

SIMATIC S7-300, DIGITAL OUTPUT SM 322, OPTICALLY ISOLATED, 32DO, 24V DC, 0.5A, 1 X 40 PIN, SUM OF OUTPUT CURRENTS 4A/GROUP (16A/MODULE)



| 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. | 160 mA |
| from backplane bus 5 V DC, max. | 110 mA |
| Power loss | |
| Power loss, typ. | 6.6 W |
| Digital outputs | |
| Number of digital outputs | 32 |
| 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 |

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| • 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. | 100 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 | |
| Diagnostic functions | No |
| Alarms | |
| • Diagnostic alarm | No |
| Diagnostic messages | |
| • Wire-break | No |
| • Short-circuit | No |
| • missing load voltage | No |
| Diagnostics indication LED | |
| • Rated load voltage PWR (green) | No |
| • Fuse OK FSG (green) | No |
| • Group error SF (red) | No |
| • Status indicator digital output (green) | Yes; per channel |
| • Channel fault indicator F (red) | No |
| 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

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| required front connector | 40-pin |
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Dimensions

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| Width | 40 mm |
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| Height | 125 mm |
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| Depth | 120 mm |
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Weights

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| Weight, approx. | 260 g |
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| last modified: | 03/24/2017 |
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