

SIMATIC S7-300 SM 331

Product Data Sheet

6ES7331-7PF11-0AB0

eight-channel isolated thermocouple input module

MODULE TYPE	ANALOG INPUTS	SENSOR TYPE	SUPPORTED THERMOCOUPLES
SM 331 isolated analog input	8	Thermocouples	B, E, J, K, L, N, R, S, T, TXK and TXK(L)

Siemens 6ES7331-7PF11-0AB0 is a eight-channel isolated thermocouple input module in the SIMATIC S7-300 SM 331 family. The complete article identifies its documented electrical, communication and functional arrangement.

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VERIFIED TECHNICAL DATA

Module type	SM 331 isolated analog input
Analog inputs	8
Sensor type	Thermocouples
Supported thermocouples	B, E, J, K, L, N, R, S, T, TXK and TXK(L)
Resolution	16 bit
Conversion time	50 ms
Front connector	One 40-pole connector
Rated load voltage	24 V DC
Reverse-polarity protection	Yes
Load-voltage current	240 mA maximum without load

ADDITIONAL PRODUCT DATA

Backplane current	100 mA maximum at 5 V DC
Power loss	3 W typical
Destruction limit	20 V DC continuous; 75 V DC for 1 s
Galvanic isolation	Isolated

DOCUMENTED USE SETTINGS

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

Power Generation and Grid Infrastructure: Thermal and hydroelectric facilities.

Fire Protection and Life Safety Industries: Commercial fire protection sites.

SYSTEM COMPATIBILITY

6ES7331-7PF11-0AB0 provides the documented role of eight-channel isolated thermocouple input module within SIMATIC S7-300 SM 331. Match the complete article with the installed host and system architecture.

PRODUCT EVIDENCE

Siemens SIMATIC S7-300 SM 331 manufacturer documentation