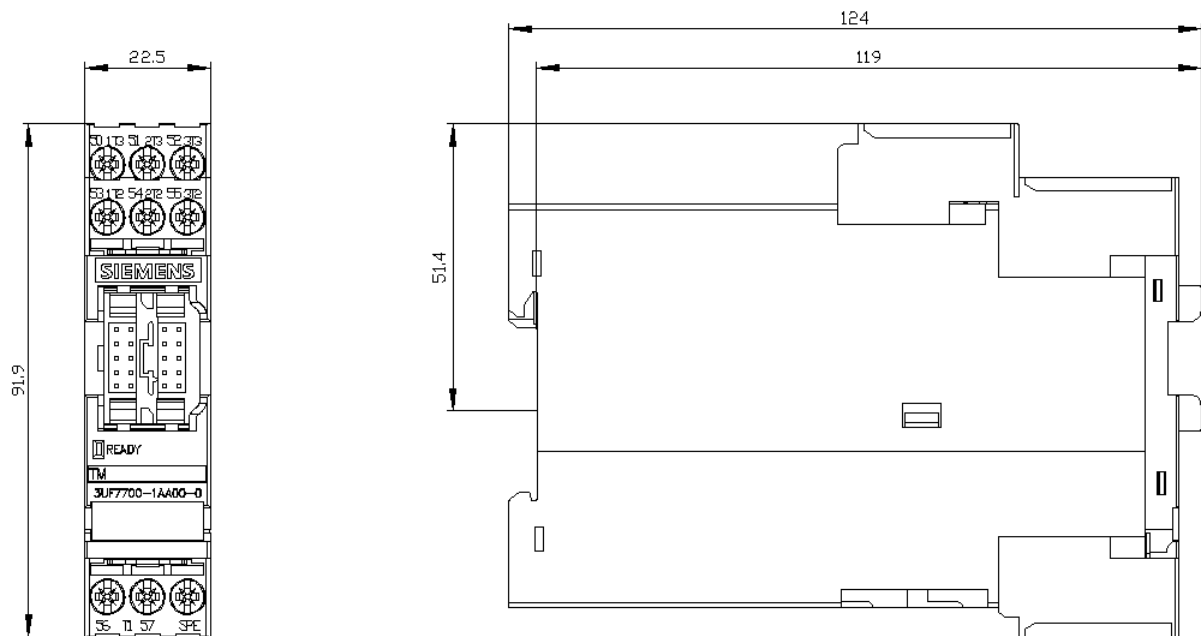
<https://support.industry.siemens.com/cs/ww/en/ps/3UF7700-1AA00-0>

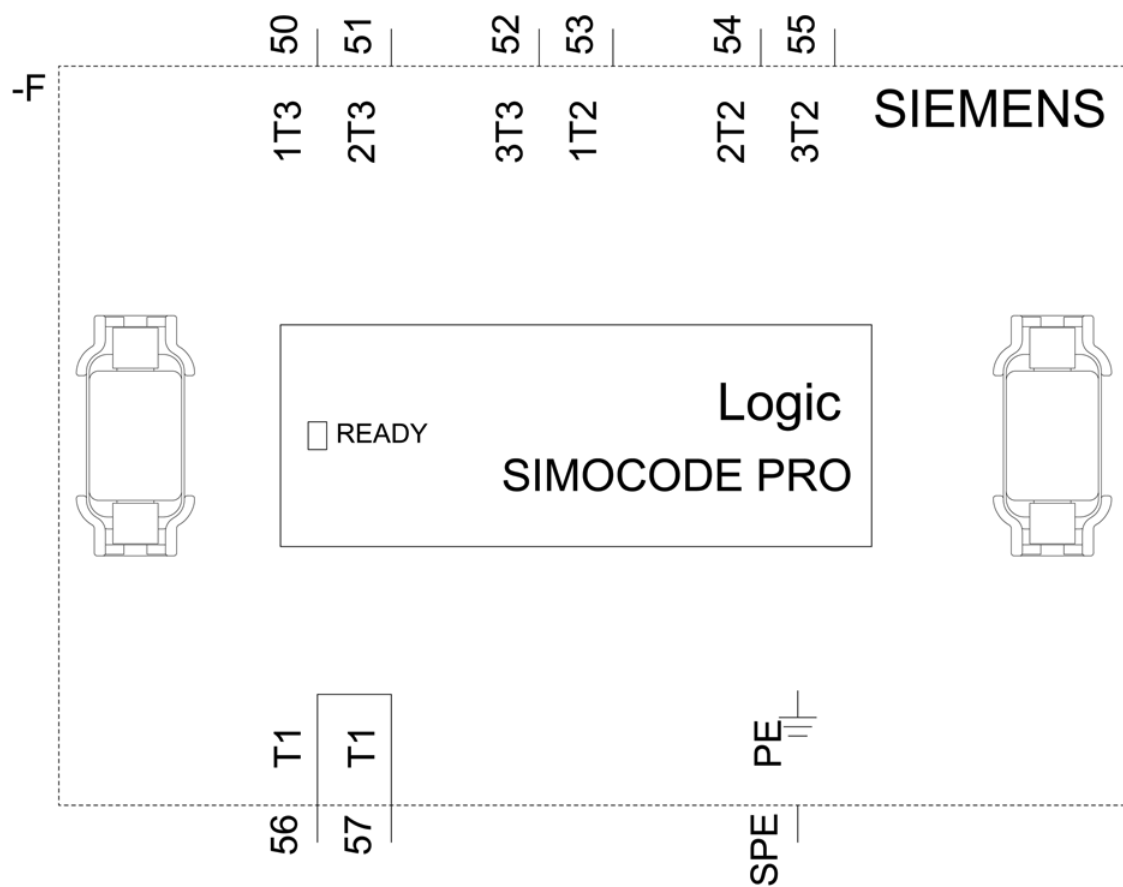
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3UF7700-1AA00-0&lang=en

Test report No. A0258, protective separation

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





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