SIEMENS

## Data sheet 6ES7138-4DF01-0AB0



Figure similar

*** Spare part *** SIMATIC DP, Electronics module for ET 200S, 1 SI serial interface 1-channel, 15 mm width, RS232/422, 485 ASCII, 3964R

| | |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| Reverse polarity protection | Yes |
| **Input current** | |
| from supply voltage L+, max. | 120 mA |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Power loss** | |
| Power loss, typ. | 1.2 W |
| **Storage** | |
| Standard blocks | 5 100 byte; S_SEND 2700, S_RCV 2400, S_XON 2600, S_RTS 2600, S_V24 2700, S_VSTAT 1800, S_VSET 1800 |
| **Interfaces** | |
| Number of interfaces | 1 |
| Point-to-point connection | |
| Integrated protocol driver | |
| — 3964 (R) | Yes |
| — ASCII | Yes |
| Telegram length, max. | |
| — 3964 (R) | 224 byte |
| — ASCII | 224 byte |
| Transmission rate, RS 422/485 | |
| — with 3964 (R) protocol, max. | 115.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps |
| — with ASCII protocol, max. | 115.2 kbit/s; Full duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps |
| Transmission speed, RS 232 | |
| — with 3964 (R) protocol, max. | 115.2 kbit/s; half duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps |
| — with ASCII protocol, max. | 115.2 kbit/s; Full duplex: 110, 300, 600, 1 200, 2 400, 4 800, 9 600, 19 200, 38 400, 57 600, 76 800, 115 200 bps |
| Signals | |
| — RS 232C | RS 232C signals: 8 (TxD, RxD, RTS, CTS, DTR, DSR, DCD, PE) |
| — RS 422 | TxD(A), RxD(A), TxD(B), RxD(B), GND |
| — RS 485 | R/T(A), R/T(B), GND |
| Character frame (adjustable) | |
| — Bits per character | 7 or 8 |
| — Number of start/stop bits | 1 or 2 |
| — Bits per character frame | 10 |
| — Parity | none, odd, even, any |


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| | |
|---|---|
| Data quantity per PLC sampling cycle | |
| — Send | 32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes |
| — Receive | 32 byte; With IM151-1 Standard as of 6ES7151-1AA04-0AB0; with IM151-1 High Feature as of 6ES7151-1BA01-0AB0; otherwise 8 bytes |
| **Interface types** | |
| RS 232 | |
| ● Cable length, max. | 15 m |
| RS 485 | |
| ● Cable length, max. | 1 200 m |
| **Interrupts/diagnostics/status information** | |
| Diagnostics indication LED | |
| ● Receive RxD | Yes |
| ● Transmit TxD | Yes |
| ● Group error SF (red) | Yes |
| **Potential separation** | |
| Potential separation interface | |
| ● Between RS 422/485 and internal power supply | Yes |
| ● between RS 232 and internal power supply | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● min. | 0 °C |
| ● max. | 60 °C |
| **Dimensions** | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| **Weights** | |
| Weight, approx. | 50 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

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


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## For use in hazardous locations

Miscellaneous

CCC-Ex

## Maritime application

NK / Nippon Kaiji Kyokai

## Maritime application

CCS (China Classification Society)

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