

Siemens 6ES7321-7BH01-0AB0 Manual

Brand	Siemens
Product Series	Siemens
Product Type	of output voltage L+ (-2.5 V)

Description

6ES7321-7BH01-0AB0

SIMATIC S7-300, Digital input SM 321, isolated, 16 DI; 24 V DC, 1x 20-pole, process interrupt, diagnostics, suitable for isochronous mode

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
- Reverse polarity protection Yes

Input current

from load voltage L+ (without load) max. 90 mA

from backplane bus 5 V DC, max. 130 mA

Encoder supply

Number of outputs 2

Type of output voltage L+ (-2.5 V)

Short-circuit protection Yes; Electronic

additional (redundant) feed Yes

Output current

- Rated value 120 mA
- permissible range, lower limit 0 mA
- permissible range, upper limit 150 mA

Power loss

Power loss, typ. 4 W

Digital inputs

Number of digital inputs 16

Input characteristic curve in accordance with IEC 61131, type 2 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

- 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 Yes; 0.1 / 0.5 / 3 / 15 / 20 ms

Encoder connection

- Fixed current limitation for wire-break monitoring, min. 10 k Ω
- Fixed current limitation for wire-break monitoring, max. 18 k Ω

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. 2 mA

Interrupts/diagnostics/status information

Alarms Yes

Diagnostics function Yes; Parameterizable

Alarms

- Diagnostic alarm Yes; Parameterizable
- Hardware interrupt Yes; Parameterizable

Diagnoses

- Diagnostic information readable Yes
- Wire-break Yes; to $I < 1$ mA

Diagnostics indication LED

- Group error SF (red) Yes
- Status indicator digital input (green) Yes
- Encoder supply Vs (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

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