SIMATIC ET 200PA SMART

Product Data Sheet

6ES7650-8DK70-1AA0

Coated Sixteen-channel Digital Input Module

DIGITAL INPUT CHANNELS	RATED INPUT SUPPLY	SIGNAL-ONE RANGE	SIGNAL-ZERO RANGE
16	**24 V DC**	**13 to 30 V DC**	**-30 to +5 V DC**

Siemens 6ES7650-8DK70-1AA0 is the conformal-coated DI 16x24 V DC module for SIMATIC ET 200PA SMART. It provides 16 digital inputs with an IEC 61131 type 2 characteristic and two short-circuit-protected sensor supplies, each assigned to eight channels. The coated article is separately identified from the standard 6ES7650-8DK70-0AA0 version.

01 TECHNICAL DATA

Digital input channels	16
Rated input supply	24 V DC
Signal-one range	13 to 30 V DC
Signal-zero range	-30 to +5 V DC
Typical signal-one current	7 mA
Input characteristic	IEC 61131 type 2
Isolation grouping	16 channels
Sensor supply outputs	2; each serves 8 channels
Rated sensor-supply current	120 mA per output
Permitted sensor-supply current	0 to 150 mA per output

Siemens ET 200PA SMART, A5E34192012-AC, section 10.2.2, coated DI 16x24 V DC.

02 ADDITIONAL PRODUCT DATA

Maximum backplane current	130 mA
Maximum unloaded L+ current	90 mA
Typical power loss	4 W
Input-delay selections	0.1, 0.5, 3, 15 or 20 ms
Diagnostic processing time	40 ms maximum

03 PRODUCT FUNCTION

The module recognizes signal one from 13 to 30 V DC and signal zero from -30 to +5 V DC. Input delay can be set to 0.1, 0.5, 3, 15 or 20 ms. Typical dissipation is 4 W, with maximum backplane current of 130 mA and unloaded L+ current of 90 mA; configurable diagnostics include missing sensor supply and wire break.

04 SYSTEM COMPATIBILITY

Use the 20-pole front connector and preserve the two sensor-supply channel groups, inputs 0 to 7 and 8 to 15. Each supply has a 120 mA rated output and a permitted range up to 150 mA. The manual also documents an additional redundant sensor supply, which must follow its shown circuit rather than an improvised parallel connection.

05 REFERENCE

Siemens ET 200PA SMART, A5E34192012-AC, section 10.2.2, coated DI 16x24 V DC.

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