SIEMENS

Data sheet

6ES7321-1BL00-0AA0

SIMATIC S7-300, Digital input SM 321, Isolated 32 DI, 24 V DC, 1x 40-pole

Supply voltage	SIMATIC S7-300, Digital input SM 321, Isolated 32 DI, 24 V DC, 1x 40-pol-
Load voltage L+	
Rated value (DC)	24 V
 Pared value (DC) permissible range, lower limit (DC) 	20.4 V
permissible range, lower limit (DC) permissible range, upper limit (DC)	28.8 V
	20.0 V
Input current	45 4
from backplane bus 5 V DC, max.	15 mA
Power loss	0.5W
Power loss, typ.	6.5 W
Digital inputs	
Number of digital inputs	32
Input characteristic curve in accordance with IEC 61131, type 1	Yes
Number of simultaneously controllable inputs	
horizontal installation	
— up to 40 °C, max.	32
— up to 60 °C, max.	16
vertical installation	
— up to 40 °C, max.	32
Input voltage	
 Type of input voltage 	DC
Rated value (DC)	24 V
● for signal "0"	-30 to +5 V
● for signal "1"	13 to 30V
Input current	
● for signal "1", typ.	7 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— parameterizable	No
— at "0" to "1", min.	1.2 ms
— at "0" to "1", max.	4.8 ms
— at "1" to "0", min.	1.2 ms
— at "1" to "0", max.	4.8 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. 	1.5 mA
Interrupts/diagnostics/status information	
Alarms	No
Diagnostics function	No
Alarms	
Diagnostic alarm	No
Hardware interrupt	No
Diagnostics indication LED	
Status indicator digital input (green)	Yes
Potential separation	
Potential separation digital inputs	

between the channelsbetween the channels, in groups of	No 16	
 between the channels and backplane bus 	Yes; Optocoupler	
Isolation		
Isolation tested with	500 V DC	
connection method / header		
required front connector	40-pin	
Dimensions		
Width	40 mm	
Height	125 mm	
Depth	120 mm	
Weights		
Weight, approx.	260 g	

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