SIMATIC S7-300 SM 321

Product Data Sheet

6ES7321-1CH20-0AA0

High-voltage digital input module

DIGITAL INPUTS	NOMINAL SIGNAL VOLTAGE BAND	INPUT CHARACTERISTIC	MAXIMUM BACKPLANE DEMAND
16	**48-125 V DC**	**IEC 61131 type 1**	**40 mA at 5 V**

Siemens 6ES7321-1CH20-0AA0 is the optically isolated SM 321 digital input module for SIMATIC S7-300. It has sixteen inputs for a nominal 48-125 V DC signal band. A twenty-pin front connector carries the field wiring.

01 TECHNICAL DATA

Digital inputs	16
Nominal signal voltage band	48-125 V DC
Input characteristic	IEC 61131 type 1
Maximum backplane demand	40 mA at 5 V
Typical power loss	4.3 W
Low-state signal	-146 to +15 V DC
High-state signal	30-146 V DC
Typical active input current	3.5 mA
Input delay	0.1-3.5 ms, fixed
Simultaneously active channels	8 at listed mounting conditions; 6 at 146 V / 60 C

Siemens 6ES7321-1CH20-0AA0 original product data, applicable source pages 1, 2, 3.

02 ADDITIONAL PRODUCT DATA

Signal cable length	1000 m shielded; 600 m unshielded
Two-wire sensor leakage	1 mA maximum
Potential groups	8 inputs per group
Isolation type test	1500 V DC
Front connector	20-pin

03 PRODUCT FUNCTION

Inputs are grouped in sets of eight and use a fixed 0.1-3.5 ms delay. Green LEDs show individual channel states. The module has no diagnostic or hardware interrupts, and the permitted number of simultaneously active inputs depends on signal voltage and mounting temperature.

04 SYSTEM COMPATIBILITY

Wire the twenty-pin front connector with the two potential groups of eight. Observe the simultaneous-channel limits at the actual voltage and ambient temperature.

05 REFERENCE

Siemens 6ES7321-1CH20-0AA0 original product data, applicable source pages 1, 2, 3.

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