SIEMENS

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
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

32 Yes
500 V DC
25 mm
290 mm
210 mm

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