SIEMENS

## Data sheet 6AG1332-5HF00-2AB0



Figure similar

***spare part*** SIPLUS S7-300 SM 332 40-pole based on 6ES7332-5HF00-0AB0 with conformal coating, -25…+70 °C, analog output isolated, 8 AO, U/I; diagnostics; resolution 11/12 bits, 40-pole, removing and inserting with active backplane bus possible

| | |
|---|---|
| **General information** | |
| based on | 6ES7332-5HF00-0AB0 |
| Product function | |
| ● Isochronous mode | No |
| **Supply voltage** | |
| Load voltage L+ | |
| ● Rated value (DC) | 24 V |
| ● Reverse polarity protection | Yes |
| **Input current** | |
| from load voltage L+ (without load), max. | 340 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| **Power loss** | |
| Power loss, typ. | 6 W |
| **Analog outputs** | |
| Number of analog outputs | 8; 4 @ +70 °C |
| Voltage output, short-circuit protection | Yes |
| Voltage output, short-circuit current, max. | 25 mA |
| Current output, no-load voltage, max. | 18 V |
| Output ranges, voltage | |
| ● 0 to 10 V | Yes |
| ● 1 V to 5 V | Yes |
| ● -10 V to +10 V | Yes |
| Output ranges, current | |
| ● 0 to 20 mA | Yes |
| ● -20 mA to +20 mA | Yes |
| ● 4 mA to 20 mA | Yes |
| Connection of actuators | |
| ● for voltage output four-wire connection | Yes |
| ● for current output two-wire connection | Yes |
| Load impedance (in rated range of output) | |
| ● with voltage outputs, min. | 1 kΩ |
| ● with voltage outputs, capacitive load, max. | 1 µF |
| ● with current outputs, max. | 500 Ω |
| ● with current outputs, inductive load, max. | 10 mH |
| Cable length | |
| ● shielded, max. | 200 m |
| **Analog value generation for the outputs** | |
| Integration and conversion time/resolution per channel | |


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| ● Resolution with overrange (bit including sign), max. | 12 bit; ±10 V, ±20 mA, 4 mA to 20 mA, 1 V to 5 V: 11 bit + sign; 0 V to 10 V, 0 mA to 20 mA: 12 bit |
| ● Conversion time (per channel) | 0.8 ms |
| Settling time | |
| ● for resistive load | 0.2 ms |
| ● for capacitive load | 3.3 ms |
| ● for inductive load | 0.5 ms; 0.5 ms (1 mH); 3.3 ms (10 mH) |
| **Errors/accuracies** | |
| Operational error limit in overall temperature range | |
| ● Voltage, relative to output range, (+/-) | 0.5 %; ±0.6 % @ < 0 °C or > 60 °C |
| ● Current, relative to output range, (+/-) | 0.6 %; ±0.7 % @ < 0 °C or > 60 °C |
| Basic error limit (operational limit at 25 °C) | |
| ● Voltage, relative to output range, (+/-) | 0.4 % |
| ● Current, relative to output range, (+/-) | 0.5 % |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | Yes; Parameterizable |
| Substitute values connectable | Yes; Parameterizable |
| Alarms | |
| ● Diagnostic alarm | Yes; Parameterizable |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| **Potential separation** | |
| Potential separation analog outputs | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| ● Between the channels and load voltage L+ | Yes |
| ● between the channels and the power supply of the electronics | Yes |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes; File E239877 |
| RCM (formerly C-TICK) | Yes |
| KC approval | Yes |
| EAC (formerly Gost-R) | Yes |
| Railway application | |
| ● EN 50121-4 | No |
| ● EN 50155 | No |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | -25 °C |
| ● max. | 70 °C; = Tmax; 60 °C @ UL/cUL, ATEX and FM use |
| Ambient temperature during storage/transportation | |
| ● min. | -40 °C |
| ● max. | 70 °C |
| 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 under condensation conditions) |
| Resistance | |
| 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 |


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| — 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! |
| **Connection method** | |
| required front connector | 40-pin |
| **Dimensions** | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| **Weights** | |
| Weight, approx. | 272 g |

**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 |
| 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**

EG-Konf. | Manufacturer Declaration | UKCA | China RoHS | UL | EAC

**EMV** | **For use in hazardous locations**

RCM | IECEx | ATEX | CCC-Ex


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