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## Data sheet 6ES7151-3BA23-0AB0

Siemens EcoTech




Figure similar

*** Spare part *** SIMATIC DP, Interface module IM 151-3 PN HF for ET 200S Transmission rate 100 Mbit/s max. 63 I/O modules up to 2 m width can be connected; 2x bus connections via RJ45 incl. termination module

| | |
|---|---|
| **General information** | |
| Product type designation | IM 151-3 PN HF |
| **Configuration control** | |
| via dataset | Yes |
| **Supply voltage** | |
| Mains buffering | |
| ● Mains/voltage failure stored energy time | 20 ms |
| **Input current** | |
| from supply voltage 1L+, max. | 200 mA |
| **Power loss** | |
| Power loss, typ. | 3.3 W |
| **Address area** | |
| Addressing volume | |
| ● Inputs | 256 byte |
| ● Outputs | 256 byte |
| **Interfaces** | |
| Transmission rate, max. | 100 Mbit/s |
| **1. Interface** | |
| Autonegotiation | Yes |
| Autocrossing | Yes |
| Interface types | |
| ● RJ 45 (Ethernet) | Yes |
| ● Number of ports | 2 |
| PROFINET IO Device | |
| Services | |
| — IRT | Yes |
| — PROFIenergy | Yes |
| — Prioritized startup | Yes |
| — Shared device | Yes |
| — Number of IO Controllers with shared device, max. | 2 |
| **Protocols** | |
| Supports protocol for PROFINET IO | Yes |
| Protocols (Ethernet) | |
| ● SNMP | Yes |
| ● LLDP | Yes |


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| | |
|---|---|
| ● ping | Yes |
| ● ARP | Yes |
| Redundancy mode | |
| Media redundancy | |
| — MRP | Yes |
| **Interrupts/diagnostics/status information** | |
| Alarms | Yes |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| ● LINK LED | Yes |
| ● Bus fault BF (red) | Yes |
| ● Group error SF (red) | Yes |
| ● Monitoring 24 V voltage supply ON (green) | Yes |
| **Potential separation** | |
| between backplane bus and electronics | No |
| between supply voltage and electronics | No |
| between Ethernet and electronics | Yes |
| **Isolation** | |
| Isolation tested with | 500 V |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 60 °C |
| **Dimensions** | |
| Width | 60 mm |
| Height | 119.5 mm |
| Depth | 75 mm; with mounting rail |
| **Weights** | |
| Weight, approx. | 150 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**

Miscellaneous | Manufacturer Declaration


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| General Product Approval | | | | | EMV |
|---|---|---|---|---|---|
| EAC | CE EG-Konf. | UKCA | China RoHS | Manufacturer Declaration | RCM |

| For use in hazardous locations | | | | | |
|---|---|---|---|---|---|
| ATEX | FM | ATEX | UL | ATEX | IECEx |

| For use in hazardous locations | | Maritime application | | | |
|---|---|---|---|---|---|
| Miscellaneous | CCC-Ex | ABS | BUREAU VERITAS | DNV | LRS |

| Maritime application | | | Industrial Communication |
|---|---|---|---|
| NK / Nippon Kaiji Kyokai | RINA | CCS (China Classification Society) | PROFINET |

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