SIMATIC S7-300

Product Data Sheet

6ES7322-1BH01-0AA0

SM 322 isolated 16-channel digital output module

DIGITAL OUTPUT CHANNELS	RATED LOAD VOLTAGE	RATED OUTPUT CURRENT	GROUP OUTPUT-CURRENT LIMIT
16	**24 V DC; permitted supply range 20.4 to 28.8 V DC**	**0.5 A per channel**	**Horizontal: 4 A to 40 °C, 3 A to 60 °C; vertical: 2 A to 40 °C**

Siemens 6ES7322-1BH01-0AA0 is a SM 322 isolated 16-channel digital output 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.

01 VERIFIED TECHNICAL DATA

Digital output channels	16
Rated load voltage	24 V DC; permitted supply range 20.4 to 28.8 V DC
Rated output current	0.5 A per channel
Group output-current limit	Horizontal: 4 A to 40 °C, 3 A to 60 °C; vertical: 2 A to 40 °C
Output isolation arrangement	Two groups of eight, isolated from the backplane bus
Output voltage at signal 1	At least L+ minus 0.8 V
Minimum load current	5 mA
Residual output current	0.5 mA maximum at signal 0
Output switching frequency	100 Hz resistive; 0.5 Hz inductive DC13; 10 Hz lamp load maximum
Output delay with resistive load	Turn-on 100 microseconds maximum; turn-off 500 microseconds maximum

Values follow the applicable manufacturer documents identified on page 2.

02 ADDITIONAL PRODUCT DATA

Electronic short-circuit protection	Provided; typical response threshold 1 A
Load resistance range	48 ohms to 4 kohms
Backplane current consumption	80 mA maximum
Typical power loss	4.9 W
Front connector	20-pin

03 DOCUMENTED USE SETTINGS

Metals, Mining and Mineral Industries: Steel and nonferrous metal sites.

Commercial and Institutional Buildings: Commercial building facilities.

Rail and Transit Infrastructure: Railway and metro facilities.

04 SYSTEM COMPATIBILITY

6ES7322-1BH01-0AA0 belongs to the SIMATIC S7-300 family and provides the documented role of SM 322 isolated 16-channel digital output 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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