SIEMENS

## Data sheet 6AG1964-2AA04-7AB0



Figure similar

SIPLUS S7-400 IF 964-DP based on 6ES7964-2AA04-0AB0 with conformal coating, -25…+70 °C, interface module DP master

| | |
|---|---|
| **General information** | |
| based on | 6ES7964-2AA04-0AB0 |
| **Input current** | |
| Current consumption, max. | 150 mA; Current consumption from S7-400 bus: The module uses no current at 24 V, it provides this voltage only at the DP interface. Total current consumption of the components connected to the DP interface, but maximum 150 mA. Current carrying capacity of the isolated 5 V (P5ext) maximum 90 mA, current carrying capacity of the 24 V maximum 150 mA. |
| **Power loss** | |
| Power loss, typ. | 1 W |
| **Interfaces** | |
| PROFIBUS DP | |
| ● Cable length, max. | 1 200 m; At 9.6 kbit/s: max. 1 200 m; at 12 Mbit/s: max. 100 m |
| **1. Interface** | |
| Isolated | Yes |
| Protocols | |
| ● PROFIBUS DP master | Yes; Default setting |
| ● PROFIBUS DP device | Yes |
| PROFIBUS DP master | |
| ● Transmission rate, max. | 12 Mbit/s |
| ● max. number of DP devices | 125; depending on the CPU used |
| Services | |
| — PG/OP communication | Yes |
| — Equidistance | Yes |
| — SYNC/FREEZE | Yes |
| — Direct data exchange (slave-to-slave communication) | Yes |
| Address area | |
| — Inputs, max. | device-dependent |
| — Outputs, max. | device-dependent |
| User data per DP device | |
| — Inputs, max. | 244 byte |
| — Outputs, max. | 244 byte |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | -25 °C; = Tmin |
| ● max. | 70 °C; = Tmax; @ 60°C for UL/ATEX/FM use |
| Altitude during operation relating to sea level | |
| ● Installation altitude above sea level, max. | 5 000 m |


© Copyright Siemes

| | |
|---|---|
| ● 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! |
| 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 | 26 mm |
| Height | 54 mm |
| Depth | 130 mm |
| **Weights** | |
| Weight, approx. | 65 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-08 |
| eClass | 14 | 27-24-22-08 |
| eClass | 12 | 27-24-22-08 |
| eClass | 9.1 | 27-24-22-08 |
| eClass | 9 | 27-24-22-08 |
| eClass | 8 | 27-24-22-08 |
| eClass | 7.1 | 27-24-22-08 |
| eClass | 6 | 27-24-22-08 |
| ETIM | 10 | EC001423 |
| ETIM | 9 | EC001423 |
| ETIM | 8 | EC001423 |
| ETIM | 7 | EC001423 |
| IDEA | 4 | 3564 |
| UNSPSC | 15 | 32-15-17-05 |


© Copyright Siemes

## Approvals / Certificates

### General Product Approval

| | | | | | |
|---|---|---|---|---|---|
|  | Manufacturer Declaration |  | China RoHS |  | China RoHS |

| General Product Approval | EMV | For use in hazardous locations | | |
|---|---|---|---|---|
|  |  |  | CCC-Ex |  |  |

**last modified:** 5/29/2024


© Copyright Siemes