SIEMENS

## Data sheet 6ES7222-1HF22-0XA0




Figure similar

***Spare part*** SIMATIC S7-200, Digital output EM 222, only for S7-22X CPU, 8 DA (relay outputs), 2A

| | |
|---|---|
| **Supply voltage** | |
| Load voltage L+ | |
| ● Rated value (DC) | 24 V |
| ● permissible range, lower limit (DC) | 5 V |
| ● permissible range, upper limit (DC) | 30 V |
| Load voltage L1 | |
| ● Rated value (AC) | 24 V; 24V AC to 230V AC |
| ● permissible range, lower limit (AC) | 5 V |
| ● permissible range, upper limit (AC) | 250 V |
| ● permissible frequency range, lower limit | 47 Hz |
| ● permissible frequency range, upper limit | 63 Hz |
| **Input current** | |
| from backplane bus 5 V DC, max. | 40 mA |
| Digital outputs | |
| ● from load voltage L+, max. | 72 mA; 9 mA per switched output |
| **Power loss** | |
| Power loss, typ. | 2 W |
| **Digital outputs** | |
| Number of digital outputs | 8; Relays |
| Short-circuit protection | No |
| Limitation of inductive shutdown voltage to | to be provided externally (see manual package "Setting up an S7-200") |
| Output current | |
| ● for signal "1" rated value | 2 A |
| ● for signal "1" permissible range for 0 to 55 °C, max. | 2 A |
| ● for signal "0" residual current, max. | 0 mA |
| Total current of the outputs (per group) | |
| all mounting positions | |
| — up to 40 °C, max. | 8 A |
| — Current per conductor/group, max. | 8 A |
| horizontal installation | |
| — up to 55 °C, max. | 8 A |
| Relay outputs | |
| ● Number of operating cycles, max. | 10 000 000; mechanically 10 million, at rated load voltage 100 000 |
| Switching capacity of contacts | |
| — with inductive load, max. | 2 A |
| — on lamp load, max. | 200 W; 30 W with DC, 200 W with AC |
| — with resistive load, max. | 2 A |
| Cable length | |


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| | |
|---|---|
| ● shielded, max. | 500 m |
| ● unshielded, max. | 150 m |
| **Potential separation** | |
| Potential separation digital outputs | |
| ● Potential separation digital outputs | Yes; Relays |
| ● between the channels, in groups of | 4 |
| **Connection method** | |
| Plug-in I/O terminals | Yes |
| **Dimensions** | |
| Width | 45 mm |
| Height | 80 mm |
| Depth | 62 mm |
| **Weights** | |
| Weight, approx. | 170 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**

EG-Konf. | Miscellaneous | Manufacturer Declaration | EAC | Manufacturer Declaration | China RoHS

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

FM

ABS | BUREAU VERITAS | DNV | GL | LRS

**Maritime application**

RMRS | CCS (China Classification Society)

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