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Data sheet 6ES7321-1BP00-0AA0

SIMATIC S7-300 digital input SM 321, Isolated in groups of 16, 64 DI, 24 V DC, 3ms, Sink/source input Terminal blocks 6ES7392-1.N00-0AA0 and cable 6ES7392-4...0-0AA0 required



Supply voltage	
Load voltage L+	
• Rated value (DC)	24 V
• Reverse polarity protection	Yes
Input current	
from backplane bus 5 V DC, max.	100 mA
Power loss	
Power loss, typ.	7 W
Digital inputs	
Number of digital inputs	64
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
all mounting positions	
— up to 40 °C, max.	64
— up to 60 °C, max.	32
horizontal installation	
— up to 40 °C, max.	64

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— up to 60 °C, max.	32
vertical installation	
— up to 40 °C, max.	32
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.	4.2 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— Rated value	4.2 ms
— 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	No

Interrupts/diagnostics/status information

Alarms	No
Diagnostics function	No
Alarms	
• Diagnostic alarm	No
• Hardware interrupt	No
Diagnostic messages	
• Diagnostic information readable	No
• Wire-break	No
Diagnostics indication LED	
• Group error SF (red)	No
• Status indicator digital input (green)	Yes
• Encoder supply Vs (green)	No

Potential separation

Potential separation digital inputs	
• between the channels	No
• between the channels, in groups of	16

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• between the channels and backplane bus	Yes; Optocoupler

Isolation	
Isolation tested with	500 V DC

Connection method	
required front connector	Cable: 6ES7392-4Bxx0-0AA0 terminal blocks: 6ES7392-1xN00-0AA0

Dimensions	
Width	40 mm
Height	125 mm
Depth	112 mm

Weights	
Weight, approx.	230 g

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