SIEMENS

## Data sheet 6ES7132-6BD20-0CA0



SIMATIC ET 200SP, digital output module, DQ 4x 24VDC/2A High Feature, suitable for BU type A0, Color code CC02, channel diagnostics

| | |
|---|---|
| **General information** | |
| Product type designation | DQ 4x DC 24 V/2 A HF |
| HW functional status | FS20 or higher |
| Firmware version | V2.0.3 |
| ● FW update possible | Yes |
| usable BaseUnits | BU type A0 |
| Color code for module-specific color-coded label | CC02 |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Isochronous mode | Yes; 250 µs |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | V13 SP1 / - |
| ● STEP 7 configurable/integrated from version | V5.5 / - |
| ● PROFIBUS from GSD version/GSD revision | GSD Revision 5 |
| ● PROFINET from GSD version/GSD revision | GSDML V2.3 |
| Operating mode | |
| ● DQ | Yes |
| ● DQ with energy-saving function | No |
| ● PWM | No |
| ● Oversampling | No |
| ● MSO | Yes |
| **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 (rated value) | 28 mA |
| Current consumption, max. | 28 mA |
| **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. | 4 byte; 2 channels per submodule + 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 |
| ● 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 | 4 |
| Current-sinking | No |
| Current-sourcing | Yes |
| Digital outputs, parameterizable | Yes |
| output type acc. to IEC 61131, type 2 | Yes |
| Short-circuit protection | Yes; Electronic |
| ● Response threshold, typ. | 2.8 to 5.2 A |
| Limitation of inductive shutdown voltage to | L+ -(37 to 41V) |
| Controlling a digital input | Yes; Minimum current consumption 7 mA |
| Switching capacity of the outputs | |
| ● with resistive load, max. | 2 A |
| ● on lamp load, max. | 10 W |
| Load resistance range | |
| ● lower limit | 12 Ω |
| ● upper limit | 3 400 Ω |
| Output current | |
| ● for signal "1" rated value | 2 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 |
| 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. | 2 A |
| ● Current per module, max. | 8 A |
| 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 |
| **Isochronous mode** | |
| Bus cycle time (TDP), min. | 500 µs |
| Jitter, max. | 8 µs |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | Yes |
| Substitute values connectable | Yes |


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| Alarms | |
| ● Diagnostic alarm | Yes |
| Diagnoses | |
| ● Monitoring the supply voltage | Yes |
| ● Wire break | Yes; channel by channel |
| ● Short-circuit to ground | Yes; channel by channel |
| ● Short-circuit to L+ | Yes; channel by channel |
| ● 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 | Yes; red LED |
| ● for module diagnostics | Yes; green/red DIAG LED |
| **Potential separation** | |
| Potential separation channels | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| **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 |
| Ecological footprint | |
| ● environmental product declaration | Yes; type II acc. to ISO 14021 |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 29.3 kg |
| — global warming potential, (during production) [CO2 eq] | 4 kg |
| — global warming potential, (during operation) [CO2 eq] | 25.6 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | 0.245 kg |
| 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 FS06 |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -30 °C; < 0 °C as of FS06 |
| ● 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 |

**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 |


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|---|---|---|
| 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 | For use in hazardous locations

China RoHS

### For use in hazardous locations

FM | CCC-Ex | Type Examination Certificate | Miscellaneous

### For use in hazardous locations | Maritime application

CCC-Ex | NK / Nippon Kaiji Kyokai

### Maritime application | Environment

CCS (China Classification Society) | KR (Korean Register of Shipping)

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