SIEMENS

Data sheet

6ES7322-1FL00-0AA0



SIMATIC S7-300, Digital output SM 322, isolated, 32 DO, 120 V/230 V AC, 1 A, double-width, $2x\,20\text{-pole}$

Figure similar

| 1 & 113.741 | | |
|--|-------------------------------------|--|
| Supply voltage | | |
| Load voltage L1 | | |
| Rated value (AC) | 120 V; 120/230 V AC | |
| permissible range, lower limit (AC) | 79 V | |
| permissible range, upper limit (AC) | 264 V | |
| permissible frequency range, lower limit | 47 Hz | |
| permissible frequency range, upper limit | 63 Hz | |
| Input current | | |
| from load voltage L1 (without load), max. | 10 mA | |
| from backplane bus 5 V DC, max. | 190 mA | |
| Power loss | | |
| Power loss, typ. | 25 W | |
| Digital outputs | | |
| Number of digital outputs | 32 | |
| Short-circuit protection | No | |
| Controlling a digital input | Yes | |
| Size of motor starters according to NEMA, max. | Size 4 according to NEMA | |
| Zero-crossing switch | Yes; Max. 60 V | |
| Switching capacity of the outputs | | |
| on lamp load, max. | 50 W | |
| Output voltage | | |
| ● for signal "1", min. | L1 (-0.8 V) | |
| Output current | | |
| for signal "1" rated value | 1 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. | 1 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. | 10 A; per group (for 2 AC cycles) | |
| • for signal "0" residual current, max. | 2 mA | |
| Output delay with resistive load | | |
| • "0" to "1", max. | 1 AC cycle | |
| ● "1" to "0", max. | 1 AC cycle | |
| Parallel switching of two outputs | | |
| • for uprating | No | |
| for redundant control of a load | Yes; only outputs of the same group | |
| Switching frequency | | |
| with resistive load, max. | 10 Hz | |

| with the december of the end of t | 0.5 Hz | |
|--|---|--|
| with inductive load, max. with inductive load (see to ISO 00047.5.4. A 045), max. | | |
| • 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. | 4 A | |
| — up to 60 °C, max. | 3 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 | | |
| Alarms | No | |
| Diagnostics function | Yes; Fuse blown or load voltage missing | |
| Alarms | | |
| Diagnostic alarm | No | |
| Diagnostics indication LED | | |
| Group error SF (red) | Yes | |
| 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 | 4 000 V DC | |
| connection method | | |
| required front connector | 20-pin | |
| Dimensions | | |
| Width | 80 mm | |
| Height | 125 mm | |
| Depth | 117 mm | |
| Weights | | |
| Weight, approx. | 500 g | |
| <u> </u> | • | |

last modified: 8/16/2023 🖸