

SIMATIC S7-300, Digital input SM 321, isolated, 8 DI, 120 V/230 V AC, 1x 40-pole, with single rooting/channel



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.                                 | 100 mA   |
| Power loss  |  |
| Power loss, typ.  | 4.9 W  |
| Digital inputs  |  |
| Number of digital inputs  | 8  |
| Input characteristic curve in accordance with IEC 61131, type 1 | Yes  |
| Number of simultaneously controllable inputs                    |  |
| horizontal installation   |  |
| — up to 60 °C, max.   | 8  |
| vertical installation   |  |

|   |                                    |
|---|------------------------------------|
| — up to 40 °C, max.                                   | 8                                  |
| <b>Input voltage</b>                                  |                                    |
| • Type of input voltage                               | AC                                 |
| • Rated value (AC)                                    | 120 V; 120/230 V AC (47 ... 63 Hz) |
| • for signal "0"                                      | 0 to 40V                           |
| • for signal "1"                                      | 79 to 264V                         |
| <b>Input current</b>                                  |                                    |
| • for signal "1", typ.                                | 7.5 mA; (120 V); 17.3 mA (230 V)   |
| <b>Input delay (for rated value of input voltage)</b> |                                    |
| for standard inputs                                   |                                    |
| — parameterizable                                     | No                                 |
| — at "0" to "1", max.                                 | 25 ms                              |
| — at "1" to "0", max.                                 | 25 ms                              |
| <b>Cable length</b>                                   |                                    |
| • shielded, max.                                      | 1 000 m                            |
| • unshielded, max.                                    | 600 m                              |
| <b>Encoder</b>  |                                    |
| <b>Connectable encoders</b>                           |                                    |
| • 2-wire sensor                                       | Yes                                |
| — permissible quiescent current (2-wire sensor), max. | 2 mA                               |
| <b>Interrupts/diagnostics/status information</b>      |                                    |
| <b>Alarms</b>   | No                                 |
| <b>Diagnostics function</b>                           | No                                 |
| <b>Alarms</b>   |                                    |
| • Diagnostic alarm                                    | No                                 |
| • Hardware interrupt                                  | No                                 |
| <b>Diagnostics indication LED</b>                     |                                    |
| • Group error SF (red)                                | No                                 |
| • Status indicator digital input (green)              | Yes                                |
| <b>Potential separation</b>                           |                                    |
| <b>Potential separation digital inputs</b>            |                                    |
| • between the channels                                | Yes                                |
| • between the channels, in groups of                  | 1                                  |
| • between the channels and backplane bus              | Yes; Optocoupler                   |
| <b>Isolation</b>                                      |                                    |
| Isolation tested with                                 | 1 500 V AC                         |
| <b>Connection method</b>                              |                                    |
| required front connector                              | 40-pin                             |
| <b>Dimensions</b>                                     |                                    |

|                       |            |
|-----------------------|------------|
| Width                 | 40 mm      |
| Height                | 125 mm     |
| Depth                 | 120 mm     |
| <b>Weights</b>        |            |
| Weight, approx.       | 240 g      |
| <b>last modified:</b> | 12/10/2020 |