SIEMENS

Data sheet

6ES7323-1BL00-0AA0



SIMATIC S7-300, Digital module SM 323, isolated, 16 DI and 16 DO, 24 V DC, 0.5 A, Total current 4A, 1x 40-pole

Figure simila

| 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. | 80 mA | |
| from backplane bus 5 V DC, max. | 80 mA | |
| Power loss | | |
| Power loss, typ. | 6.5 W | |
| Digital inputs | | |
| Number of digital inputs | 16 | |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes | |
| Number of simultaneously controllable inputs | | |
| horizontal installation | | |
| — up to 40 °C, max. | 16 | |
| — up to 60 °C, max. | 8 | |
| vertical installation | | |
| — up to 40 °C, max. | 16 | |
| Input voltage | | |
| Type of input voltage | DC | |
| Rated value (DC) | 24 V | |
| ● for signal "0" | -30 to +5 V | |
| • for signal "1" | 13 to 30V | |
| Input current | | |
| • for signal "1", typ. | 7 mA | |
| Input delay (for rated value of input voltage) | | |
| for standard inputs | | |
| — at "0" to "1", min. | 1.2 ms | |
| — at "0" to "1", max. | 4.8 ms | |
| — at "1" to "0", min. | 1.2 ms | |
| — at "1" to "0", max. | 4.8 ms | |
| Cable length | | |
| shielded, max. | 1 000 m | |
| unshielded, max. | 600 m | |

| Digital outputs | |
|--|-------------------------------------|
| Number of digital outputs | 16 |
| Short-circuit protection | Yes |
| Response threshold, typ. | 1 A |
| Limitation of inductive shutdown voltage to | L+ (-48 V) |
| Controlling a digital input | Yes |
| Switching capacity of the outputs | 103 |
| • on lamp load, max. | 5 W |
| Load resistance range | 3 ** |
| • lower limit | 48 Ω |
| • upper limit | 4 kΩ |
| Output voltage | 7 1/22 |
| • for signal "1", min. | L+ (-0.8 V) |
| Output current | L' (0.0 V) |
| for signal "1" rated value | 0.5 A |
| for signal "1" permissible range, min. | 5 mA |
| • for signal "1" permissible range, 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 | 0.0 111/1 |
| "0" to "1", max. | 100 μs |
| • "1" to "0", max. | |
| Parallel switching of two outputs | 500 μs |
| | No |
| • for uprating | No |
| for redundant control of a load Cuitabing fragularity | Yes; only outputs of the same group |
| Switching frequency | 100 Hz |
| with resistive load, max. with industive load, max. | 0.5 Hz |
| with inductive load, max. | |
| on lamp load, max. Total support of the subsubs (non require) | 100 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | 4.4 |
| — 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 | 4.000 |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| Encoder | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| permissible quiescent current (2-wire sensor), | 1.5 mA |
| max. | |
| Interrupts/diagnostics/status information | |
| Alarms | No |
| Diagnostics function | No |
| Diagnostics indication LED | |
| Status indicator digital input (green) | Yes |
| Status indicator digital output (green) | Yes |
| Potential separation | |
| Potential separation digital inputs | |
| between the channels | Yes |
| between the channels, in groups of | 16 |
| between the channels and backplane bus | Yes; Optocoupler |
| 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 | | |
| required front connector | 40-pin | |
| Dimensions | | |
| Width | 40 mm | |
| Height | 125 mm | |
| Depth | 120 mm | |
| Weights | | |
| Weight, approx. | 260 g | |

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