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## Data sheet 6AG1055-1MD00-7BA2



SIPLUS LOGO! AM2 RTD based on 6ED1055-1MD00-0BA2 with conformal coating, -40…+70 °C, start up -25 °C, extension module, PS: 12/24 V DC, 2 AI -50...+200 °C Pt100/1000 for LOGO! 8

| | |
|---|---|
| **General information** | |
| based on | 6ED1055-1MD00-0BA2 |
| **Installation type/mounting** | |
| Mounting | on 35 mm DIN rail, 2 spacing units wide |
| **Supply voltage** | |
| Rated value (DC) | |
| ● 12 V DC | Yes; 10.8 V DC to 28.8 V DC |
| ● 24 V DC | Yes; 10.8 V DC to 28.8 V DC |
| **Input current** | |
| Current consumption, typ. | 30 mA |
| **Analog inputs** | |
| Number of analog inputs | 2; 2 or 3 wire connection |
| Input ranges | |
| ● Voltage | No |
| ● Current | No |
| ● Resistance thermometer | Yes; For PT100/PT1000 sensors |
| Input ranges (rated values), voltages | |
| ● 0 to +10 V | No |
| Input ranges (rated values), currents | |
| ● 0 to 20 mA | No |
| Input ranges (rated values), resistance thermometer | |
| ● Pt 100 | Yes |
| **EMC** | |
| Emission of radio interference acc. to EN 55 011 | |
| ● Limit class B, for use in residential areas | Yes |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| **Standards, approvals, certificates** | |
| Ecological footprint | |
| ● environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 16.5 kg |
| — global warming potential, (during production) [CO2 eq] | 3.22 kg |
| — global warming potential, (during operation) [CO2 eq] | 13.4 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.124 kg |
| **Ambient conditions** | |


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| | |
|---|---|
| Ambient temperature during operation | |
| ● min. | -40 °C; = Tmin; Startup @ -25 °C |
| ● max. | 70 °C; = Tmax |
| ● At cold restart, min. | -25 °C; incl. condensation / frost permitted (no commissioning under condensation conditions) |
| Altitude during operation relating to sea level | |
| ● Installation altitude above sea level, max. | 5 000 m |
| ● Ambient air temperature-barometric pressure-altitude | Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... (Tmax - 10 K) at 795 hPa ... 658 hPa (+2 000 m ... +3 500 m) // Tmin ... (Tmax -20 K) at 658 hPa ... 540 hPa (+3 500 m ... +5 000 m) |
| Relative humidity | |
| ● With condensation, tested in accordance with IEC 60068-2-38, max. | 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation |
| Resistance | |
| Coolants and lubricants | |
| — Resistant to commercially available coolants and lubricants | Yes; Incl. diesel and oil droplets in the air |
| Use in stationary industrial systems | |
| — to biologically active substances according to EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| — to chemically active substances according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust, * |
| Use on ships/at sea | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request |
| — to chemically active substances according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| — to mechanically active substances according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust; * |
| Usage in industrial process technology | |
| — Against chemically active substances acc. to EN 60654-4 | Yes; Class 3 (excluding trichlorethylene) |
| — Environmental conditions for process, measuring and control systems acc. to ANSI/ISA-71.04 | Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil) |
| Remark | |
| — Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 | * The supplied plug covers must remain in place over the unused interfaces during operation! |
| Conformal coating | |
| ● Coatings for printed circuit board assemblies acc. to EN 61086 | Yes; Class 2 for high reliability |
| ● Protection against fouling acc. to EN 60664-3 | Yes; Type 1 protection |
| ● Military testing according to MIL-I-46058C, Amendment 7 | Yes; Discoloration of coating possible during service life |
| ● Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal coating, Class A |

## Dimensions

| | |
|---|---|
| Width | 35.5 mm |
| Height | 90 mm |
| Depth | 58 mm |

## Classifications

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-01 |
| eClass | 14 | 27-24-22-01 |
| eClass | 12 | 27-24-22-01 |
| eClass | 9.1 | 27-24-22-01 |
| eClass | 9 | 27-24-22-01 |
| eClass | 8 | 27-24-22-01 |
| eClass | 7.1 | 27-24-22-01 |
| eClass | 6 | 27-24-22-01 |


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|---|---|---|
| ETIM | 10 | EC001420 |
| ETIM | 9 | EC001420 |
| ETIM | 8 | EC001420 |
| ETIM | 7 | EC001420 |
| IDEA | 4 | 3562 |
| UNSPSC | 15 | 32-15-17-05 |

## Approvals / Certificates

### General Product Approval




Manufacturer Declaration




China RoHS







| General Product Approval | EMV | Environment |
|---|---|---|
| China RoHS |   |   |

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