SIEMENS

Data sheet

6ES7421-1FH20-0AA0



SIMATIC S7-400, digital input SM 421, isolated 16 DI; UC 120/230V Inputs according to IEC1131-2 Type 2

Input current		
from backplane bus 5 V DC, max.	80 mA	
Power loss		
Power loss, typ.	12 W	
Digital inputs		
Number of digital inputs	16	
Input characteristic according to IEC 61131	Type 2	
Number of simultaneously controllable inputs		
 Number of simultaneously controllable inputs 	16	
Input voltage		
 Type of input voltage 	AC/DC	
Rated value (UC)	230 V; 120/230 V UC (47 63 Hz)	
• for signal "0"	0 to 40 V AC/ -40 to +40 V DC	
• for signal "1"	74 to 264 V AC; 80 to 264 V DC, -80 to -264 V	
Input current		
• for signal "0", min.	0 mA; AC: 0 mA; DC: 0 mA	
 for signal "0", max. (permissible quiescent current) 	6 mA; AC: 6 mA; DC: 2 mA	
• for signal "1", typ.	10 mA; at 120 V: 10 mA AC, 1.8 mA DC; at 230 V: 14 mA AC, 2 mA DC	
Input delay (for rated value of input voltage)		
for standard inputs		
— at "0" to "1", max.	20 ms; AC: 20 ms; DC: 15 ms	
— at "1" to "0", max.	30 ms; AC: 30 ms; DC: 25 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.	5 mA; AC: 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	Yes	
 between the channels, in groups of 	4	
 between the channels and backplane bus 	Yes	
Isolation		
Isolation tested with	1 500 V AC	

Dimensions	
25 mm	
290 mm	
210 mm	
650 g	
	290 mm 210 mm

last modified:

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