SIMATIC ET 200SP CPU 1512SP F-1 PN

Product Data Sheet

6ES7512-1SK01-0AB0

Fail-safe central processing unit

PROGRAM WORK MEMORY	DATA WORK MEMORY	SUPPLY VOLTAGE	RATED CURRENT CONSUMPTION
300 kbyte	**1 Mbyte**	**24 V DC; permissible 19.2-28.8 V**	**0.6 A**

Siemens 6ES7512-1SK01-0AB0 is the CPU 1512SP F-1 PN for SIMATIC ET 200SP. It combines standard and fail-safe program execution with a PROFINET IRT interface and an integrated three-port switch. The CPU provides 300 kbyte of program work memory and 1 Mbyte of data work memory.

01 TECHNICAL DATA

Program work memory	300 kbyte
Data work memory	1 Mbyte
Supply voltage	24 V DC; permissible 19.2-28.8 V
Rated current consumption	0.6 A
Maximum inrush current	4.7 A
Backplane infeed power	8.75 W
Typical power loss	5.6 W
Bit instruction time	48 ns
Word instruction time	58 ns
Fixed-point arithmetic time	77 ns

02 ADDITIONAL PRODUCT DATA

Floating-point arithmetic time	307 ns
PROFINET interface	IRT with integrated 3-port switch
Memory card capacity	SIMATIC Memory Card required; up to 32 Gbyte
Engineering software	TIA Portal V13 SP1 Update 4 or later per source
BusAdapter requirement	Required for PROFINET ports 1 and 2

03 PRODUCT FUNCTION

The 24 V DC CPU has a nominal current consumption of 0.6 A and a typical bit instruction time of 48 ns. A SIMATIC Memory Card provides load memory, while a separate BusAdapter serves PROFINET ports 1 and 2. The referenced hardware data specifies engineering with TIA Portal V13 SP1 Update 4 or later.

04 SYSTEM COMPATIBILITY

Provide a 24 V DC supply within 19.2-28.8 V and allow for the rated 0.6 A consumption and 4.7 A inrush. Install the required SIMATIC Memory Card and the BusAdapter for ports 1 and 2 before assigning the PROFINET device name and network configuration.

05 REFERENCE

Siemens CPU 1512SP F-1 PN product data, 19 February 2016.

AMIKON PRODUCT SUPPORT

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