SIEMENS

## Data sheet 6AG1153-4BA00-7XB0




Figure similar

***spare part*** SIPLUS ET 200M IM153-4 PN IO HF based on 6ES7153-4BA00-0XB0 with conformal coating, -40…+70 °C, start up -25 °C, DP, connection ET 200M for max. 12 S7-300 modules, supports fail-safe modules, HART modules, shared device, medium redundancy protocol

| | |
|---|---|
| **General information** | |
| Product type designation | IM 153-4 PN HF |
| Vendor identification (VendorID) | 002AH |
| Device identifier (DeviceID) | 0302H |
| based on | 6ES7153-4BA00-0XB0 |
| Engineering with | |
| ● STEP 7 configurable/integrated from version | see entry ID: 109746275 |
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 20.4 V |
| permissible range, upper limit (DC) | 28.8 V |
| external protection for power supply lines (recommendation) | In a construction with grounded reference potential, a fuse is necessary for redundant interface modules (Recommendation: 2.5 A) |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 5 ms |
| **Input current** | |
| Current consumption, max. | 600 mA; with 24 V DC supply |
| Inrush current, typ. | 4 A |
| $I^2t$ | 0.09 $A^2 \cdot s$ |
| **Output voltage** | |
| Rated value (DC) | 5 V |
| **Output current** | |
| for backplane bus (5 V DC), max. | 1.5 A |
| **Power loss** | |
| Power loss, typ. | 6 W |
| **Address area** | |
| Address space per module | |
| ● Inputs | 672 byte; Extended HART user data |
| ● Outputs | 192 byte |
| **Hardware configuration** | |
| number of modules per DP device interface, max. | 12 |
| **1. Interface** | |
| PROFINET IO Device | |
| Services | |
| — IRT | Yes |
| — PROFIenergy | No |
| — Prioritized startup | Yes |
| — Shared device | Yes |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| — Number of IO Controllers with shared device, max. | 2 |
| **Protocols** | |
| Bus protocol/transmission protocol | PROFINET IO |
| Protocols (Ethernet) | |
| ● TCP/IP | Yes |
| ● SNMP | Yes |
| ● LLDP | Yes |
| ● ping | Yes |
| ● ARP | Yes |
| Redundancy mode | |
| ● PROFINET system redundancy (S2) | Yes |
| Media redundancy | |
| — MRP | Yes |
| **Interrupts/diagnostics/status information** | |
| Diagnostics indication LED | |
| ● LINK LED | Yes; green LED |
| ● RX/TX LED | Yes; Yellow LED |
| ● for module diagnostics | Yes |
| **Potential separation** | |
| Potential separation exists | Yes; Only direction PROFINET, RWB is not separated |
| **Isolation** | |
| Isolation tested with | Between PROFINET and 24 V supply: 1 500 V AC, between functional grounding and 24 V supply: 500 V DC |
| **Degree and class of protection** | |
| IP degree of protection | IP20 |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | -40 °C; = Tmin; Startup @ -25 °C |
| ● max. | 70 °C; = Tmax; Tmax > 60 °C output current for backplane bus (5 V DC) max. 0.9 A |
| ● At cold restart, min. | -25 °C |
| 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 |
| — 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) |


Subject to change without notice
© Copyright Siemens

| | |
|---|---|
| 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 | 40 mm |
| Height | 125 mm |
| Depth | 118 mm |

## Weights

| | |
|---|---|
| Weight, approx. | 215 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

### General Product Approval

Manufacturer Declaration

China RoHS

### General Product Approval | EMV | For use in hazardous locations

### For use in hazardous locations

CCC-Ex

**last modified:** 9/11/2026


Subject to change without notice
© Copyright Siemens