SIMATIC S7-300 CPU 313C-2 DP

Product Data Sheet

6ES7313-6CF03-0AB0

Compact programmable logic controller

DIGITAL INPUTS	DIGITAL OUTPUTS	HIGH-SPEED COUNTERS	WORK MEMORY
16	**16**	**3; up to 30 kHz**	**64 kbyte**

Siemens 6ES7313-6CF03-0AB0 is the SIMATIC S7-300 CPU 313C-2 DP compact controller. It integrates sixteen digital inputs, sixteen digital outputs, three 30 kHz counters and a PROFIBUS DP interface alongside MPI. Its 64 kbyte work memory holds the executable program and associated working data.

01 TECHNICAL DATA

Digital inputs	16
Digital outputs	16
High-speed counters	3; up to 30 kHz
Work memory	64 kbyte
Supply range	24 V DC nominal; 20.4-28.8 V
Rated input current	900 mA
Typical idle current	100 mA
Typical inrush current	11 A
Typical power loss	10 W
Load memory	Micro Memory Card; up to 8 Mbyte

02 ADDITIONAL PRODUCT DATA

Bit processing time	0.1 microsecond typical
Word processing time	0.2 microsecond typical
Floating-point time	3 microseconds typical
Communication interfaces	MPI and integrated PROFIBUS DP
Engineering requirement	STEP 7 V5.3 SP2 or later with hardware update

03 PRODUCT FUNCTION

The controller operates from 24 V DC within a 20.4-28.8 V permissible range and uses a SIMATIC Micro Memory Card for load memory. A 40-pole front connector serves the integrated I/O. The referenced hardware data lists STEP 7 V5.3 SP2 with the required hardware update and a typical 0.1 microsecond bit-processing time.

04 SYSTEM COMPATIBILITY

Connect the 24 V DC CPU and I/O load supplies within the permitted 20.4-28.8 V range. Restore the integrated sixteen-input/sixteen-output terminal assignment through the required 40-pole front connector, retaining input and output group wiring.

05 REFERENCE

Siemens CPU 313C-2 DP product data, 18 August 2014.

AMIKON PRODUCT SUPPORT

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