

6ES7 313-6CF03-0AB0

SIMATIC S7-300 CPU 313C-2 DP Compact CPU

Siemens 6ES7 313-6CF03-0AB0 is a CPU 313C-2 DP compact controller with 16 DI, 16 DO, MPI and PROFIBUS DP.

BRAND	Siemens	FAMILY	Siemens SIMATIC S7-300 compact CPU system
PART	6ES7 313-6CF03-0AB0	SYSTEM ROLE	Executes the STEP 7 application with 64 KB integrated work memory

APTER POWER SALES
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+86 180 3023 5313
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www.apterpower.com



6ES7 313-6CF03-0AB0

MANUFACTURER SOURCE RECORD

SIMATIC S7-300 CPU 31xC and CPU 31x Technical Data
Siemens A5E00105475; CPU 313C-2 DP order number 6ES7313-6CF03-0AB0

Product Overview

SYSTEM FUNCTION

Siemens 6ES7 313-6CF03-0AB0 is a CPU 313C-2 DP compact controller with 16 DI, 16 DO, MPI and PROFIBUS DP.

FUNCTION 1

Executes the STEP 7 application with 64 KB integrated work memory

FUNCTION 2

Provides sixteen integrated digital inputs and sixteen integrated digital outputs

FUNCTION 3

Supports three 30 kHz counters and three 2.5 kHz pulse outputs

FUNCTION 4

Coordinates MPI and PROFIBUS DP communication as a configured master or slave

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Siemens SIMATIC S7-300 compact CPU system
Primary interface	Executes the STEP 7 application with 64 KB integrated work memory
Engineering context	Operates in the documented S7-300 rack with a 24 V DC supply, SIMATIC MMC, expansion modules and MPI/DP network.
Commissioning duty	Prove I/O, counters, pulse outputs and program sequence.

TECHNICAL NOTE

Record the MMC, integrated I/O, MPI address and PROFIBUS DP configuration. Restore the STEP 7 project and prove I/O, DP diagnostics and controlled program operation.

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
Product type	CPU 313C-2 DP	Instruction time	0.1 ms per 1000 instructions
Order number	6ES7313-6CF03-0AB0	Integrated digital inputs	16
Firmware version	V2.6	Integrated digital outputs	16
Work memory	64 KB	High-speed counters	3 channels, 30 kHz

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
C98043-A7106-L1	Apter Power product page	View C98043-A7106-L1 page
6SE7090-0XX87-4AH0	Apter Power product page	View 6SE7090-0XX87-4AH0 page
C98043-A7109-L100	Apter Power product page	View C98043-A7109-L100 page
6RY1803-0CM20	Apter Power product page	View 6RY1803-0CM20 page
C98043-A7107-L4	Apter Power product page	View C98043-A7107-L4 page
6RY1803-0DB02	Apter Power product page	View 6RY1803-0DB02 page
6SL3200-0SP06-0AA0	Apter Power product page	View 6SL3200-0SP06-0AA0 page
6SL3985-6TM00-0AA0	Apter Power product page	View 6SL3985-6TM00-0AA0 page

ENGINEERING BOUNDARY

Confirm the order number, CPU hardware and firmware, MMC, 24 V supply, rack, integrated I/O, MPI/DP configuration, STEP 7 project, grounding and functional-test results.

Applications and Precautions

Common Applications

Compact S7-300 control

Runs the documented STEP 7 application.

PROFIBUS DP master

Coordinates approved distributed I/O devices.

High-speed counting

Processes three configured 30 kHz counters.

CPU replacement

Restores the MMC, addresses and hardware configuration.

Product Precautions

- 1

Confirm the order number, CPU identity and firmware V2.6.
- 2

Secure the machine and PROFIBUS DP devices.
- 3

Back up the STEP 7 project and diagnostic state.
- 4

Isolate 24 V DC and record I/O and network connectors.
- 5

Inspect the MMC, front connector, rack and shields.
- 6

Restore the exact STEP 7 and DP configuration.
- 7

Review CPU, module and DP diagnostics.
- 8

Prove I/O, counters, pulse outputs and program sequence.

IMPORTANT NOTICE

Confirm the order number, CPU hardware and firmware, MMC, 24 V supply, rack, integrated I/O, MPI/DP configuration, STEP 7 project, grounding and functional-test results.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	6ES7 313-6CF03-0AB0
Configuration	Review CPU, module and DP diagnostics.
Functional release	Prove I/O, counters, pulse outputs and program sequence.

Engineer FAQ

Q1 How should the complete 6ES7 313-6CF03-0AB0 identity be verified before installation?

Confirm the order number, CPU hardware and firmware, MMC, 24 V supply, rack, integrated I/O, MPI/DP configuration, STEP 7 project, grounding and functional-test results.

Q3 Which host, carrier or actuator arrangement must be checked for 6ES7 313-6CF03-0AB0?

Operates in the documented S7-300 rack with a 24 V DC supply, SIMATIC MMC, expansion modules and MPI/DP network.

Q5 What configuration must be restored after fitting 6ES7 313-6CF03-0AB0?

Restore the exact STEP 7 and DP configuration.

Q7 What controlled test is required before 6ES7 313-6CF03-0AB0 returns to service?

Prove I/O, counters, pulse outputs and program sequence.

Q2 What system function does 6ES7 313-6CF03-0AB0 perform?

Siemens 6ES7 313-6CF03-0AB0 is a CPU 313C-2 DP compact controller with 16 DI, 16 DO, MPI and PROFIBUS DP.

Q4 What wiring and connector evidence should be retained before removing 6ES7 313-6CF03-0AB0?

Back up the STEP 7 project and diagnostic state. Isolate 24 V DC and record I/O and network connectors.

Q6 Which diagnostics should be reviewed after powering 6ES7 313-6CF03-0AB0?

Review CPU, module and DP diagnostics.

Q8 Which official document supports the published data for 6ES7 313-6CF03-0AB0?

Use SIMATIC S7-300 CPU 31xC and CPU 31x Technical Data, Siemens A5E00105475; CPU 313C-2 DP order number 6ES7313-6CF03-0AB0, and confirm that the installed identity matches 6ES7 313-6CF03-0AB0 before applying its data.

MANUFACTURER SOURCE RECORD

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