



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

Figure similar

Supply voltage	
Load voltage L1	
<ul style="list-style-type: none"> Rated value (AC) 	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 style="list-style-type: none"> Type of input voltage Rated value (AC) for signal "0" for signal "1" 	AC 120 V; 47 ... 63 Hz 0 to 20V 74 to 132V
Input current	
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> shielded, max. unshielded, max. 	1 000 m 600 m
Encoder	
Connectable encoders	
<ul style="list-style-type: none"> 2-wire sensor permissible quiescent current (2-wire sensor), max. 	Yes 4 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; per channel
Potential separation	
Potential separation digital inputs	
• between the channels	No
• between the channels, in groups of	8
• between the channels and backplane bus	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

last modified: 8/16/2023 