SIEMENS

Data sheet

6ES7321-1BH02-0AA0



SIMATIC S7-300, Digital input SM 321, isolated, 16 DI, 24 V DC, 1x 20-pole

Figure similar

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 Input current 10 mA Power loss 10 mA Power loss, typ. 3.5 W Digital inputs 16 Input characteristic curve in accordance with IEC 61131, type 1 Yes Number of simultaneously controllable inputs 16 nort of simultaneously controllable inputs 16 - up to 40 °C, max. 16 - up to 60 °C, max. 16 - up to 60 °C, max. 16 - up to 60 °C, max. 16 - up to 40 °C, max. 16
 Rated value (DC) Permissible range, lower limit (DC) 20.4 V permissible range, upper limit (DC) 28.8 V Input current from backplane bus 5 V DC, max. Power loss Power loss, typ. 3.5 W Digital inputs Number of digital inputs 16 Input characteristic curve in accordance with IEC 61131, type 1 Yes Number of simultaneously controllable inputs horizontal installation up to 40 °C, max. up to 60 °C, max. Input voltage
permissible range, upper limit (DC) 28.8 V Input current from backplane bus 5 V DC, max. Power loss Power loss, typ. Power loss, typ. Sumber of digital inputs Number of digital inputs Number of simultaneously controllable inputs horizontal installation - up to 40 °C, max. 16 vertical installation - up to 40 °C, max. 16 Input voltage
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Power loss, typ. 3.5 W Digital inputs 16 Number of digital inputs 16 Input characteristic curve in accordance with IEC 61131, type 1 Yes Number of simultaneously controllable inputs Yes horizontal installation
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Number of simultaneously controllable inputs horizontal installation
horizontal installation
up to 40 °C, max. 16
vertical installation — up to 40 °C, max. 16 Input voltage
— up to 40 °C, max. 16 Input voltage
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 No
- 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 Yes
- permissible quiescent current (2-wire sensor), max. 1.5 mA

Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnostics indication LED	
 Status indicator digital input (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

last modified:

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