SIEMENS

Data sheet

6AG1223-1BH32-4XB0

SIPLUS S7-1200 SM1223 8DI/8DQ FOR MEDIAL STRESS WITH CONFORMAL COATING BASED ON 6ES7223-1BH32-0XB0 . DIGITAL I/O 8DI / 8DQ, 8DI DC 24 V, SINK/SOURCE, 8DQ, TRANSISTOR 0.5A



Figure similar

| Supply voltage | |
|---|-------------------|
| Rated value (DC) | |
| • 24 V DC | Yes |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| Input current | |
| from backplane bus 5 V DC, max. | 145 mA |
| Digital inputs | |
| from load voltage L+ (without load), max. | 4 mA; per channel |
| Output voltage | |
| Power supply to the transmitters | |
| • present | Yes |
| Power loss | |
| Power loss, typ. | 2.5 W |
| Digital inputs | |
| Number of digital inputs | 8 |

| • in groups of | 2 |
|--|---|
| Input characteristic curve in accordance with IEC | Yes |
| 61131, type 1 | |
| Number of simultaneously controllable inputs | |
| all mounting positions | |
| — up to 40 °C, max. | 8 |
| horizontal installation | |
| — up to 40 °C, max. | 8 |
| — up to 50 °C, max. | 8 |
| vertical installation | |
| — up to 40 °C, max. | 8 |
| Input voltage | |
| • Type of input voltage | DC |
| • Rated value (DC) | 24 V |
| ● for signal "0" | 5 V DC at 1 mA |
| ● for signal "1" | 15 V DC at 2.5 mA |
| Input current | |
| for signal "0", max. (permissible quiescent current) | 1 mA |
| ● for signal "1", min. | 2.5 mA |
| ● for signal "1", typ. | 4 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | Yes; 0.2 ms, 0.4 ms, 0.8 ms, 1.6 ms, 3.2 ms, 6.4 ms and 12.8 ms, selectable in groups of four |
| for interrupt inputs | |
| — parameterizable | Yes |
| Cable length | |
| • shielded, max. | 500 m |
| • unshielded, max. | 300 m |
| | |
| Digital outputs | 8 |
| Number of digital outputs | o 1 |
| in groups of Short-circuit protection | No; to be provided externally |
| Limitation of inductive shutdown voltage to | L+ (-48 V) |
| Switching capacity of the outputs | |
| with resistive load, max. | 0.5 A |
| | 5 W |
| on lamp load, max. Output voltage | |
| Rated value (DC) | |
| | 24 \/ |
| | 24 V |
| Fated value (DC) for signal "0", max. for signal "1", min. | 24 V 0.1 V; with 10 kOhm load 20 V DC |

| Output current | |
|---|-----------------------|
| for signal "1" permissible range, max. | 0.5 A |
| for signal "0" residual current, max. | 10 µA |
| Output delay with resistive load | |
| ● "0" to "1", max. | 50 μs |
| • "1" to "0", max. | 200 µs |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 50 °C, max. | 4 A; Current per mass |
| Relay outputs | |
| Switching capacity of contacts | |
| — with inductive load, max. | 0.5 A |
| — on lamp load, max. | 5 W |
| — with resistive load, max. | 0.5 A |
| Cable length | |
| • shielded, max. | 500 m |
| • unshielded, max. | 150 m |
| Interrupts/diagnostics/status information | |
| Alarms | Yes |
| Diagnostic functions | Yes |
| Alarms | |
| ● Diagnostic alarm | Yes |
| Diagnostic messages | |
| Monitoring the supply voltage | Yes |
| Diagnostics indication LED | |
| for status of the inputs | Yes |
| for status of the outputs | Yes |
| • for maintenance | Yes |
| Status indicator digital output (green) | Yes |
| Status indicator digital input (green) | Yes |
| Potential separation | |
| Potential separation digital inputs | |
| between the channels, in groups of | 2 |
| Potential separation digital outputs | |
| between the channels, in groups of | 1 |
| between the channels and backplane bus | 500 V AC |
| Degree and class of protection | |
| Degree of protection acc. to EN 60529 | |
| • IP20 | Yes |
| Standards, approvals, certificates | |
| | |

| CE mark | CE | mark |
|---------|----|------|
|---------|----|------|

| CE mark | Yes |
|--|--|
| Ambient conditions | |
| Free fall | |
| • Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | -20 °C; = Tmin; Startup @ 0 °C |
| • max. | 60 °C; = Tmax |
| Ambient temperature during storage/transportation | |
| ● min. | -40 °C |
| • max. | 70 °C |
| Extended ambient conditions | |
| relative to ambient temperature-atmospheric pressure-installation altitude | Tmin Tmax at 1080 hPa 795 hPa (-1000 m +2000 m) // Tmin (Tmax - 10K) at 795 hPa 658 hPa (+2000 m +3500 m) // Tmin (Tmax - 20K) at 658 hPa 540 hPa (+3500 m +5000 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 | |
| against biologically active substances / conformity with EN 60721-3-3 | Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation! |
| against chemically active substances / conformity with EN 60721-3-3 | Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation! |
| against mechanically active substances / conformity with EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation! |
| Connection method | |
| required front connector | Yes |
| Mechanics/material | |
| Enclosure material (front) | |
| Plastic | Yes |
| Dimensions | |
| Width | 45 mm |
| Height | 100 mm |
| Depth | 75 mm |
| Weights | |
| Weight, approx. | 210 g |
| last modified: | 22.06.2016 |