SIMATIC S7-1200

Product Data Sheet

6ES7211-1AE40-0XB0

CPU 1211C DC/DC/DC Compact Controller

SUPPLY VOLTAGE	TYPICAL CPU CURRENT	MAXIMUM INRUSH CURRENT	MAXIMUM CPU POWER LOSS
24 V DC; permissible 20.4 to 28.8 V	**300 mA; CPU only**	**12 A at 28.8 V**	**8 W**

Siemens 6ES7211-1AE40-0XB0 is the CPU 1211C DC/DC/DC compact controller in the SIMATIC S7-1200 family. A 24 V DC supply powers six digital inputs, four 0.5 A transistor outputs and two integrated 0 to 10 V analog inputs. The CPU provides 50 kB of work memory, 1 MB of integrated load memory and a 10 kB retentive data area for the supported application configuration.

01 TECHNICAL DATA

Supply voltage	24 V DC; permissible 20.4 to 28.8 V
Typical CPU current	300 mA; CPU only
Maximum inrush current	12 A at 28.8 V
Maximum CPU power loss	8 W
Work memory	50 kB RAM
Integrated load memory	1 MB
Retentive data area	10 kB
Bit memory	4 kB
Integrated digital inputs	6; 24 V DC
Integrated transistor outputs	4; 0.5 A each

Siemens 6ES7211-1AE40-0XB0 manufacturer technical data; applicable specification pages.

02 ADDITIONAL PRODUCT DATA

Integrated analog inputs	2; 0 to 10 V
Analog input resolution	10 bits
Analog input conversion	625 microseconds per channel
Integrated Ethernet ports	1; 100 Mbit/s
Communication-module expansion	Maximum 3 CM; plus 1 signal board

03 PRODUCT FUNCTION

One 100 Mbit/s Ethernet port provides the PROFINET connection without an integrated two-port switch. The CPU supports up to three communication modules and one signal board; external signal-module expansion is not supported on this CPU class. Its analog inputs provide 10-bit conversion at 625 microseconds per channel, while configured high-speed functions are available through the assigned digital terminals. The permissible supply range is 20.4 to 28.8 V DC.

04 SYSTEM COMPATIBILITY

Configure the integrated six digital inputs, four transistor outputs and two voltage inputs in the engineering project. Keep analog signals within the 0 to 10 V range and account for 10-bit conversion in scaling. Any high-speed counter or pulse-output assignment must use the corresponding supported terminal and configuration.

05 REFERENCE

Siemens 6ES7211-1AE40-0XB0 manufacturer technical data; applicable specification pages.

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