AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

Siemens 6ES7215-1AF40-0XB0

CPU 1215FC Fail-Safe Controller

CPU TYPE	ONBOARD I/O	DC SUPPLY	DIGITAL I/O
1215FC DC/DC/DC	**Standard, not fail-safe**	**20.4-28.8 V**	**14 DI / 10 DQ**

Siemens 6ES7215-1AF40-0XB0 is the CPU 1215FC DC/DC/DC controller identified in the S7-1200 Functional Safety Manual. It executes a safety program alongside standard control, with fourteen digital inputs, ten transistor outputs and onboard analog input and output channels.

01 VERIFIED TECHNICAL INFORMATION

CPU supply range	20.4 to 28.8 V DC
CPU-only current	500 mA at 24 V DC in the cited maximum-load condition
Integrated digital inputs	14 standard 24 V DC sink/source inputs; not fail-safe
Integrated digital outputs	10 standard sourcing MOSFET outputs; not fail-safe
Maximum output current	0.5 A per standard transistor output under specified conditions
Analog inputs	2 single-ended 0-10 V inputs; 10-bit resolution
Analog outputs	2 current outputs, 0-20 mA; 10-bit resolution

Manufacturer evidence: S7-1200 Functional Safety Manual; exact-model manual section.

02 TECHNICAL INFORMATION CONTINUED

Analog output load impedance	500 ohm maximum
Ethernet ports	2; 10/100 Mbit/s in cited 2015 reference
Signal module capacity	Up to 8 SMs; actual permitted safety/standard configuration must be checked
Communication and board capacity	Up to 3 CMs and one SB, CB or BB in cited reference
5 V bus current available	1600 mA maximum
Sensor supply current	400 mA maximum; not isolated from CPU logic

03 SOURCE AND CONFIGURATION CHECKS

The integrated CPU I/O is standard, not fail-safe; safety-related field functions require the appropriate fail-safe system components and validated configuration. The exact CPU identity, firmware, safety project and acceptance requirements must therefore be considered together when this controller is integrated or replaced.

Packed dimensions and supplied-unit origin must be checked against the actual delivery. No verified gross shipping weight is inferred from module net mass.

Siemens manufacturer reference (scope stated in source)

AMIKON PRODUCT SUPPORT

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