

SIMATIC S7-300, Digital input SM 321, Isolated 16 DI, 120/230 V AC, 1x 20-pole



Figure similar

| Supply voltage | |
|---|--|
| Load voltage L1 | |
| • Rated value (AC) | 230 V; 120/230 V AC; all load voltages must have the same phase. |
| Input current | |
| from backplane bus 5 V DC, max. | 29 mA |
| Power loss | |
| Power loss, typ. | 4.9 W |
| Digital inputs | |
| Number of digital inputs | 16 |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes |
| Number of simultaneously controllable inputs | |
| horizontal installation | |
| — up to 40 °C, max. | 16 |
| — up to 60 °C, max. | 16 |

| | |
|---|--|
| vertical installation | |
| — up to 40 °C, max. | 16 |
| Input voltage | |
| • Type of input voltage | AC |
| • Rated value (AC) | 230 V; 120/230 V AC (47 ... 63 Hz) |
| • for signal "0" | 0 to 40V |
| • for signal "1" | 79 to 264V |
| Input current | |
| • for signal "1", typ. | 6.5 mA; (120 V, 60 Hz), 16 mA (230 V, 50 Hz) |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — parameterizable | No |
| — at "0" to "1", min. | 25 ms |
| — at "0" to "1", max. | 25 ms |
| — at "1" to "0", max. | 25 ms |
| Cable length | |
| • shielded, max. | 1 000 m |
| • unshielded, max. | 600 m |
| Encoder | |
| Connectable encoders | |
| • 2-wire sensor | Yes |
| — permissible quiescent current (2-wire sensor), max. | 2 mA |
| Interrupts/diagnostics/status information | |
| Alarms | No |
| Diagnostics function | No |
| Alarms | |
| • Diagnostic alarm | No |
| • Hardware interrupt | No |
| Diagnostics indication LED | |
| • Group error SF (red) | No |
| • Status indicator digital input (green) | Yes |
| Potential separation | |
| Potential separation digital inputs | |
| • between the channels | No |
| • between the channels, in groups of | 4 |
| • 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 | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 240 g |
| last modified: | 11/24/2020 |