## **SIEMENS**

## **Data sheet**

6ES7321-1EL00-0AA0



SIMATIC S7-300, Digital input SM 321, isolated, 32 DI, 120 V AC, 1x 40-pole

Figure similar

Supply voltage	
Load voltage L1	
<ul> <li>Rated value (AC)</li> </ul>	120 V
Input current	
from backplane bus 5 V DC, max.	16 mA
Power loss	
Power loss, typ.	4 W
Digital inputs	
Number of digital inputs	32
Input characteristic curve in accordance with IEC 61131, type 2	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	32
— up to 60 °C, max.	24
vertical installation	
— up to 40 °C, max.	32
Input voltage	
<ul> <li>Type of input voltage</li> </ul>	AC
Rated value (AC)	120 V; 47 63 Hz
● for signal "0"	0 to 20V
● for signal "1"	74 to 132V
Input current	
• for signal "1", typ.	21 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	15 ms
— at "1" to "0", max.	25 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.	4 mA
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	

Diagnostic alarm	No
Hardware interrupt	No
Diagnostics indication LED	
<ul> <li>Group error SF (red)</li> </ul>	No
<ul> <li>Status indicator digital input (green)</li> </ul>	Yes; per channel
Potential separation	
Potential separation digital inputs	
<ul> <li>between the channels</li> </ul>	No
<ul> <li>between the channels, in groups of</li> </ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	2 500 V DC
connection method	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	300 g

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