## **SIEMENS**

## **Data sheet**

## 6ES7321-1BH50-0AA0



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

Figure similar

Supply voltage		
Load voltage L+		
<ul><li>Rated value (DC)</li></ul>	24 V	
<ul> <li>permissible range, lower limit (DC)</li> </ul>	20.4 V	
<ul> <li>permissible range, upper limit (DC)</li> </ul>	28.8 V	
Input current		
from backplane bus 5 V DC, max.	10 mA	
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.	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"	-5 to +30V	
• 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		
<ul><li>shielded, max.</li></ul>	1 000 m	
• unshielded, max.	600 m	
Encoder		
Connectable encoders		

• 2-wire sensor	Yes	
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	1.5 mA	
Interrupts/diagnostics/status information		
Alarms	No	
Diagnostics function	No	
Alarms		
<ul> <li>Diagnostic alarm</li> </ul>	No	
Hardware interrupt	No	
Diagnostics indication LED		
<ul> <li>Status indicator digital input (green)</li> </ul>	Yes	
Potential separation		
Potential separation digital inputs		
<ul> <li>between the channels</li> </ul>	No	
<ul> <li>between the channels, in groups of</li> </ul>	16	
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler	
Isolation		
Isolation tested with	500 V DC	
connection method / header		
required front connector	20-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	200 g	

last modified:

12/16/2020 🗗