SIMATIC S7-300

Product Data Sheet

6ES7312-5BE03-0AB0

CPU 312C Compact Controller

SUPPLY VOLTAGE	TYPICAL NO-LOAD CURRENT	NOMINAL SUPPLY-CURRENT FIGURE	TYPICAL INRUSH CURRENT
24 V DC; permissible 20.4 to 28.8 V	**60 mA**	**500 mA**	**11 A**

Siemens 6ES7312-5BE03-0AB0 is the CPU 312C compact controller for SIMATIC S7-300. It combines 32 kB of nonexpandable work memory with ten integrated digital inputs and six digital outputs. Load memory is provided through a SIMATIC Micro Memory Card, with a supported maximum of 4 MB. The CPU has no integrated analog channels.

01 TECHNICAL DATA

Supply voltage	24 V DC; permissible 20.4 to 28.8 V
Typical no-load current	60 mA
Nominal supply-current figure	500 mA
Typical inrush current	11 A
Typical power loss	6 W
Integrated work memory	32 kB; not expandable
Maximum MMC load memory	4 MB
Integrated digital inputs	10
Integrated digital outputs	6
Integrated analog channels	None

Siemens CPU 31xC and CPU 31x Specifications, A5E00105475-08, June 2008; CPU 312C pages 163-169.

02 ADDITIONAL PRODUCT DATA

Bit memory	128 bytes
S7 counters	128
S7 timers	128
MPI transmission rate	Maximum 187.5 kbit/s
Frequency-counter channels	2; maximum 10 kHz

03 PRODUCT FUNCTION

The integrated RS485 interface provides MPI communication at up to 187.5 kbit/s; an onboard PROFIBUS DP interface is not provided. The CPU supports 128 S7 counters, 128 S7 timers and 128 bytes of bit memory. Integrated functions include two frequency-counter channels up to 10 kHz and two PWM pulse-output channels up to 2.5 kHz. The documented supply is 24 V DC within a 20.4 to 28.8 V permissible range.

04 SYSTEM COMPATIBILITY

Assign the ten integrated digital inputs and six outputs according to the CPU 312C terminal diagram. The default input addresses extend from 124.0 to 125.1 and the default output addresses from 124.0 to 124.5. Select frequency-counter or PWM functions deliberately where those terminals are used for high-speed tasks.

05 REFERENCE

Siemens CPU 31xC and CPU 31x Specifications, A5E00105475-08, June 2008; CPU 312C pages 163-169.

AMIKON PRODUCT SUPPORT
+86-18020776786 INFO@AMIKON.CN AMIKONG.COM