

SIEMENS

Product data sheet

6ES7421-1EL00-0AA0

SIMATIC S7-400,
SM 421 DIGITAL INPUT MODULE, FLOATING,
32 DI, 120V DC/AC

Input current	
from backplane bus 5 V DC, max.	200 mA
Power losses	
Power loss, max.	16 W
Digital inputs	
Number/binary inputs	32
Number of simultaneously controllable inputs	
all mounting positions	
up to 40 °C, max.	32
up to 60 °C, max.	32
Input voltage	
Type of input voltage	AC/DC
Rated value, UC	120 V
for signal "0"	0 to 20 V UC
for signal "1"	79 to 132 V AC; 80 to 132 V DC
Frequency range	47 to 63 Hz
Input current	
for signal "0", max. (permissible quiescent current)	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
Cable length	
Cable length, shielded, max.	1000 m
Cable length unshielded, max.	600 m

Encoder	
Connectable encoders	
2-wire sensor	Yes
Permissible quiescent current (2-wire sensor), max.	1 mA
Galvanic isolation	
Galvanic isolation digital inputs	
between the channels, in groups of	8
between the channels and the backplane bus	Yes
Isolation	
Isolation checked with	1500 V AC
Dimensions	
Width	25 mm
Height	290 mm
Depth	210 mm
Weight	
Weight, approx.	600 g
Status	Jul 17, 2012