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## Data sheet 6ES7151-1AA06-0AB0



Figure similar

*** spare part *** SIMATIC DP, interface module IM 151-1 Standard for ET 200S; incl. termination module data volume of 244 bytes each for inputs and outputs; max. 63 I/O modules PROFIBUS DP V0 and V1 up to 2 m width can be connected; bus connection via 9-pin D-sub

| | |
|---|---|
| **General information** | |
| Product type designation | IM 151-1 ST |
| Vendor identification (VendorID) | 806Ah |
| Product function | |
| ● Isochronous mode | No |
| **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** | |
| Address space per module | |
| ● Inputs | 244 byte |
| ● Outputs | 244 byte |
| **Interfaces** | |
| Transmission procedure | RS 485 |
| Transmission rate, max. | 12 Mbit/s; 9,6 / 19,2 / 45,45 / 93,75 / 187,5 / 500 kbit/s; 1,5 / 3 / 6 / 12 Mbit/s |
| PROFIBUS DP | |
| ● Cable length, max. | 1 200 m |
| **1. Interface** | |
| Interface types | |
| ● RS 485 | Yes |
| ● Output current of the interface, max. | 80 mA |
| ● Design of the connection | 9-pin sub D socket |
| **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 |


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| | |
|---|---|
| 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 |
| **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 | For use in hazardous locations | Maritime application |
|---|---|---|

RCM | IECEx | ABS | BUREAU VERITAS | DNV | LRS

| Maritime application | other |
|---|---|


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NK / Nippon Kaiji Kyokai




CCS (China Classification Society)

KR (Korean Register of Shipping)




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