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			
 for signal "1" 	79 to 264V			
Input current				
 for signal "1", typ. 	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				
 shielded, max. 	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
 Status indicator digital input (green) 	Yes
Potential separation	
Potential separation digital inputs	
 between the channels 	Yes
 between the channels, in groups of 	1
 between the channels and backplane bus 	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:

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