SIMATIC S7-400

Product Data Sheet

6ES7421-1BL01-0AA0

SM 421 isolated 32-channel digital input module

DIGITAL INPUTS	RATED INPUT VOLTAGE	INPUT TYPE	SIGNAL 0 VOLTAGE
32	**24 V DC**	**Isolated DC inputs**	**-30 to +5 V DC**

Siemens 6ES7421-1BL01-0AA0 is a SM 421 isolated 32-channel digital input module in the SIMATIC S7-400 family. It is identified for compatible SIMATIC S7-400 installations and should be selected by its complete order number and documented interface.

01 VERIFIED TECHNICAL DATA

Digital inputs	32
Rated input voltage	24 V DC
Input type	Isolated DC inputs
Signal 0 voltage	-30 to +5 V DC
Signal 1 voltage	13 to 30 V DC
Input current at signal 1	7 mA typical
Input delay	1.2 to 4.8 ms
Backplane current	20 mA maximum at 5 V DC
Typical power loss	6 W
Simultaneously active inputs	32

Values follow the applicable manufacturer documents identified on page 2.

02 ADDITIONAL PRODUCT DATA

Shielded cable length	1000 m maximum
Unshielded cable length	600 m maximum
Isolation test voltage	500 V DC
Target system	SIMATIC S7-400

03 DOCUMENTED USE SETTINGS

District Energy and Utility Infrastructure: District heating facilities.

Aerospace and Aviation Industries: Aircraft manufacturing sites.

Power Generation and Grid Infrastructure: Thermal and hydroelectric facilities.

04 SYSTEM COMPATIBILITY

6ES7421-1BL01-0AA0 belongs to the SIMATIC S7-400 family and provides the documented role of SM 421 isolated 32-channel digital input module. Review the exact order number before assigning it to the installed architecture.

05 PRODUCT EVIDENCE

Siemens manufacturer documentation

AMIKON PRODUCT SUPPORT

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