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
Input characteristic according to IEC 61131	Туре 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

last modified:

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