SIMATIC S7-300

Product Data Sheet

6ES7315-1AF03-0AB0

CPU 315 Controller

SUPPLY VOLTAGE	NOMINAL SUPPLY-CURRENT FIGURE	TYPICAL INRUSH CURRENT	TYPICAL POWER LOSS
24 V DC; permissible 20.4 to 28.8 V	**1 A**	**8 A**	**8 W**

Siemens 6ES7315-1AF03-0AB0 is the CPU 315 processor for SIMATIC S7-300. It provides 48 kB of work memory and 80 kB of integrated RAM load memory, with Flash EPROM load-memory expansion up to 4 MB. The CPU supports S7 program execution, rack I/O and MPI access within the documented S7-300 configuration.

01 TECHNICAL DATA

Supply voltage	24 V DC; permissible 20.4 to 28.8 V
Nominal supply-current figure	1 A
Typical inrush current	8 A
Typical power loss	8 W
Work memory	48 kB RAM
Integrated RAM load memory	80 kB
Maximum Flash EPROM expansion	4 MB
Typical bit-operation time	0.3 microseconds
Typical word-operation time	1 microsecond
Typical fixed-point arithmetic	2 microseconds

02 ADDITIONAL PRODUCT DATA

Typical floating-point arithmetic	50 microseconds
S7 counters	64
S7 timers	128
Bit memory	256 bytes
MPI rate	187.5 kbit/s

03 PRODUCT FUNCTION

Typical execution times are 0.3 microseconds for a bit operation, 1 microsecond for a word operation, 2 microseconds for fixed-point arithmetic and 50 microseconds for floating-point arithmetic. The CPU includes 64 S7 counters, 128 S7 timers and 256 bytes of bit memory. Its MPI interface operates at 187.5 kbit/s. A PROFIBUS DP master is not integrated; the applicable separate communication processor is required where that function is needed.

04 SYSTEM COMPATIBILITY

Connect the 24 V DC supply within 20.4 to 28.8 V and include the nominal 1 A current figure and 8 A typical inrush in the power review. Assign rack input and output addresses within the documented peripheral and process-image limits rather than copying a project from a larger CPU.

05 REFERENCE

Siemens 6ES7315-1AF03-0AB0 manufacturer technical data; applicable specification pages.

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