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## Data sheet 6ES7141-4BF00-0AA0



SIMATIC DP, electronic module for ET 200pro 8 DI 24 V DC, Module diagnostics; incl. bus module, connection module IO 6ES7194-4..00-0AA0 to be ordered separately

| | |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| Reverse polarity protection | Yes; Against destruction; encoder power supply outputs applied with reversed polarity |
| **Input current** | |
| from supply voltage 1L+, max. | 20 mA |
| from backplane bus 3.3 V DC, max. | 20 mA |
| **Encoder supply** | |
| Number of outputs | 8 |
| Short-circuit protection | Yes; per module, electronic |
| Output current | |
| ● up to 55 °C, max. | 1 A |
| **Power loss** | |
| Power loss, typ. | 2.5 W |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 1 byte |
| **Digital inputs** | |
| Number of digital inputs | 8 |
| Sourcing/sinking input | P-reading |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes |
| Input characteristic curve in accordance with IEC 61131, type 2 | No |
| Number of simultaneously controllable inputs | |
| all mounting positions | |
| — up to 55 °C, max. | 8 |
| Input voltage | |
| ● Rated value (DC) | 24 V |
| ● for signal "0" | -3 to +5V |
| ● for signal "1" | 13 to 30V |
| Input current | |
| ● for signal "1", typ. | 7 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | No |
| — at "0" to "1", min. | 1.2 ms |
| — at "0" to "1", max. | 4.8 ms |
| — at "1" to "0", min. | 1.2 ms |
| — at "1" to "0", max. | 4.8 ms |
| Cable length | |


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| | |
|---|---|
| ● unshielded, max. | 30 m |
| **Encoder** | |
| Connectable encoders | |
| ● 2-wire sensor | Yes |
| — permissible quiescent current (2-wire sensor), max. | 1.5 mA |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | Yes |
| Alarms | |
| ● Diagnostic alarm | Yes |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| ● Short-circuit | Yes; Sensor supply to M; module by module |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Status indicator digital input (green) | Yes; Per channel |
| **Potential separation** | |
| between backplane bus and all other circuit components | Yes |
| Potential separation digital inputs | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| **Isolation** | |
| Isolation tested with | 707 V DC (type test) |
| **Dimensions** | |
| Width | 45 mm |
| Height | 130 mm |
| Depth | 35 mm |
| **Weights** | |
| Weight, approx. | 140 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-04 |
| eClass | 14 | 27-24-26-04 |
| eClass | 12 | 27-24-26-04 |
| eClass | 9.1 | 27-24-26-04 |
| eClass | 9 | 27-24-26-04 |
| eClass | 8 | 27-24-26-04 |
| eClass | 7.1 | 27-24-26-04 |
| eClass | 6 | 27-24-26-04 |
| ETIM | 10 | EC001599 |
| ETIM | 9 | EC001599 |
| ETIM | 8 | EC001599 |
| ETIM | 7 | EC001599 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**

Miscellaneous | Manufacturer Declaration










| General Product Approval | Maritime application |
|---|---|


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## Maritime application

NK / Nippon Kaiji Kyokai

CCS (China Classification Society)

## Maritime application

KR (Korean Register of Shipping)

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