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## Data sheet 6AG1138-4DF11-7AB0

SIPLUS ET 200S EM 1SI RS232/ 422 -25...+70°C with conformal coating based on 6ES7138-4DF11-0AB0 . serial interface 1-channel, 15 mm width, RS232/422, 485 MODBUS/USS



Figure similar

| | |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| Reverse polarity protection | Yes |
| **Input current** | |
| from supply voltage L+, max. | 80 mA; Typ. 20 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Power loss** | |
| Power loss, typ. | 1.2 W |
| **Memory** | |
| Standard blocks | 11 100 byte; Modbus: S_SEND 2700, S_RCV 2400, S_MODB 6000; USI: S_SEND 2700, S_RCV 2400, S_USST 1900, S_USSR 2600, S_USSI 1500 |
| **Interfaces** | |
| Number of interfaces | 1 |
| Point-to-point connection | |


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| | |
|---|---|
| • Transmission rate, max. | 115.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps |
| Integrated protocol driver | |
| — Modbus | Yes |
| — USS | Yes |
| Signals | |
| — RS 232C | RS 232C signals: 8 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, PE) |
| — RS 422 | TxD(A), RxD(A), TxD(B), RxD(B), GND |
| — RS 485 | R/T(A), R/T(B), GND |
| Character frame (adjustable) | |
| — Bits per character | 8 |
| — Number of start/stop bits | 1 or 2 (USS only 1) |
| — Bits per character frame | 10 or 11 (USS only 11 bit) |
| — Parity | none, odd, even (USI even only) |
| Data quantity per PLC sampling cycle | |
| — Send | 32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes |
| — Receive | 32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes |
| **Interface types** | |
| RS 232 | |
| • Cable length, max. | 15 m |
| RS 485 | |
| • Cable length, max. | 1 200 m |
| **Interrupts/diagnostics/status information** | |
| Diagnostics indication LED | |
| • Receive RxD | Yes |
| • Transmit TxD | Yes |
| • Group error SF (red) | Yes |
| **Potential separation** | |
| Potential separation interface | |
| • Between RS 422/485 and internal power supply | Yes |
| • between RS 232 and internal power supply | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| • min. | -25 °C; = Tmin |
| • max. | 70 °C; = Tmax |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 5 000 m |


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| | |
|---|---|
| • 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 permitted (no commissioning in bedewed state) |
| 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 |
| — 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! |

| Dimensions | |
|---|---|
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |

| Weights | |
|---|---|
| Weight, approx. | 50 g |

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