

APTER POWER PRODUCT MANUAL

6ES7318-3EL00-0AB0

SIMATIC S7-300 CPU 319-3 PN/DP

The Siemens 6ES7318-3EL00-0AB0 is a discontinued SIMATIC S7-300 CPU 319-3 PN/DP with 1.4 MB work memory, an MPI/DP interface, a second DP master/slave interface, and a third Ethernet PROFINET interface.

It executes high-capacity S7-300 control programs and coordinates central I/O plus configured PROFIBUS and PROFINET stations. Siemens identifies 6ES7318-3EL01-0AB0 as the successor, but migration requires project, firmware, network, and application verification.

Manufacturer	Siemens
Prepared by	Apter Power
Document ID	AP-SIE-07-6ES7318-3EL00-0AB0-PM-R1
Revision	R1
Issue date	2026-08-17

APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

A three-interface legacy CPU deserves a three-layer verification plan.

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



SCAN FOR PRODUCT & QUOTE
6ES7318-3EL00-0AB0

1. Product Overview and Identity

The Siemens 6ES7318-3EL00-0AB0 is a discontinued SIMATIC S7-300 CPU 319-3 PN/DP with 1.4 MB work memory, an MPI/DP interface, a second DP master/slave interface, and a third Ethernet PROFINET interface.

It executes high-capacity S7-300 control programs and coordinates central I/O plus configured PROFIBUS and PROFINET stations. Siemens identifies 6ES7318-3EL01-0AB0 as the successor, but migration requires project, firmware, network, and application verification.

Model Configuration

Field	Verified information
Complete model	6ES7318-3EL00-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-300 CPU 319-3 PN/DP

Key Features

- Exact Siemens MLFB 6ES7318-3EL00-0AB0
- SIMATIC S7-300 CPU 319-3 PN/DP
- 1.4 MB
- MPI/PROFIBUS DP, up to 12 Mbit/s; PROFIBUS DP master/slave; Ethernet PROFINET
- Model-specific lifecycle and installation guidance

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Product type	CPU 319-3 PN/DP
Published firmware generation	V2.4 or later within the 6ES7318-3EL00-0AB0 family
Work memory	1.4 MB
First interface	MPI/PROFIBUS DP, up to 12 Mbit/s
Second interface	PROFIBUS DP master/slave
Third interface	Ethernet PROFINET
Required memory	SIMATIC Micro Memory Card
Siemens net weight	1.331 kg
Siemens packaging dimensions	14.9 × 13.2 × 13.00 cm
Brand origin	Germany
Lifecycle	End of product lifecycle; Siemens lists 6ES7318-3EL01-0AB0 as successor

Verification Note

Use the complete 6ES7318-3EL00-0AB0 identifier. Siemens marks 6ES7318-3EL00-0AB0 at end of product lifecycle and identifies 6ES7318-3EL01-0AB0 as its successor. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes high-capacity S7-300 control programs and coordinates central I/O plus configured PROFIBUS and PROFINET stations. Siemens identifies 6ES7318-3EL01-0AB0 as the successor, but migration requires project, firmware, network, and application verification.
- Maintains the documented SIMATIC S7-300 high-performance PLC with dual DP and PROFINET role for this complete article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Large S7-300 control programs	Uses 1.4 MB work memory for complex automation logic
Multi-network coordination	Controls configured stations across two DP-capable interfaces and PROFINET
High-end machine and line control	Manages distributed I/O, communications, diagnostics, and sequence logic
Migration engineering	Provides the exact baseline when evaluating Siemens successor 6ES7318-3EL01-0AB0

Compatible Components

- SIMATIC S7-300 rack, power supply, and expansion modules documented for the original project
- SIMATIC Micro Memory Card containing the validated load program
- Two PROFIBUS segments and PROFINET devices only as defined in the STEP 7 configuration
- Successor 6ES7318-3EL01-0AB0 only after Siemens migration guidance and full project validation

Lifecycle Status

Siemens marks 6ES7318-3EL00-0AB0 at end of product lifecycle and identifies 6ES7318-3EL01-0AB0 as its successor.

4. Installation Precautions

- Successor review: Do not treat 6ES7318-3EL01-0AB0 as a plug-and-play replacement without Siemens migration guidance
- Firmware/project: Preserve the original STEP 7 project, CPU firmware details, and diagnostic buffer
- Memory: Control the Micro Memory Card and validate its contents before moving it to another CPU
- Networks: Record both DP configurations, PROFINET names/IP settings, topology, and timing parameters
- Commissioning: Perform complete I/O, communication, performance, and machine-safety testing after any CPU change

STOP - Verify before installation

Use the complete 6ES7318-3EL00-0AB0 identifier. Siemens marks 6ES7318-3EL00-0AB0 at end of product lifecycle and identifies 6ES7318-3EL01-0AB0 as its successor. Values not published in the cited Siemens source are intentionally not inferred.

Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens SiePortal product detail and Siemens support documentation for complete article number 6ES7318-3EL00-0AB0: <https://sieportal.siemens.com/en-ww/products-services/detail/6ES7318-3EL00-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7318-3el00-0ab0>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.