**Data sheet** 

6ES7421-1BL01-0AA0

- inconstruction

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		
<ul> <li>Number of simultaneously controllable inputs</li> </ul>	32	
Input voltage		
<ul> <li>Type of input voltage</li> </ul>	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		
<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	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		
<ul><li>shielded, max.</li></ul>	1 000 m	
<ul><li>unshielded, max.</li></ul>	600 m	
Encoder		
Connectable encoders		
• 2-wire sensor	Yes	
<ul> <li>permissible quiescent current (2-wire sensor), max.</li> </ul>	1.5 mA	
Interrupts/diagnostics/status information		
Diagnostics function	No	
Diagnostics indication LED		
<ul> <li>Status indicator digital input (green)</li> </ul>	Yes	
Potential separation		
Potential separation digital inputs		
• between the channels	No	
<ul> <li>between the channels, in groups of</li> </ul>	32	
<ul> <li>between the channels and backplane bus</li> </ul>	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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