SIEMENS

## Data sheet 6ES7422-1BH11-0AA0



Figure similar

SIMATIC S7-400, digital output SM 422, isolated 16 DO; 24 V DC, 2 A

| | |
|---|---|
| **Supply voltage** | |
| Load voltage L+ | |
| ● Rated value (DC) | 24 V |
| ● permissible range, lower limit (DC) | 20.4 V |
| ● permissible range, upper limit (DC) | 28.8 V |
| **Input current** | |
| from load voltage L+ (without load), max. | 30 mA |
| from backplane bus 5 V DC, max. | 160 mA |
| **Power loss** | |
| Power loss, typ. | 5 W |
| **Digital outputs** | |
| Number of digital outputs | 16 |
| Short-circuit protection | Yes; Clocked electronically |
| ● Response threshold, typ. | 2.8 to 6 A |
| Limitation of inductive shutdown voltage to | -30 V |
| Controlling a digital input | Yes; possible |
| Switching capacity of the outputs | |
| ● on lamp load, max. | 10 W |
| Load resistance range | |
| ● lower limit | 24 Ω |
| ● upper limit | 4 kΩ |
| Output voltage | |
| ● for signal "1", min. | L+ (-0.5 V) |
| Output current | |
| ● for signal "1" rated value | 2 A |
| ● for signal "1" permissible range, min. | 5 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. | 1 ms |
| ● "1" to "0", max. | 1 ms |
| Parallel switching of two outputs | |
| ● for uprating | No; Not possible |
| ● for redundant control of a load | Yes; possible (only outputs of the same group) |
| Switching frequency | |
| ● with resistive load, max. | 100 Hz |
| ● with inductive load, max. | 0.1 Hz |
| ● with inductive load (acc. to IEC 60947-5-1, DC13), max. | 0.2 Hz; 0.2 Hz at 1 A; 0.1 Hz at 2 A |


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| | |
|---|---|
| ● on lamp load, max. | 10 Hz |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 40 °C, max. | 3 A |
| — up to 60 °C, max. | 2 A; 2 adjacent outputs each |
| Cable length | |
| ● shielded, max. | 1 000 m |
| ● unshielded, max. | 600 m |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | No |
| **Potential separation** | |
| Potential separation digital outputs | |
| ● between the channels | Yes |
| ● between the channels, in groups of | 8 |
| ● between the channels and backplane bus | Yes |
| **Isolation** | |
| Isolation tested with | 500 V DC |
| **Dimensions** | |
| Width | 25 mm |
| Height | 290 mm |
| Depth | 210 mm |
| **Weights** | |
| Weight, approx. | 600 g |

**Classifications**

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-22-04 |
| eClass | 14 | 27-24-22-04 |
| eClass | 12 | 27-24-22-04 |
| eClass | 9.1 | 27-24-22-04 |
| eClass | 9 | 27-24-22-04 |
| eClass | 8 | 27-24-22-04 |
| eClass | 7.1 | 27-24-22-04 |
| eClass | 6 | 27-24-22-04 |
| ETIM | 10 | EC001419 |
| ETIM | 9 | EC001419 |
| ETIM | 8 | EC001419 |
| ETIM | 7 | EC001419 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

**Approvals / Certificates**

**General Product Approval**

Miscellaneous











| General Product Approval | | | EMV | | For use in hazardous locations |
|---|---|---|---|---|---|
| China RoHS | Miscellaneous | Manufacturer Declaration | RCM | RCM | IECEx |

**For use in hazardous locations**


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FM







Type Examination Certificate




**Maritime application**













NK / Nippon Kaiji Kyokai




**Maritime application**







CCS (China Classification Society)

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