



Figure similar

SIMATIC S7-300, Digital output SM 322, isolated, 8 DO, 120/230 V AC, 2A, with single rooting/channel and selectable failure mode, 1x 40-pole

| Supply voltage | |
|-----------------------------------------------------------|---------------------------------------------------------------------|
| Load voltage L1 | |
| • Rated value (AC) | 230 V; 120/230 V AC |
| • permissible range, lower limit (AC) | 79 V |
| • permissible range, upper limit (AC) | 264 V |
| Input current | |
| from load voltage L1 (without load), max. | 2 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| Power loss | |
| Power loss, typ. | 8.6 W |
| Digital outputs | |
| Number of digital outputs | 8 |
| Short-circuit protection | Yes; to be provided externally; fuse 3.15 A / 250 V, quick response |
| Controlling a digital input | Yes |
| Size of motor starters according to NEMA, max. | Size 5 according to NEMA |
| Zero-crossing switch | Yes; 60 V |
| Switching capacity of the outputs | |
| • on lamp load, max. | 50 W |
| Output voltage | |
| • for signal "1", min. | L1 (-8.5 V) |
| Output current | |
| • for signal "1" rated value | 2 A |
| • for signal "1" permissible range for 0 to 40 °C, min. | 10 mA |
| • for signal "1" permissible range for 0 to 40 °C, max. | 2 A |
| • for signal "1" permissible range for 40 to 60 °C, min. | 10 mA |
| • for signal "1" permissible range for 40 to 60 °C, max. | 1 A |
| • for signal "1" minimum load current | 10 mA |
| • for signal "1" permissible surge current, max. | 20 A; with 2 half waves |
| • for signal "0" residual current, max. | 2 mA |
| Parallel switching of two outputs | |
| • for uprating | No |
| • for redundant control of a load | Yes |
| Switching frequency | |
| • with resistive load, max. | 10 Hz |
| • with inductive load, max. | 0.5 Hz |
| • with inductive load (acc. to IEC 60947-5-1, AC15), max. | 0.5 Hz |
| • on lamp load, max. | 1 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |

| | |
|-------------------------------------------|----------------------|
| — up to 40 °C, max. | 8 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 | |
| Diagnostics function | Yes; Parameterizable |
| Alarms | |
| • Diagnostic alarm | Yes; Parameterizable |
| Diagnostics indication LED | |
| • Group error SF (red) | Yes |
| • Status indicator digital output (green) | Yes |
| Potential separation | |
| Potential separation digital outputs | |
| • between the channels | Yes |
| • between the channels, in groups of | 1 |
| • between the channels and backplane bus | Yes; Optocoupler |
| Isolation | |
| Isolation tested with | 1 500 V AC |
| connection method | |
| required front connector | 40-pin |
| Dimensions | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 275 g |

last modified: 3/12/2024 