

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 |
| Limitation of inductive shutdown voltage to | L+ (-53 V) |
| 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" minimum load current | 5 mA |
| • for signal "0" residual current, max. | 0.5 mA |
| Switching frequency | |
| • with resistive load, max. | 1 000 Hz |
| • with inductive load, 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 | |
| Diagnostics function | No |
| Alarms | |
| • Diagnostic alarm | No |
| Diagnostic messages | |
| • 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 | |
|--------------------------|------------|
| required front connector | 20-pin |
| Dimensions | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 200 g |
| last modified: | 06/19/2019 |