## SIEMENS

## Data sheet

## 6ES7321-1FF10-0AA0



SIMATIC S7-300, Digital input SM 321, isolated, 8 DI, 120 V/230 V AC, 1x 40-pole, with single rooting/channel

Figuresimilar	Fi	gure	sin	milar
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Supply voltage				
Load voltage L1				
Rated value (AC)	230 V; 120/230 V AC; all load voltages must have the same phase.			
Input current				
from backplane bus 5 V DC, max.	100 mA			
Power loss				
Power loss, typ.	4.9 W			
Digital inputs				
Number of digital inputs	8			
Input characteristic curve in accordance with IEC 61131, type 1	Yes			
Number of simultaneously controllable inputs				
horizontal installation				
— up to 60 °C, max.	8			
vertical installation				
— up to 40 °C, max.	8			
Input voltage				
Type of input voltage	AC			
Rated value (AC)	120 V; 120/230 V AC (47 63 Hz)			
• for signal "0"	0 to 40V			
<ul> <li>for signal "1"</li> </ul>	79 to 264V			
Input current				
<ul> <li>for signal "1", typ.</li> </ul>	7.5 mA; (120 V); 17.3 mA (230 V)			
Input delay (for rated value of input voltage)				
for standard inputs				
— parameterizable	No			
— at "0" to "1", max.	25 ms			
— at "1" to "0", max.	25 ms			
Cable length				
<ul> <li>shielded, max.</li> </ul>	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	No			
Diagnostics function	No			
Alarms				
Diagnostic alarm	No			

Hardware interrupt	No
Diagnostics indication LED	
Group error SF (red)	No
<ul> <li>Status indicator digital input (green)</li> </ul>	Yes
Potential separation	
Potential separation digital inputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	1
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	1 500 V AC
connection method	
required front connector	40-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	240 g

last modified:

1/16/2021 🖸