

Siemens 6ES7421-1FH20-0AA0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	2

Description

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

Dimensions

Width 25 mm

Height 290 mm

Depth 210 mm

Weights

Weight, approx. 650 g

www.AutoDCSTech.com