## **SIEMENS**

## **Data sheet**

6ES7421-1EL00-0AA0



SIMATIC S7-400, digital input SM 421, isolated 32 DI; 120 V DC/AC

Input current	
from backplane bus 5 V DC, max.	200 mA
Power loss	
Power loss, typ.	6.5 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>	AC/DC
<ul> <li>Rated value (UC)</li> </ul>	120 V; 47 63 Hz
• for signal "0"	0 to 20 V UC
• for signal "1"	79 to 132 V AC; 80 to 132 V DC
Input current	
• for signal "0", min.	0 mA
<ul> <li>for signal "0", max. (permissible quiescent current)</li> </ul>	1 mA
• for signal "1", typ.	2 mA; 2 to 5 mA
Input delay (for rated value of input voltage)	
for standard inputs	
— at "0" to "1", min.	5 ms
— at "0" to "1", max.	25 ms; 10 / 20 ms
— at "1" to "0", min.	5 ms
— at "1" to "0", max.	25 µs
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 mA
Interrupts/diagnostics/status information	
Diagnostics indication LED	
<ul> <li>Status indicator digital input (green)</li> </ul>	Yes
Potential separation	
Potential separation digital inputs	
<ul> <li>between the channels</li> </ul>	Yes
<ul> <li>between the channels, in groups of</li> </ul>	8
<ul> <li>between the channels and backplane bus</li> </ul>	Yes
Isolation	

Isolation tested with	1 500 V AC	
Dimensions		
Width	25 mm	
Height	290 mm	
Height Depth	210 mm	
Weights		
Weight, approx.	600 g	

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