## SIEMENS

## Data sheet

## 6ES7321-1FH00-0AA0



\*\*\* spare part \*\*\* SIMATIC S7-300, digital input SM 321, isolated 16 DI, 120/230 V AC, 1x 20-pole

Fig	gure	simi	ar

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.	29 mA		
Power loss			
Power loss, typ.	4.9 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			
<ul> <li>Type of input voltage</li> </ul>	AC		
<ul> <li>Rated value (AC)</li> </ul>	230 V; 120/230 V AC (47 63 Hz)		
• for signal "0"	0 to 40V		
• for signal "1"	79 to 264V		
Input current			
<ul> <li>for signal "1", typ.</li> </ul>	6.5 mA; (120 V, 60 Hz), 16 mA (230 V, 50 Hz)		
Input delay (for rated value of input voltage)			
for standard inputs			
— parameterizable	No		
— at "0" to "1", min.	25 ms		
— 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		
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	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>	No
<ul> <li>between the channels, in groups of</li> </ul>	4
<ul> <li>between the channels and backplane bus</li> </ul>	Yes; Optocoupler
Isolation	
Isolation tested with	4 000 V DC
connection method	
required front connector	20-pin
Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	240 g

last modified:

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