

Siemens 6ES7421-7DH00-0AB0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	of input voltage AC/DC

Description

6ES7421-7DH00-0AB0

SIMATIC S7-400, digital input SM 421, isolated 16 DI; UC 24 - 60 V, alarm, diagnostics

Input current

from backplane bus 5 V DC, max. 150 mA

Power loss

Power loss, typ. 8 W; 3.5 W (24 V DC); 6.5 W (48 V DC); 8.0 W (60 V DC)

Digital inputs

Number of digital inputs 16

Number of simultaneously controllable inputs

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Input voltage

- Type of input voltage AC/DC
- Rated value (UC) 24 V; 24 V UC to 60 V UC (47 ... 63 Hz)
- for signal "0" -6 to +6 V DC/ 0 to 5 V AC
- for signal "1" 15 to 72 V DC; -15 to -72 V DC; 15 to 60 V AC

Input current

- for signal "1", typ. 4 mA; 4 to 10 mA

Input delay (for rated value of input voltage)

for standard inputs

— parameterizable Yes

— Rated value 0.5 ms; 0.5 / 3 / 10 / 20 ms

Encoder connection

- Fixed current limitation for wire-break monitoring, min. 18 k Ω ; 18 kohms: Rated voltage 24 V (15 to 35 V); 39 kohms: Rated voltage 48

V (30 to 60 V)

- Fixed current limitation for wire-break monitoring, max. 56 k Ω ; Rated voltage 60 V (50 to 72 V)

Cable length

- shielded, max. 1 000 m
- unshielded, max. 600 m; 600 m: 3, 10, 20 ms; 100 m: 0,5 ms

Encoder

Connectable encoders

- 2-wire sensor Yes

— permissible quiescent current (2-wire sensor), max. 0.5 mA; 0.5 to 2 mA

Interrupts/diagnostics/status information

Diagnostics function Yes; Parameterizable

Alarms

- Diagnostic alarm Yes; Parameterizable

- Hardware interrupt Yes; Parameterizable

Diagnoses

- Diagnostic information readable Yes; possible
- Wire-break Yes; $I > 0.7 \text{ mA}$

Diagnostics indication LED

- Status indicator digital input (green) Yes

- Channel fault indicator F (red) No

Potential separation

Potential separation digital inputs

- between the channels Yes
- between the channels, in groups of 1
- 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. 600 g

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