

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	Siemens SIMATIC S7-300 compact CPU system
Part number	6ES7 313-6CF03-0AB0
Product role	Executes the STEP 7 application with 64 KB integrated work memory
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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.

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Technical Specifications

Technical values below are limited to the named Siemens product record and directly applicable manufacturer documentation.

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

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Siemens SIMATIC S7-300 compact CPU system
Primary system role	Executes the STEP 7 application with 64 KB integrated work memory
Connection boundary	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.
Controlled acceptance duty	Compact S7-300 control

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.

Pre-Installation Checks

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.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	6ES7 313-6CF03-0AB0
Installed host	Siemens SIMATIC S7-300 compact CPU system
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

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

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Siemens SIMATIC S7-300 compact CPU system
2	6ES7313-6CF03-0AB0
3	Compact S7-300 control
4	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.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Siemens SIMATIC S7-300 compact CPU system
Interface role	Executes the STEP 7 application with 64 KB integrated work memory
Field / power context	Operates in the documented S7-300 rack with a 24 V DC supply, SIMATIC MMC, expansion modules and MPI/DP network.
Commissioning evidence	Prove I/O, counters, pulse outputs and program sequence.

Installation and Connection Checks

- 1

Inspect the MMC, front connector, rack and shields.
- 2

Restore the exact STEP 7 and DP configuration.
- 3

Review CPU, module and DP diagnostics.
- 4

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

MANUFACTURER SOURCE RECORD

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

Applications and Engineering Context

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.

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.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	6ES7 313-6CF03-0AB0 recorded
Host / carrier	Siemens SIMATIC S7-300 compact CPU system
Physical interface	Executes the STEP 7 application with 64 KB integrated work memory
Configuration	Review CPU, module and DP diagnostics.
Functional proof	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.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	6ES7 313-6CF03-0AB0
Approved role	Compact S7-300 control
Final validation	Prove I/O, counters, pulse outputs and program sequence.

Engineering 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.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
A5E03915589	Apter Power product page	View A5E03915589 page
A5E36228241	Apter Power product page	View A5E36228241 page
A5E00282044	Apter Power product page	View A5E00282044 page
6RY1243-0EA00	Apter Power product page	View 6RY1243-0EA00 page
6SE7027-2TD84-6HF3	Apter Power product page	View 6SE7027-2TD84-6HF3 page
6RY1803-0AA25-0AA1	Apter Power product page	View 6RY1803-0AA25-0AA1 page
6SE7035-1EJ84-1JC1	Apter Power product page	View 6SE7035-1EJ84-1JC1 page
6SE7033-7EG84-1JF1	Apter Power product page	View 6SE7033-7EG84-1JF1 page

MANUFACTURER SOURCE RECORD

SIMATIC S7-300 CPU 31xC and CPU 31x Technical Data
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