Siemens 6ES7315-1AF03-0AB0

Technical Reference

Siemens 6ES7315-1AF03-0AB0 is a SIMATIC S7-300 CPU 315 with integrated 24 V DC power supply and 48 Kbyte working memory. It executes the user program and coordinates the S7-300 backplane, I/O and communication resources.

PRODUCT ROLE AND VERIFIED FEATURES

Feature 1

Identified as a SIMATIC S7-300 CPU 315.

Feature 2

Provides 48 Kbyte working memory.

Feature 3

Uses an integrated 24 V DC power supply connection.

Feature 4

Coordinates the user program, S7-300 backplane and assigned I/O.

VERIFIED DATA SNAPSHOT

Product family	SIMATIC S7-300
Processor type	CPU 315
Working memory	48 Kbyte
Power supply	Integrated 24 V DC

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Technical profile

Verified technical values for the complete product string are arranged below for selection and engineering review.

Product family	SIMATIC S7-300
Processor type	CPU 315
Working memory	48 Kbyte
Power supply	Integrated 24 V DC
Load memory	SIMATIC memory card
Firmware version in Siemens update table	V1.2.1
Module role	Central processing unit

SELECTION ANCHORS

- Identified as a SIMATIC S7-300 CPU 315.
- Provides 48 Kbyte working memory.
- Uses an integrated 24 V DC power supply connection.
- Coordinates the user program, S7-300 backplane and assigned I/O.

IMPORTANT NOTICE	Use the values as one matched configuration. Do not substitute a nearby ordering code without a separate check.

MANUFACTURER SOURCE CONTROLS

Manufacturer source	Siemens Industry Mall product record and S7-300 storage/firmware tables
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

ADDITIONAL ENGINEERING CHECKS

What completes commissioning of Siemens 6ES7315-1AF03-0AB0?	Verify CPU diagnostics, I/O communication, interlocks and the controlled sequence.
Which installation records should accompany Siemens 6ES7315-1AF03-0AB0?	Record the complete article number, cpu module position, connections, controlled settings and functional test result.

System role and architecture

Field device → **Product interface** → **System channel** → **Verified response**

APPLICATION POINTS

Machine automation

Execute sequenced logic and interlocks in a modular S7-300 station.

Process skids

Coordinate signal modules and controlled outputs from the central rack.

Legacy S7-300 maintenance

Restore the documented CPU 315 execution while preserving the STEP 7 project.

Controlled restart

Return the station to its verified hardware and software state after replacement.

INTEGRATION RECORD

Identity	Record the complete marking and installed position.
Mechanical interface	Confirm mounting, support, clearance and connector engagement.
Electrical interface	Confirm signal path, shield, common and receiving-channel assignment.
Configuration	Retain the controlled channel settings and acceptance criteria.
Functional evidence	Record the expected static value, dynamic response and system status.

The cpu module serves a defined role in its documented SIMATIC system. Match the rack, interfaces, configuration and program safeguards before the controlled system returns to service.

ENGINEERING REVIEW QUESTIONS

What processor type is Siemens 6ES7315-1AF03-0AB0?	It is a SIMATIC S7-300 CPU 315.
How much working memory is documented for Siemens 6ES7315-1AF03-0AB0?	The CPU is identified with 48 Kbyte working memory.
Which supply connection is integrated in Siemens 6ES7315-1AF03-0AB0?	The CPU uses an integrated 24 V DC power-supply connection.
Which load-memory medium is used with Siemens 6ES7315-1AF03-0AB0?	The documented storage concept uses a SIMATIC memory card.

Engineering checks and acceptance

PRODUCT PRECAUTIONS

01	Confirm the complete 6ES7315-1AF03-0AB0 article number and CPU 315 designation.
02	Verify the rack, memory card and STEP 7 hardware configuration.
03	Back up the user program, blocks, hardware configuration and operating values.
04	Record the slot, interface wiring, switch state and memory card.
05	Isolate the 24 V DC supply and follow electrostatic-discharge controls.
06	Do not insert or remove the memory card outside the approved CPU-state procedure.
07	Check CPU status, diagnostics and I/O communication after startup.
08	Validate interlocks, outputs and the controlled sequence before release.

RELEASE EVIDENCE

Exact identity	Product marking and intended system position agree.
Interface condition	Mounting, connectors, terminals and cable routing are secure.
Signal response	The expected static and dynamic behavior has been observed.
Protection state	Channel status, alarms and controlled bypass state are restored.

IMPORTANT NOTICE	Use the complete article number and verify the intended SIMATIC system before installation.

APPLICATION BOUNDARIES

Machine automation	Execute sequenced logic and interlocks in a modular S7-300 station.
Process skids	Coordinate signal modules and controlled outputs from the central rack.
Legacy S7-300 maintenance	Restore the documented CPU 315 execution while preserving the STEP 7 project.
Controlled restart	Return the station to its verified hardware and software state after replacement.

Technical questions and related models

MODEL-SPECIFIC QUESTIONS

What processor type is Siemens 6ES7315-1AF03-0AB0?	It is a SIMATIC S7-300 CPU 315.
How much working memory is documented for Siemens 6ES7315-1AF03-0AB0?	The CPU is identified with 48 Kbyte working memory.
Which supply connection is integrated in Siemens 6ES7315-1AF03-0AB0?	The CPU uses an integrated 24 V DC power-supply connection.
Which load-memory medium is used with Siemens 6ES7315-1AF03-0AB0?	The documented storage concept uses a SIMATIC memory card.
Which firmware version appears for Siemens 6ES7315-1AF03-0AB0 in the Siemens update table?	The article is listed with firmware version V1.2.1.
What should be backed up before replacing Siemens 6ES7315-1AF03-0AB0?	Back up the user program, blocks, hardware configuration and operating values.

RELATED MODELS ON APTERPOWER

Siemens 6ES7331-1KF02-0AB0	Related product reference. Review the complete ordering string before selection.
Siemens 6ES7392-1AJ00-0AA0	Related product reference. Compare the required interface and system position.
Siemens 6ES7153-2BA02-0XB0	Related product reference. Confirm the execution independently for the intended task.

SOURCE AND SELECTION RECORD

Manufacturer source	Siemens Industry Mall product record and S7-300 storage/firmware tables
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Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

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