




SIMATIC S7-300, Digital output SM 322, Isolated 16 DO, relay contacts, 1x 20-pole

Figure similar

| Supply voltage | |
|---|---|
| Load voltage L+ | |
| • Rated value (DC) | 120 V |
| Load voltage L1 | |
| • Rated value (AC) | 230 V |
| Input current | |
| from supply voltage L+, max. | 250 mA |
| from backplane bus 5 V DC, max. | 100 mA |
| Power loss | |
| Power loss, typ. | 4.5 W |
| Digital outputs | |
| Number of digital outputs | 16; Relays |
| Short-circuit protection | No |
| Controlling a digital input | Yes |
| Size of motor starters according to NEMA, max. | Size 5 according to NEMA |
| Switching capacity of the outputs | |
| • on lamp load, max. | 50 W; 230 V AC |
| Output current | |
| • for signal "1" rated value | 2 A |
| • for signal "1" minimum load current | 10 mA |
| Parallel switching of two outputs | |
| • for uprating | No |
| • for redundant control of a load | Yes |
| Switching frequency | |
| • with resistive load, max. | 1 Hz |
| • with inductive load, max. | 0.5 Hz |
| • With inductive load (to IEC 60947-5-1, DC13/AC15), max. | 0.5 Hz |
| • on lamp load, max. | 1 Hz |
| • mechanical, max. | 10 Hz |
| Total current of the outputs (per group) | |
| horizontal installation | |
| — up to 60 °C, max. | 8 A |
| vertical installation | |
| — up to 40 °C, max. | 8 A |
| Relay outputs | |
| • Rated supply voltage of relay coil L+ (DC) | 24 V |
| • Contact connection (internal) | No |
| • Number of operating cycles, max. | 100 000; 50 000 (24 V DC, at 2 A); 700 000 (120 V AC, at 2 A); 100 000 (230 V AC, at 2 A) |

| | |
|--|---|
| Switching capacity of contacts | |
| — with inductive load, max. | 2 A; 2 A (230 V AC), 2 A (24 V DC) |
| — with resistive load, max. | 2 A; 2 A (230 V AC), 2 A (24 V DC) |
| — Thermal continuous current, 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 |
| 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 | 1 500 V AC |
| connection method / header | |
| required front connector | 20-pin |
| Dimensions | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 250 g |
| last modified: | 1/16/2021  |