

SIMATIC S7-300, DIGITAL INPUT SM 321, OPTICALLY ISOLATED,
8 DI, 120V/230V AC, 1 X 20 PIN



Figure similar

Supply voltage	
Load voltage L1	
• Rated value (AC)	230 V; 120/230V AC
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	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) • for signal "0" • for signal "1" • Frequency range	230 V; 120/230V AC 0 to 40V 79 to 264V 47 ... 63 Hz
Input current	
• for signal "1", typ.	6.5 mA; (120 V); 11 mA (230 V)
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", max.	25 ms
Cable length	
• shielded, max. • unshielded, max.	1 000 m 600 m
Encoder	
Connectable encoders	
• 2-wire sensor — permissible quiescent current (2-wire sensor), max.	Yes 2 mA
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Alarms	
• Diagnostic alarm • Hardware interrupt	No No
Diagnostic messages	
• Diagnostic functions	No
Diagnostics indication LED	
• Group error SF (red) • Status indicator digital input (green)	No Yes
Potential separation	
Potential separation digital inputs	
• between the channels • between the channels, in groups of • between the channels and backplane bus	No 2 Yes; Optocoupler
Isolation	
Isolation tested with	4000 VDC
Connection method	
required front connector	20-pin

Dimensions	
Width	40 mm
Height	125 mm
Depth	120 mm
Weights	
Weight, approx.	240 g
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