SIMATIC S7-400

Product Data Sheet

6ES7421-1FH00-0AA0

SM 421 16-Channel Digital Input Module

ISOLATED DIGITAL INPUTS	NOMINAL INPUT VOLTAGE	LOGIC 1 AC INPUT	LOGIC 1 DC INPUT
16	**120/230 V UC**	**79–264 V AC**	**80–264 V DC**

Siemens 6ES7421-1FH00-0AA0 is the SM 421 16-Channel Digital Input Module for SIMATIC S7-400. The SM 421 receives isolated AC or DC discrete signals in the S7-400 rack.

01 TECHNICAL DATA

Isolated digital inputs	16
Nominal input voltage	120/230 V UC
Logic 1 AC input	79–264 V AC
Logic 1 DC input	80–264 V DC
Logic 0 voltage	0–48 V UC
Input frequency	47–63 Hz
Input delay	5–25 ms
Channel isolation grouping	4 channels
Maximum backplane current	100 mA
Typical power loss	3.5 W

Siemens S7-400 Module Data, section 4.11

02 ADDITIONAL PRODUCT DATA

Isolated digital inputs is specified as 16. The published data also lists 120/230 V UC for nominal input voltage and 79–264 V AC for logic 1 ac input.

03 PRODUCT FUNCTION

The SM 421 receives isolated AC or DC discrete signals in the S7-400 rack. Review the host documentation for the installed SIMATIC S7-400 configuration.

04 SYSTEM COMPATIBILITY

Check input voltage, channel group isolation and simultaneous input limits before assigning field wiring. Compare the project settings with the corresponding product ratings.

05 REFERENCE

Siemens S7-400 Module Data, section 4.11

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