SIEMENS

Data sheet

6ES7322-1BH10-0AA0



SIMATIC S7-300, Digital output SM 322 High Speed, isolated, 16 DO, 24 V DC, 0.5A, 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. | 110 mA |
| from backplane bus 5 V DC, max. | 70 mA |
| Power loss | |
| Power loss, typ. | 5 W |
| Digital outputs | |
| Number of digital outputs | 16 |
| Short-circuit protection | Yes; Electronic |
| Response threshold, typ. | 1 A |
| Limitation of inductive shutdown voltage to | L+ (-53 V) |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | |
| on lamp load, max. | 5 W |
| Load resistance range | |
| lower limit | 48 Ω |
| • upper limit | 4 kΩ |
| Output voltage | |
| for signal "1", min. | L+ (-0.8 V) |
| Output current | |
| for signal "1" rated value | 0.5 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. | 0.6 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. | 0.6 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. | 200 μs |
| Parallel switching of two outputs | |
| for uprating | No |
| for redundant control of a load | Yes; only outputs of the same group |
| Switching frequency | |
| with resistive load, max. | 1 000 Hz |
| | |

| | 0.511 |
|---|------------------|
| • 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. | 3 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 | |
| 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; per channel |
| 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 | 500 V DC |
| connection method / header | |
| required front connector | 20-pin |
| Dimensions | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 200 g |
| last modified: | 1/16/2021 |

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