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## Data sheet 6ES7322-1FF01-0AA0

SIMATIC S7-300, DIGITAL OUTPUT SM 322, OPTICALLY ISOLATED, 8 DO, 120/230V AC, 1A, 1 X 20 PIN

Figure similar

| | |
|---|---|
| **Supply voltage** | |
| Load voltage L1 | |
| • Rated value (AC) | 230 V; 120/230V AC |
| • permissible range, lower limit (AC) | 93 V |
| • permissible range, upper limit (AC) | 264 V |
| **Input current** | |
| from load voltage L1 (without load), max. | 2 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| **Power loss** | |
| Power loss, typ. | 8.6 W |
| **Digital outputs** | |
| Number of digital outputs | 8 |
| Switching capacity of the outputs | |
| • on lamp load, max. | 50 W |
| Output voltage | |
| • for signal "1", min. | L1 (-1.5 V) |


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| | |
|---|---|
| Output current | |
| • for signal "1" rated value | 2 A |
| • for signal "1" minimum load current | 10 mA |
| • for signal "1" permissible surge current, max. | 20 A; max. 1 AC cycle |
| • for signal "0" residual current, max. | 2 mA |
| Switching frequency | |
| • with resistive load, max. | 10 Hz |
| • with inductive load, max. | 0.5 Hz |
| • on lamp load, max. | 1 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 40 °C, max. | 4 A |
| — up to 60 °C, max. | 2 A |
| vertical installation | |
| — up to 40 °C, max. | 2 A |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |

| | |
|---|---|
| **Interrupts/diagnostics/status information** | |
| Diagnostic functions | Yes; Fuse blown or load voltage missing |
| Alarms | |
| • Diagnostic alarm | No |
| Diagnostic messages | |
| • Wire-break | No |
| • Short-circuit | No |
| • Fuse blown | Yes |
| • missing load voltage | Yes |
| Diagnostics indication LED | |
| • Rated load voltage PWR (green) | Yes |
| • Fuse OK FSG (green) | Yes |
| • 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 | 4 |
| • between the channels and backplane bus | Yes; Optocoupler |

| | |
|---|---|
| **Isolation** | |
| Isolation tested with | 1500 V AC |

**Connection method**


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| | |
|---|---|
| required front connector | 20-pin |

| Dimensions | |
|---|---|
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |

| Weights | |
|---|---|
| Weight, approx. | 275 g |

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