SIEMENS

## Data sheet 6ES7151-1BA02-0AB0



Figure similar

*** Spare part *** SIMATIC DP, Interface module IM151-1 High Feature f. ET200S; Transmission rate to 12 Mbit/s; data volume 244 bytes each for I/O max. 63 modules can be connected; isochronous mode Bus connection via 9-pin D-sub incl. termination module

| | |
|---|---|
| **General information** | |
| Product type designation | IM 151-1 HF |
| Product function | |
| ● Isochronous mode | 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 | 244 byte |
| ● Outputs | 244 byte |
| **Interfaces** | |
| Transmission procedure | RS 485 |
| Transmission rate, max. | 12 Mbit/s |
| **Protocols** | |
| Supports protocol for PROFINET IO | No |
| PROFIBUS DP | Yes |
| PROFIBUS DP | |
| Services | |
| — SYNC capability | Yes |
| — FREEZE capability | Yes |
| — Direct data exchange (slave-to-slave communication) | Yes |
| **Interrupts/diagnostics/status information** | |
| Alarms | Yes |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| ● 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 electronic block and PROFIBUS DP | Yes |
| between supply voltage and electronics | No |


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| | |
|---|---|
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Standards, approvals, certificates** | |
| CE mark | Yes |
| UL approval | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 60 °C |
| **Dimensions** | |
| Width | 45 mm |
| Height | 119.5 mm |
| Depth | 75 mm |
| **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 | UL | RCM | EAC | China RoHS

**EMV**

RCM

**For use in hazardous locations**

ATEX | FM | ATEX | UL | ATEX

**For use in hazardous locations**

IECEx | Miscellaneous | CCC-Ex

**Maritime application**

ABS | BUREAU VERITAS | DNV

**Maritime application**


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CCS (China Classification Society)

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