SIEMENS

## Data sheet 6ES7322-5HF00-0AB0



Figure similar

***spare part*** SIMATIC S7-300, digital output SM 322, isolated, 8 DO (relay), 1x 40-pole, 24 V DC, 120-230 V AC, 5 A with RC filter overvoltage protection

| | |
|---|---|
| **Supply voltage** | |
| Load voltage L+ | |
| ● Rated value (DC) | 24 V |
| ● permissible range, lower limit (DC) | 24 V |
| ● permissible range, upper limit (DC) | 120 V |
| Load voltage L1 | |
| ● Rated value (AC) | 230 V |
| **Input current** | |
| from supply voltage L+, max. | 160 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| **Power loss** | |
| Power loss, typ. | 3.5 W |
| **Digital outputs** | |
| Number of digital outputs | 8; Relays |
| Short-circuit protection | No; to be provided externally |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| ● on lamp load, max. | 1 500 W; 230 V AC |
| ● Low energy/fluorescent lamps with electronic control gear | 10x 58 W |
| ● Fluorescent tubes, conventionally compensated | 1x 58 W |
| ● Fluorescent tubes, uncompensated | 10x 58 W |
| Output current | |
| ● for signal "1" rated value | 5 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. | 2 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. | 2 Hz |
| ● mechanical, max. | 10 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 60 °C, max. | 5 A |
| vertical installation | |
| — up to 40 °C, max. | 5 A |


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| | |
|---|---|
| Relay outputs | |
| ● Contact connection (internal) | Yes; 330 Ohm, 0.1uF |
| ● Number of operating cycles, max. | 100 000; 100 000 (24 V DC, at 5 A), 100 000 (230 V AC, at 5 A) |
| Switching capacity of contacts | |
| — with inductive load, max. | 5 A; 5 A (230 V DC), 5 A (24 V AC) |
| — with resistive load, max. | 5 A; 5 A (230 V DC), 5 A (24 V AC) |
| — Thermal continuous current, max. | 5 A |
| Cable length | |
| ● shielded, max. | 1 000 m |
| ● unshielded, max. | 600 m |
| **Interrupts/diagnostics/status information** | |
| Alarms | Yes |
| Diagnostics function | Yes; Parameterizable |
| Alarms | |
| ● Diagnostic alarm | Yes; Parameterizable |
| Diagnoses | |
| ● Diagnostic information readable | Yes |
| Diagnostics indication LED | |
| ● Group error SF (red) | Yes |
| ● Status indicator digital output (green) | Yes |
| **Potential separation** | |
| Potential separation digital outputs | |
| ● between the channels | Yes |
| ● between the channels, in groups of | 1 |
| ● between the channels and backplane bus | Yes; Optocoupler |
| ● Between the channels and the power supply of the relays | Yes |
| **Isolation** | |
| Isolation tested with | 1 500 V AC |
| **Connection method** | |
| required front connector | 40-pin |
| **Dimensions** | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| **Weights** | |
| Weight, approx. | 320 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** | |


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|---|---|---|---|---|---|
| Miscellaneous | Manufacturer Declaration | | | | |

| General Product Approval | | | EMV | | |
|---|---|---|---|---|---|
| | China RoHS | Manufacturer Declaration | | | |

| For use in hazardous locations | Maritime application | | | | |
|---|---|---|---|---|---|
| FM | | | | | NK / Nippon Kaiji Kyokai |

| Maritime application | | |
|---|---|---|
| | | CCS (China Classification Society) |

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