Data sheet 6ES7132-6BF01-0BA0



SIMATIC ET 200SP, Digital output module, DQ 8x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC02, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage

| General information | |
|---|--|
| Product type designation | DQ 8x24VDC/0.5A ST |
| HW functional status | From FS02 |
| Firmware version | V0.0 |
| FW update possible | No |
| usable BaseUnits | BU type A0 |
| Color code for module-specific color identification plate | CC02 |
| Product function | |
| • I&M data | Yes; I&M0 to I&M3 |
| • Isochronous mode | No |
| Engineering with | |
| STEP 7 TIA Portal configurable/integrated from version | V14 |
| STEP 7 configurable/integrated from version | V5.5 SP3 or higher |
| PCS 7 configurable/integrated from version | V8.1 SP1 |
| PROFIBUS from GSD version/GSD revision | One GSD file each, Revision 3 and 5 and higher |
| PROFINET from GSD version/GSD revision | GSDML V2.3 |
| Operating mode | |
| • DQ | Yes |
| DQ with energy-saving function | No |
| • PWM | No |
| Oversampling | No |
| • MSO | No |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| Input current | |
| Current consumption, max. | 35 mA; without load |
| output voltage / header | |
| Rated value (DC) | 24 V |
| Power loss | |
| Power loss, typ. | 1 W |
| Address area | |
| Address space per module | |
| Address space per module, max. | 1 byte; + 1 byte for QI information |
| Hardware configuration | |
| Automatic encoding | Yes |
| Mechanical coding element | Yes |
| Type of mechanical coding element | Type A |

| Selection of BaseUnit for connection variants | |
|---|---|
| 1-wire connection | BU type A0 |
| 2-wire connection | BU type A0 |
| 3-wire connection | BU type A0 with AUX terminals or potential distributor module |
| 4-wire connection | BU type A0 + Potential distributor module |
| Digital outputs | |
| Type of digital output | Source output (PNP, current-sourcing) |
| Number of digital outputs | 8 |
| Current-sourcing | Yes |
| Digital outputs, parameterizable | Yes |
| Short-circuit protection | Yes |
| Response threshold, typ. | 1 A |
| Limitation of inductive shutdown voltage to | Typ. L+ (-50 V) |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| with resistive load, max. | 0.5 A |
| • on lamp load, max. | 5 W |
| Load resistance range | |
| • lower limit | 48 Ω |
| upper limit | 12 kΩ |
| Output voltage | |
| • for signal "1", min. | L+ (-0.8 V) |
| Output current | |
| for signal "1" rated value | 0.5 A |
| • for signal "1" permissible range, max. | 0.5 A |
| for signal "0" residual current, max. | 0.1 mA |
| Output delay with resistive load | |
| • "0" to "1", max. | 50 µs; at rated load |
| • "1" to "0", max. | 100 μs; at rated load |
| 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. | 2 Hz |
| • on lamp load, max. | 10 Hz |
| Total current of the outputs | |
| Current per channel, max. | 0.5 A |
| Current per module, max. | 4 A |
| Total current of the outputs (per module) | |
| horizontal installation | |
| — up to 60 °C, max. | 4 A |
| vertical installation | |
| — up to 50 °C, max. | 4 A |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| Interrupts/diagnostics/status information | |
| Diagnostics function | Yes |
| Substitute values connectable | Yes |
| Alarms | |
| Diagnostic alarm | Yes |
| Diagnoses | |
| Monitoring the supply voltage | Yes |
| Wire-break | Yes; Module-wise |
| Short-circuit to M | Yes; Module-wise |
| Short-circuit to L+ | Yes; Module-wise |
| Group error | Yes |
| Diagnostics indication LED | |
| Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |
| | |

| for channel diagnostics | No |
|--|--|
| for module diagnostics | Yes; green/red DIAG LED |
| Potential separation | |
| Potential separation channels | |
| between the channels | No |
| between the channels and backplane bus | Yes |
| between the channels and the power supply of the electronics | No |
| Isolation | |
| Isolation tested with | 707 V DC (type test) |
| Standards, approvals, certificates | |
| Suitable for safety functions | No |
| Suitable for safety-related tripping of standard modules | Yes; see FAQ Entry ID: 39198632 |
| Highest safety class achievable in safety mode | |
| Performance level according to ISO 13849-1 | PL d |
| • SIL acc. to IEC 61508 | SIL 2 |
| Ambient conditions | |
| Ambient temperature during operation | |
| horizontal installation, min. | -30 °C; < 0 °C as of FS02 |
| horizontal installation, max. | 60 °C |
| vertical installation, min. | -30 °C; < 0 °C as of FS02 |
| vertical installation, max. | 50 °C |
| Altitude during operation relating to sea level | |
| Installation altitude above sea level, max. | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual |
| Dimensions | |
| Width | 15 mm |
| Height | 73 mm |
| Depth | 58 mm |
| Weights | |
| Weight, approx. | 30 g |

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