SIEMENS

## Data sheet 6ES7322-1HH01-0AA0



Figure similar

***spare part*** SIMATIC S7-300, digital output SM 322, isolated 16 DO, relay contacts, 1x 20-pole

| | |
|---|---|
| **Supply voltage** | |
| Load voltage L+ | |
| ● Rated value (DC) | 120 V |
| Load voltage L1 | |
| ● Rated value (AC) | 230 V |
| **Input current** | |
| from supply voltage L+, max. | 250 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| **Power loss** | |
| Power loss, typ. | 4.5 W |
| **Digital outputs** | |
| Number of digital outputs | 16; Relays |
| Short-circuit protection | No |
| Controlling a digital input | Yes |
| Size of motor starters according to NEMA, max. | Size 5 according to NEMA |
| Switching capacity of the outputs | |
| ● on lamp load, max. | 50 W; 230 V AC |
| Output current | |
| ● for signal "1" rated value | 2 A |
| ● for signal "1" minimum load current | 10 mA |
| Parallel switching of two outputs | |
| ● for uprating | No |
| ● for redundant control of a load | Yes |
| Switching frequency | |
| ● with resistive load, max. | 1 Hz |
| ● with inductive load, max. | 0.5 Hz |
| ● With inductive load (to IEC 60947-5-1, DC13/AC15), max. | 0.5 Hz |
| ● on lamp load, max. | 1 Hz |
| ● mechanical, max. | 10 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 60 °C, max. | 8 A |
| vertical installation | |
| — up to 40 °C, max. | 8 A |
| Relay outputs | |
| ● Rated supply voltage of relay coil L+ (DC) | 24 V |
| ● Contact connection (internal) | No |
| ● Number of operating cycles, max. | 100 000; 50 000 (24 V DC, at 2 A); 700 000 (120 V AC, at 2 A); 100 000 (230 V |


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| | |
|---|---|
| | AC, at 2 A) |
| Switching capacity of contacts | |
| — with inductive load, max. | 2 A; 2 A (230 V AC), 2 A (24 V DC) |
| — with resistive load, max. | 2 A; 2 A (230 V AC), 2 A (24 V DC) |
| — Thermal continuous current, max. | 2 A |
| Cable length | |
| ● shielded, max. | 1 000 m |
| ● unshielded, max. | 600 m |
| **Interrupts/diagnostics/status information** | |
| Alarms | No |
| Diagnostics function | No |
| Alarms | |
| ● Diagnostic alarm | No |
| Diagnoses | |
| ● Wire break | No |
| ● Short-circuit | No |
| ● Fuse blown | No |
| ● Missing load voltage | No |
| Diagnostics indication LED | |
| ● Rated load voltage PWR (green) | No |
| ● Fuse OK FSG (green) | No |
| ● Status indicator digital output (green) | Yes |
| **Potential separation** | |
| Potential separation digital outputs | |
| ● between the channels | Yes |
| ● between the channels, in groups of | 8 |
| ● between the channels and backplane bus | Yes; Optocoupler |
| **Isolation** | |
| Isolation tested with | 1 500 V AC |
| **Connection method** | |
| required front connector | 20-pin |
| **Dimensions** | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| **Weights** | |
| Weight, approx. | 250 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 | other | Environment |
|---|---|---|


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Confirmation

Confirmation

Environmental Confirmations

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