SIEMENS

## Data sheet 6ES7132-4BB31-0AB0



*** Spare part *** SIMATIC DP, 5 electronic modules for ET 200S, 2 DO High Feature 24 V DC/2 A, 15 mm width, Diagnostics short circuit and wire break, Substitute value output with LED SF (group fault) 5 units per packing unit

| | |
|---|---|
| **General information** | |
| Product function | |
| ● Isochronous mode | Yes |
| **Supply voltage** | |
| Reverse voltage protection | Yes; when using the same load voltage as on the power module |
| Load voltage L+ | |
| ● Rated value (DC) | 24 V; From power module |
| ● Reverse polarity protection | Yes; polarity reversal can lead to the digital outputs being connected through |
| **Input current** | |
| from load voltage L+ (without load), max. | 5 mA; Per channel |
| from backplane bus 3.3 V DC, max. | 10 mA |
| **Power loss** | |
| Power loss, typ. | 1.4 W |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 1 byte |
| ● with packing | 2 bit |
| **Digital outputs** | |
| Type of digital output | Source output (PNP, current-sourcing) |
| Number of digital outputs | 2 |
| Short-circuit protection | Yes |
| ● Response threshold, typ. | 4 A |
| Limitation of inductive shutdown voltage to | -55 to -60 V, typ. L+( ) |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| ● on lamp load, max. | 5 W |
| Load resistance range | |
| ● lower limit | 12 Ω |
| ● upper limit | 3 400 Ω |
| Output voltage | |
| ● for signal "1", min. | L+ (-1 V) |
| Output current | |
| ● for signal "1" rated value | 2 A |
| ● for signal "1" permissible range, min. | 7 mA |
| ● for signal "1" permissible range, max. | 2.4 A |
| ● for signal "0" residual current, max. | 0.5 mA |
| Output delay with resistive load | |
| ● "0" to "1", max. | 100 µs |
| ● "1" to "0", max. | 400 µs |


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| | |
|---|---|
| Parallel switching of two outputs | |
| ● for uprating | No |
| ● for redundant control of a load | Yes; per module |
| Switching frequency | |
| ● with resistive load, max. | 100 Hz |
| ● with inductive load, max. | 2 Hz; 0,5 H |
| ● on lamp load, max. | 10 Hz |
| Total current of the outputs | |
| ● Current per module, 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; 0/1 |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| ● Wire break | Yes; channel by channel |
| ● Short-circuit | Yes; channel by channel |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Status indicator digital output (green) | Yes |
| **Potential separation** | |
| Potential separation digital outputs | |
| ● between the channels | No |
| ● between the channels and backplane bus | Yes |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Dimensions** | |
| Width | 15 mm |
| Height | 81 mm |
| Depth | 52 mm |
| **Weights** | |
| Weight, approx. | 40 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**


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Miscellaneous | Manufacturer Declaration

| General Product Approval | EMV | For use in hazardous locations |
|---|---|---|

China RoHS

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

FM | Miscellaneous

| For use in hazardous locations | Maritime application |
|---|---|

CCC-Ex | NK / Nippon Kaiji Kyokai

| Maritime application |
|---|

CCS (China Classification Society)

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