

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
Number of simultaneously controllable inputs	
<ul style="list-style-type: none"> Number of simultaneously controllable inputs 	16
Input voltage	
<ul style="list-style-type: none"> Type of input voltage Rated value (UC) for signal "0" for signal "1" 	AC/DC 230 V; 120/230 V UC (47 ... 63 Hz) 0 to 40 V AC/ -40 to +40 V DC 74 to 264 V AC; 80 to 264 V DC, -80 to -264 V
Input current	
<ul style="list-style-type: none"> for signal "0", max. (permissible quiescent current) for signal "1", typ. 	6 mA; AC: 6 mA; DC: 2 mA 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
Interrupts/diagnostics/status information	
Diagnostic functions	No
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:	07/17/2018