

SIMATIC S7-300

Product Data Sheet

6ES7321-1FF01-0AA0

SM 321 isolated eight-channel AC input module

DIGITAL INPUTS	RATED INPUT VOLTAGE	INPUT FREQUENCY	SIGNAL 0 VOLTAGE
8	120/230 V AC	47 to 63 Hz	0 to 40 V AC

Siemens 6ES7321-1FF01-0AA0 is a SM 321 isolated eight-channel AC input module in the SIMATIC S7-300 family. It is identified for compatible SIMATIC S7-300 installations and should be selected by its complete order number and documented interface.

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VERIFIED TECHNICAL DATA

Digital inputs	8
Rated input voltage	120/230 V AC
Input frequency	47 to 63 Hz
Signal 0 voltage	0 to 40 V AC
Signal 1 voltage	79 to 264 V AC
Input current at 120 V	6.5 mA typical
Input current at 230 V	11 mA typical
Input delay	25 ms maximum
Backplane current	29 mA maximum at 5 V DC
Typical power loss	4.9 W

ADDITIONAL PRODUCT DATA

Input characteristic	IEC 61131 Type 1
Simultaneously active inputs	8
Front connector	20-pole
Target system	SIMATIC S7-300

DOCUMENTED USE SETTINGS

Power Generation and Grid Infrastructure: Thermal and hydroelectric facilities.

Data Center and Digital Infrastructure: Enterprise data center facilities.

Marine, Shipbuilding and Port Industries: Shipbuilding and marine sites.

SYSTEM COMPATIBILITY

6ES7321-1FF01-0AA0 belongs to the SIMATIC S7-300 family and provides the documented role of SM 321 isolated eight-channel AC input module. Review the exact order number before assigning it to the installed architecture.

PRODUCT EVIDENCE

Siemens manufacturer documentation