

SIMATIC S7-400, DIG.INPUT MOD. SM 421, OPTIC. ISOLATED, 16 DI, 120/230V UC INPUTS PER 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
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
• 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
• Frequency range	47 ... 63 Hz
Input current	
• 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
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
Potential separation	
Potential separation digital inputs	
• between the channels, in groups of	4
• between the channels and backplane bus	Yes
Isolation	
Isolation tested with	1500 V AC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weights	
Weight, approx.	650 g
last modified:	10/28/2016