



*** spare part *** SIMATIC S7-300, digital input SM 321, isolated 16 DI, 120/230 V AC, 1x 20-pole

Figure similar

| | |
|---|--|
| Supply voltage | |
| Load voltage L1 | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> Type of input voltage Rated value (AC) for signal "0" for signal "1" | AC 230 V; 120/230 V AC (47 ... 63 Hz) 0 to 40V 79 to 264V |
| Input current | |
| <ul style="list-style-type: none"> 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 | |
| <ul style="list-style-type: none"> shielded, max. unshielded, max. | 1 000 m 600 m |
| Encoder | |
| Connectable encoders | |
| <ul style="list-style-type: none"> 2-wire sensor permissible quiescent current (2-wire sensor), max. | Yes 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 |

| | Version | Classification |
|--------|---------|----------------|
| eClass | 14 | 27-24-22-04 |
| eClass | 12 | 27-24-22-04 |
| eClass | 9.1 | 27-24-22-04 |
| eClass | 9 | 27-24-22-04 |
| eClass | 8 | 27-24-22-04 |
| eClass | 7.1 | 27-24-22-04 |
| eClass | 6 | 27-24-22-04 |
| ETIM | 9 | EC001419 |
| ETIM | 8 | EC001419 |
| ETIM | 7 | EC001419 |
| IDEA | 4 | 3566 |
| UNSPSC | 15 | 32-15-17-05 |

| Approvals / Certificates | | | |
|--------------------------|-----|---|-------------|
| General Product Approval | EMV | Radio Equipment Type Approval Certificate | Environment |



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Environment



last modified:

3/12/2024