SIEMENS

Data sheet

6ES7321-1BH02-0AA0



SIMATIC S7-300, Digital input SM 321, isolated, 16 DI, 24 V DC, 1x 20-pole

Figure similar

| Supply voltage Load voltage L+ • Rated value (DC) 24 V • permissible range, lower limit (DC) 20.4 V • permissible range, upper limit (DC) 28.8 V Input current 10 mA Power loss 10 mA Power loss, typ. 3.5 W Digital inputs 16 Input characteristic curve in accordance with IEC 61131, type 1 Yes Number of simultaneously controllable inputs 16 nort of simultaneously controllable inputs 16 - up to 40 °C, max. 16 - up to 60 °C, max. 16 - up to 60 °C, max. 16 - up to 60 °C, max. 16 - up to 40 °C, max. 16 |
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| Rated value (DC) Permissible range, lower limit (DC) 20.4 V permissible range, upper limit (DC) 28.8 V Input current from backplane bus 5 V DC, max. Power loss Power loss, typ. 3.5 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. up to 60 °C, max. Input voltage |
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| permissible range, upper limit (DC) 28.8 V Input current from backplane bus 5 V DC, max. Power loss Power loss, typ. Power loss, typ. Sumber of digital inputs Number of digital inputs Number of simultaneously controllable inputs horizontal installation - up to 40 °C, max. 16 vertical installation - up to 40 °C, max. 16 Input voltage |
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| from backplane bus 5 V DC, max. 10 mA Power loss 3.5 W Digital inputs 3.5 W Number of digital inputs 16 Input characteristic curve in accordance with IEC 61131, type 1 Yes Number of simultaneously controllable inputs 16 horizontal installation 16 — up to 40 °C, max. 16 — up to 60 °C, max. 16 vertical installation 16 — up to 40 °C, max. 16 Input to 40 °C, max. 16 Input to 40 °C, max. 16 Up to 40 °C, max. 16 Input to 40 °C, max. 16 |
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| Number of simultaneously controllable inputs horizontal installation |
| horizontal installation |
| up to 40 °C, max. 16 |
| |
| vertical installation — up to 40 °C, max. 16 Input voltage |
| — up to 40 °C, max. 16 Input voltage |
| Input voltage |
| |
| Type of input voltage DC |
| |
| • Rated value (DC) 24 V |
| • for signal "0" -30 to +5 V |
| • for signal "1" 13 to 30V |
| Input current |
| • for signal "1", typ. 7 mA |
| Input delay (for rated value of input voltage) |
| for standard inputs |
| parameterizable No |
| - at "0" to "1", min. 1.2 ms |
| at "0" to "1", max. 4.8 ms |
| - at "1" to "0", min. 1.2 ms |
| - at "1" to "0", max. 4.8 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. 1.5 mA |

| Interrupts/diagnostics/status information | |
|--|------------------|
| Alarms | No |
| Diagnostics function | No |
| Alarms | |
| Diagnostic alarm | No |
| Hardware interrupt | No |
| Diagnostics indication LED | |
| Status indicator digital input (green) | Yes |
| Potential separation | |
| Potential separation digital inputs | |
| between the channels | No |
| between the channels, in groups of | 16 |
| between the channels and backplane bus | Yes; Optocoupler |
| Isolation | |
| Isolation tested with | 500 V DC |
| connection method | |
| required front connector | 20-pin |
| Dimensions | |
| Width | 40 mm |
| Height | 125 mm |
| Depth | 120 mm |
| Weights | |
| Weight, approx. | 200 g |

last modified:

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