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## Data sheet 6ES7132-6BH01-0BA0

SIMATIC ET 200SP, Digital output module, DQ 16x 24V DC/0,5A Standard, Source output (PNP,P-switching) Packing unit: 1 piece, fits to BU-type A0, Colour Code CC00, substitute value output, module diagnostics for: short-circuit to L+ and ground, wire break, supply voltage

| | |
|---|---|
| **General information** | |
| Product type designation | DQ 16x24VDC/0.5 ST |
| HW functional status | from FS21 |
| Firmware version | V0.0 |
| ● FW update possible | No |
| usable BaseUnits | BU type A0 |
| Color code for module-specific color-coded label | CC00 |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Isochronous mode | No |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | STEP 7 TIA V14 with HSP0222 / integrated as of TIA V15 |
| ● STEP 7 configurable/integrated from version | V5.5 SP3 with HSP0230 V7.0 / integrated as of V5.6 SP1 |
| ● 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. | 30 mA; without load |
| **Output voltage** | |
| Rated value (DC) | 24 V |
| **Power loss** | |
| Power loss, typ. | 1 W |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 2 byte; + 2 bytes for QI information |


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|---|---|
| **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 with AUX terminals or potential distributor module |
| ● 3-wire connection | BU type A0 with AUX terminals or potential distributor module |
| **Digital outputs** | |
| Type of digital output | Source output (PNP, current-sourcing) |
| Number of digital outputs | 16 |
| Current-sinking | No |
| Current-sourcing | Yes |
| Digital outputs, parameterizable | Yes |
| output type acc. to IEC 61131, type 0.5 | Yes |
| Short-circuit protection | Yes; Electronic |
| ● Response threshold, typ. | 1 A; 0.7 to 1.3 A |
| Open-circuit detection | Yes |
| 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 |
| ● with inductive load, max. | 0.5 A |
| ● on lamp load, max. | 5 W |
| Load resistance range | |
| ● lower limit | 48 Ω |
| ● upper limit | 12 kΩ |
| 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", typ. | 50 µs |
| ● "1" to "0", typ. | 100 µs |
| 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. | 0.1 Hz; higher frequencies are possible, see Equipment Manual "Maximum permitted switching frequency of inductive loads" |
| ● on lamp load, max. | 10 Hz |
| Total current of the outputs | |
| ● Current per channel, max. | 0.5 A |
| ● Current per module, max. | 8 A; see Equipment Manual "Derating curve" |
| Total current of the outputs (per module) | |
| horizontal installation | |
| — up to 40 °C, max. | 8 A |
| — up to 50 °C, max. | 6 A |
| — up to 60 °C, max. | 4 A |
| vertical installation | |
| — up to 30 °C, max. | 8 A |
| — up to 40 °C, max. | 6 A |
| — 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 |


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|---|---|
| Substitute values connectable | Yes |
| Alarms | |
| ● Diagnostic alarm | Yes |
| Diagnoses | |
| ● Monitoring the supply voltage | Yes |
| ● Wire break | Yes; module-wise |
| ● Short-circuit to ground | 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 |
| ● Channel status display | Yes; green 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 load voltage L+ | 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 | No |
| Ecological footprint | |
| ● environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 29.3 kg |
| — global warming potential, (during production) [CO2 eq] | 3.98 kg |
| — global warming potential, (during operation) [CO2 eq] | 25.6 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.245 kg |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● horizontal installation, min. | -30 °C; < 0 °C as of FS03 |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -30 °C; < 0 °C as of FS03 |
| ● 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 ET 200SP system manual |
| Absolute humidity | |
| ● dew point, min. | -60 °C; suitable for dry room applications |
| **Dimensions** | |
| Width | 15 mm |
| Height | 73 mm |
| Depth | 58 mm |
| **Weights** | |
| Weight, approx. | 30 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 |


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| | | |
|---|---|---|
| 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

### EMV

### For use in hazardous locations

FM | CCC-Ex | Type Examination Certificate

### For use in hazardous locations

Miscellaneous | CCC-Ex

### Maritime application

### Maritime application

NK / Nippon Kaiji Kyokai | CCS (China Classification Society) | KR (Korean Register of Shipping)

### Environment

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