SIEMENS

## Data sheet 6ES7143-4BF00-0AA0

| | SIMATIC DP, Electronic modules for ET 200 PRO 4 DIO/4 DO 24 V DC, 0.5A Module diagnostics; incl. bus module, Connection module IO 6ES7194-4CB50-0AA0 order separately |
|---|---|
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| Reverse polarity protection | Yes; Against destruction; encoder power supply outputs applied with reversed polarity |
| Load voltage 2L+ | |
| ● Rated value (DC) | 24 V |
| ● Short-circuit protection | Yes |
| ● Reverse polarity protection | Yes; against destruction; load increasing |
| **Input current** | |
| from supply voltage 1L+, max. | 20 mA |
| from load voltage 2L+ (without load), max. | 20 mA |
| from backplane bus 3.3 V DC, max. | 30 mA |
| **Encoder supply** | |
| Short-circuit protection | Yes; per module, electronic |
| Output current | |
| ● up to 55 °C, max. | 1 A |
| **Power loss** | |
| Power loss, typ. | 3 W |
| **Digital inputs** | |
| Number of digital inputs | 4; 4 DIOs can be parameterized |
| Sourcing/sinking input | P-reading |
| Input characteristic curve in accordance with IEC 61131, type 3 | Yes |
| Number of simultaneously controllable inputs | |
| all mounting positions | |
| — up to 55 °C, max. | 4 |
| Input voltage | |
| ● Rated value (DC) | 24 V |
| ● for signal "0" | -3 to +5V |
| ● for signal "1" | +11 to +30V |
| Input current | |
| ● for signal "1", typ. | 7 mA |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — 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 | |
| ● unshielded, max. | 30 m |
| **Digital outputs** | |
| Number of digital outputs | 8; 4 DO fixed, 4 DIO parameterizable |
| ● in groups of | 4; 2 load groups for 4 outputs each |
| Current-sourcing | Yes |
| output type acc. to IEC 61131, type 0.5 | Yes |
| Short-circuit protection | Yes; per channel, electronic |
| ● Response threshold, typ. | 0.7 A |
| Limitation of inductive shutdown voltage to | Typ. (L1+, L2+) -47 V |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |


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| | |
|---|---|
| ● on lamp load, max. | 5 W |
| Load resistance range | |
| ● lower limit | 48 Ω |
| ● upper limit | 4 kΩ |
| Output voltage | |
| ● for signal "1", min. | 2L+ (-0,8 V) |
| Output current | |
| ● for signal "1" rated value | 0.5 A |
| ● for signal "0" residual current, max. | 0.5 mA |
| Parallel switching of two outputs | |
| ● for uprating | No |
| ● for redundant control of a load | Yes |
| Switching frequency | |
| ● with resistive load, max. | 100 Hz |
| ● with inductive load, max. | 0.5 Hz |
| ● on lamp load, max. | 1 Hz |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 55 °C, max. | 2 A |
| Cable length | |
| ● 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; Short-circuit of outputs to ground; module by module |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Status indicator digital input (green) | Yes |
| ● Status indicator digital output (green) | Yes |
| **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 |
| Potential separation digital outputs | |
| ● between the channels and backplane bus | Yes |
| **Isolation** | |
| Isolation tested with | 707 V DC (type test) |
| **Standards, approvals, certificates** | |
| Suitable for safety-related tripping of standard modules | Yes |
| Highest safety class achievable for safety-related tripping of standard modules | |
| ● Performance level according to ISO 13849-1 | PL d |
| ● Category according to ISO 13849-1 | Cat. 3 |
| ● SIL acc. to IEC 62061 | SIL 2 |
| ● remark on safety-oriented shutdown | https://www.plcally.com/?s=6ES7143-4BF00-0AA0 |
| **Dimensions** | |
| Width | 45 mm |
| Height | 130 mm |
| Depth | 35 mm |
| **Weights** | |
| Weight, approx. | 140 g |


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## 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

China RoHS

### Maritime application

### Maritime application

NK / Nippon Kaiji Kyokai

CCS (China Classification Society)

### Maritime application

KR (Korean Register of Shipping)

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