Siemens 6ES7315-1AF03-0AB0

Complete Product Information

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**

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.

Product dossier

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.

VERIFIED IDENTITY AND ROLE

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

PRODUCT CHARACTERISTICS

- 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.

SELECTION BOUNDARY

Article identity	Use the complete 6ES7315-1AF03-0AB0 ordering string.
Processor designation	Confirm the CPU 315 marking.
Controller platform	Apply only to the documented SIMATIC S7-300 system.
Engineering environment	Retain the approved STEP 7 project and operating record.

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

System context and applications

Field device → Product interface → System channel → Verified response

DOCUMENTED SYSTEM RELATIONSHIP

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.

COMMON APPLICATIONS

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.

CONFIGURATION RECORDS TO PRESERVE

Rack position	Record the installed slot and adjacent module arrangement.
Program assets	Preserve the STEP 7 user program and hardware configuration.
Memory resources	Identify installed memory media before transfer or replacement.
Interfaces	Label every connected interface before removal.
Operating state	Record CPU mode, indicators and the approved startup condition.

SERVICE INFORMATION PATH

Engineering record	Controlled configuration and project data define the intended system behavior.
Installed record	Module position, interfaces and field labels connect the article to its physical role.
Acceptance record	Diagnostics, communication and functional response provide the release evidence.

Operation, service and recovery

CONTROLLED SERVICE SEQUENCE

1 — Identify	Compare the complete article number and CPU 315 designation with the work order.
2 — Safeguard	Back up the STEP 7 project, hardware setup and operating values.
3 — Record	Document slot, switches, memory resources and interface connections.
4 — Isolate	Remove power and apply the site's electrostatic-discharge controls.
5 — Install	Seat the verified CPU and restore recorded interfaces and configuration.
6 — Validate	Check CPU mode, diagnostics, I/O communication and machine interlocks.

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.

RECOVERY DECISION POINTS

CPU does not reach the recorded mode	Recheck module seating, memory resources and the approved startup procedure.
I/O communication is incomplete	Review rack interfaces, connected resources and the retained hardware configuration.
Controlled sequence differs	Stop release and compare the restored STEP 7 project with the verified backup.

Acceptance record and support

RELEASE EVIDENCE

Identity	6ES7315-1AF03-0AB0 and its documented product designation verified.
System	Installed position and intended controller or station role confirmed.
Configuration	Controlled project, settings and interface assignments restored.
Communication	Applicable rack, bus, I/O or supply status checked after startup.
Functional response	The intended system response accepted before final release.
Service record	Technician, date, observed status and final disposition recorded.

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.

RELATED SIEMENS MODELS

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 CONTACT

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.

APTERPOWER SALES TEAM
WhatsApp / Phone: +86 180 3023 5313
Email: sales13@apterpower.com
Scan the approved WhatsApp code for model-specific support.