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## Data sheet 6AG1155-6BA01-7CN0



Figure similar

SIPLUS ET 200SP IM155-6DP HF based on 6ES7155-6BA01-0CN0 with conformal coating, -40…+70 °C, bundle PROFIBUS IM, max. 32 I/O modules and 16 ET 200AL modules, multi hot swap, bundle consists of: interface module (6AG1155-6BU01-7CN0), server module (6AG1193-6PA00-7AA0), PROFIBUS plug

| | |
|---|---|
| **General information** | |
| Product type designation | IM 155-6 DP HF |
| Firmware version | |
| ● FW update possible | Yes |
| based on | 6ES7155-6BA01-0CN0 |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Module swapping during operation (hot swapping) | Yes; Multi-hot swapping |
| ● Isochronous mode | No |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | see entry ID: 109746275 |
| **Configuration control** | |
| via dataset | Yes |
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 10 ms |
| **Input current** | |
| Current consumption, max. | 335 mA |
| Inrush current, max. | 1.6 A |
| $I^2t$ | 0.038 $A^2 \cdot s$ |
| **Power loss** | |
| Power loss, typ. | 1.5 W |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 32 byte; per input / output |
| Address space per station | |
| ● Address space per station, max. | 244 byte; per input / output |
| **Hardware configuration** | |
| Rack | |
| ● Quantity of operable ET 200SP modules, max. | 32 |
| ● Quantity of operable ET 200AL modules, max. | 16 |
| **Interfaces** | |
| Number of PROFIBUS interfaces | 1 |
| **1. Interface** | |


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| | |
|---|---|
| Interface types | |
| ● RS 485 | Yes; 1 integrated RS 485 socket |
| ● Output current of the interface, max. | 90 mA |
| Protocols | |
| ● PROFIBUS DP device | Yes |
| **Interface types** | |
| RS 485 | |
| ● Transmission rate, max. | 12 Mbit/s |
| **Protocols** | |
| Supports protocol for PROFINET IO | No |
| PROFIsafe | Yes |
| PROFIBUS | Yes |
| EtherNet/IP | No |
| Modbus TCP | No |
| Open IE communication | |
| ● TCP/IP | No |
| PROFIBUS DP | |
| Services | |
| — SYNC capability | Yes |
| — FREEZE capability | Yes |
| — DPV0 | Yes |
| — DPV1 | Yes |
| **Interrupts/diagnostics/status information** | |
| Status indicator | Yes |
| Alarms | Yes |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| ● RUN LED | Yes; green LED |
| ● ERROR LED | Yes; red LED |
| ● MAINT LED | Yes; Yellow LED |
| ● Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |
| ● Connection display DP | Yes; green DP LED |
| **Potential separation** | |
| between backplane bus and electronics | No |
| between PROFIBUS DP and all other circuit components | Yes |
| between supply and all other circuits | No |
| **Permissible potential difference** | |
| between different circuits | Safety extra low voltage SELV |
| **Isolation** | |
| Isolation tested with | 707 V DC (type test) |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● horizontal installation, min. | -40 °C; = Tmin (incl. condensation/frost) |
| ● horizontal installation, max. | 70 °C; = Tmax |
| ● vertical installation, min. | -40 °C; = Tmin (incl. condensation/frost) |
| ● vertical installation, max. | 50 °C; = Tmax |
| 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 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); |


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|---|---|
| 60721-3-3 | 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, * |
| — Against mechanical environmental conditions acc. to EN 60721-3-3 | Yes; Class 3M8 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) |
| Use on ships/at sea | |
| — to biologically active substances according to EN 60721-3-6 | Yes; Class 6B2 mold, fungal and dry rot spores (excluding fauna) |
| — 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; * |
| — Against mechanical environmental conditions acc. to EN 60721-3-6 | Yes; Class 6M4 using the SIPLUS Mounting Kit ET 200SP (6AG1193-6AA00-0AA0) |
| 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 |
| **Connection method** | |
| ET-Connection | |
| ● via BU/BA Send | Yes; + 16 ET 200AL modules |
| **Dimensions** | |
| Width | 50 mm |
| Height | 117 mm |
| Depth | 74 mm |
| **Weights** | |
| Weight, approx. | 150 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-08 |
| eClass | 14 | 27-24-26-08 |
| eClass | 12 | 27-24-26-08 |
| eClass | 9.1 | 27-24-26-08 |
| eClass | 9 | 27-24-26-08 |
| eClass | 8 | 27-24-26-08 |
| eClass | 7.1 | 27-24-26-08 |
| eClass | 6 | 27-24-26-08 |
| ETIM | 10 | EC001604 |
| ETIM | 9 | EC001604 |
| ETIM | 8 | EC001604 |
| ETIM | 7 | EC001604 |
| IDEA | 4 | 3564 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**


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| General Product Approval | | | | | For use in hazardous locations |
|---|---|---|---|---|---|
| Manufacturer Declaration | EAC | CE EG-Konf. | UKCA | China RoHS | IECEx |

| For use in hazardous locations | | | Maritime application | |
|---|---|---|---|---|
| ATEX | CCC-Ex | CCC-Ex | ABS | DNV |

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