SIEMENS

## Data sheet 6ES7421-1FH20-0AA0



SIMATIC S7-400, digital input SM 421, isolated 16 DI; UC 120/230V Inputs according to IEC1131-2 Type 2

| | |
|---|---|
| **Input current** | |
| from backplane bus 5 V DC, max. | 80 mA |
| **Power loss** | |
| Power loss, typ. | 12 W |
| **Digital inputs** | |
| Number of digital inputs | 16 |
| Input characteristic according to IEC 61131 | Type 2 |
| Number of simultaneously controllable inputs | |
| ● Number of simultaneously controllable inputs | 16 |
| Input voltage | |
| ● Type of input voltage | AC/DC |
| ● Rated value (UC) | 230 V; 120/230 V UC (47 ... 63 Hz) |
| ● for signal "0" | 0 to 40 V AC/ -40 to +40 V DC |
| ● for signal "1" | 74 to 264 V AC; 80 to 264 V DC, -80 to -264 V |
| Input current | |
| ● for signal "0", min. | 0 mA; AC: 0 mA; DC: 0 mA |
| ● for signal "0", max. (permissible quiescent current) | 6 mA; AC: 6 mA; DC: 2 mA |
| ● for signal "1", typ. | 10 mA; at 120 V: 10 mA AC, 1.8 mA DC; at 230 V: 14 mA AC, 2 mA DC |
| Input delay (for rated value of input voltage) | |
| for standard inputs | |
| — at "0" to "1", max. | 20 ms; AC: 20 ms; DC: 15 ms |
| — at "1" to "0", max. | 30 ms; AC: 30 ms; DC: 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. | 5 mA; AC: 5 mA |
| **Interrupts/diagnostics/status information** | |
| Diagnostics function | No |
| Diagnostics indication LED | |
| ● Status indicator digital input (green) | Yes |
| **Potential separation** | |
| Potential separation digital inputs | |
| ● between the channels | Yes |
| ● between the channels, in groups of | 4 |
| ● between the channels and backplane bus | Yes |
| **Isolation** | |
| Isolation tested with | 1 500 V AC |


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| Dimensions | |
|---|---|
| Width | 25 mm |
| Height | 290 mm |
| Depth | 210 mm |
| **Weights** | |
| Weight, approx. | 650 g |

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