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## Data sheet 6ES7322-1BF01-0AA0

SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 24 V DC, 2A, 1x 20-pole

Figure similar

| | |
|---|---|
| **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. | 60 mA |
| from backplane bus 5 V DC, max. | 40 mA |
| **Power loss** | |
| Power loss, typ. | 6.8 W |
| **Digital outputs** | |
| Number of digital outputs | 8 |
| Short-circuit protection | Yes; Electronic |
| • Response threshold, typ. | 3 A |
| Limitation of inductive shutdown voltage to | L+ (-48 V) |
| Controlling a digital input | Yes |


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| | |
|---|---|
| Switching capacity of the outputs | |
| • on lamp load, max. | 10 W |
| Load resistance range | |
| • lower limit | 12 Ω |
| • upper limit | 4 kΩ |
| Output voltage | |
| • for signal "1", min. | L+ (-0.8 V) |
| Output current | |
| • for signal "1" rated value | 2 A |
| • for signal "1" permissible range for 0 to 40 °C, min. | 5 mA |
| • for signal "1" permissible range for 0 to 40 °C, max. | 2.4 A |
| • for signal "1" permissible range for 40 to 60 °C, min. | 5 mA |
| • for signal "1" permissible range for 40 to 60 °C, max. | 2.4 A |
| • for signal "1" minimum load current | 5 mA |
| • for signal "0" residual current, max. | 0.5 mA |
| Output delay with resistive load | |
| • "0" to "1", max. | 100 µs |
| • "1" to "0", max. | 500 µs |
| Parallel switching of two outputs | |
| • for uprating | No |
| • for redundant control of a load | Yes |
| Switching frequency | |
| • with resistive load, max. | 100 Hz |
| • with inductive load, max. | 0.5 Hz |
| • with inductive load (acc. to IEC 60947-5-1, DC13), max. | 0.5 Hz |
| • on lamp load, max. | 10 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 40 °C, max. | 4 A |
| — up to 60 °C, max. | 4 A |
| vertical installation | |
| — up to 40 °C, max. | 4 A |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |

| | |
|---|---|
| Interrupts/diagnostics/status information | |
| Alarms | No |


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| | |
|---|---|
| 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; per channel |

| 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 | 500 V DC |

| Connection method | |
|---|---|
| required front connector | 20-pin |

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

| Weights | |
|---|---|
| Weight, approx. | 190 g |

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