SIEMENS

## Data sheet 6ES7143-3BH10-0XA0



SIMATIC DP, Basic module BM 143 ET 200ECO: 8 DI/8 DO, 1.3A, 8xM12, Duplicate assignment, IP65/67, Connection block 6ES7194-3AA00-0.A0 order separately

| | |
|---|---|
| **General information** | |
| Vendor identification (VendorID) | 80FCh |
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| Reverse polarity protection | Yes |
| Load voltage 2L+ | |
| ● Rated value (DC) | 24 V |
| ● Reverse polarity protection | Yes |
| **Input current** | |
| from supply voltage 1L+, max. | 70 mA; Typical |
| from load voltage 2L+ (without load), max. | 60 mA; Typical |
| **Encoder supply** | |
| Number of outputs | 8 |
| Short-circuit protection | Yes; Electronic |
| Output current | |
| ● Rated value | 1 A; Up to 55°C max. 1 A (summation current) |
| **Power loss** | |
| Power loss, typ. | 5 W |
| **Digital inputs** | |
| Number of digital inputs | 8 |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes |
| 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 | |
| — at "0" to "1", max. | 3 ms; Typical |
| — at "1" to "0", max. | 3 ms; Typical |
| **Digital outputs** | |
| Number of digital outputs | 8 |
| Short-circuit protection | Yes |
| ● Response threshold, typ. | 4 A; Per channel |
| Limitation of inductive shutdown voltage to | 2L+ (-44 V) |


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| | |
|---|---|
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| ● on lamp load, max. | 10 W |
| Load resistance range | |
| ● lower limit | 12 Ω |
| ● upper limit | 4 kΩ |
| Output voltage | |
| ● for signal "1", min. | 2L+ (-1,2 V) |
| Output current | |
| ● for signal "1" rated value | 1.3 A |
| ● for signal "1" permissible range for 0 to 55 °C, min. | 5 mA |
| ● for signal "1" permissible range for 0 to 55 °C, max. | 1.8 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; According to IEC 60947-5-1, DC-13 |
| ● on lamp load, max. | 1 Hz |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 55 °C, max. | 5.2 A; Please note the current carrying capacity of the cable! |
| Cable length | |
| ● unshielded, max. | 30 m |
| **Encoder** | |
| Connectable encoders | |
| ● 2-wire sensor | Yes |
| — permissible quiescent current (2-wire sensor), max. | 1.5 mA |
| **Interfaces** | |
| PROFIBUS DP | |
| ● 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 |
| **Protocols** | |
| PROFIBUS DP | Yes |
| **Interrupts/diagnostics/status information** | |
| Alarms | No |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Status indicator digital input (green) | Yes |
| ● Status indicator digital output (green) | Yes |
| ● Channel fault indicator F (red) | No |
| **Potential separation** | |
| between PROFIBUS DP and all other circuit components | Yes |
| Potential separation digital inputs | |
| ● between the channels | No |
| Potential separation digital outputs | |
| ● between the channels | No |
| **Permissible potential difference** | |
| between different circuits | 75 V DC/60 V AC |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Degree and class of protection** | |
| IP degree of protection | IP65/67 |
| **Connection method** | |
| Design of electrical connection | 4/5-pin M12 circular connectors |
| **Dimensions** | |


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| | |
|---|---|
| Width | 60 mm |
| Height | 210 mm |
| Depth | 28 mm |

**Weights**

| | |
|---|---|
| Weight, approx. | 210 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** | **EMV** | **Functional Saftey** | **Maritime application**

China RoHS | TUEV

**Maritime application**

NK / Nippon Kaiji Kyokai | CCS (China Classification Society)

**Maritime application** | **Industrial Communication**

KR (Korean Register of Shipping)

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