Data sheet

6ES7421-1BL01-0AA0



SIMATIC S7-400, digital input SM 421, isolated 32 DI; 24 V DC

Input current		
from backplane bus 5 V DC, max.	20 mA	
Power loss		
Power loss, typ.	6 W	
Digital inputs		
Number of digital inputs	32	
Input characteristic according to IEC 61131	Type 1	
Number of simultaneously controllable inputs		
 Number of simultaneously controllable inputs 	32	
Input voltage		
 Type of input voltage 	DC	
 Rated value (DC) 	24 V	
• for signal "0"	-30 V DC to +5 V DC	
• for signal "1"	13 V DC to 30 V DC	
Input current		
• for signal "0", max. (permissible quiescent current)	1.3 mA	
• for signal "1", typ.	7 mA	
Input delay (for rated value of input voltage)		
for standard inputs		
— 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		
Diagnostics function	No	
Diagnostics indication LED		
Status indicator digital input (green)	Yes	
Potential separation		
Potential separation digital inputs		
 between the channels 	No	
 between the channels, in groups of 	32	
between the channels and backplane bus	Yes	
Isolation		

Isolation tested with	500 V AC/707 V DC, type test
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	500 g

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