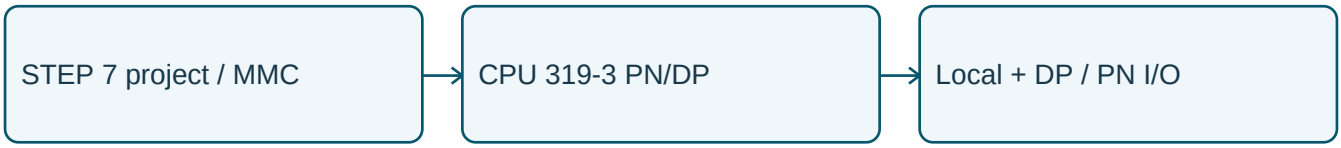
6ES7318-3EL01-0AB0

01 / System identity and preparation

Siemens 6ES7318-3EL01-0AB0 combines cyclic program execution with distributed I/O communication in a configured SIMATIC S7-300 station.



Preparation priorities

Execution identity	Compare 6ES7318-3EL01-0AB0, hardware version, firmware and installed Micro Memory Card with the approved STEP 7 project.
Power and station	Verify the 24 V DC supply, permitted voltage range, cabinet thermal allowance and S7-300 module arrangement.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

Ratings and functions apply to the specified CPU execution; match the fitted firmware, memory card and configured interfaces.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Execution identity	Compare 6ES7318-3EL01-0AB0, hardware version, firmware and installed Micro Memory Card with the approved STEP 7 project.
Power and station	Verify the 24 V DC supply, permitted voltage range, cabinet thermal allowance and S7-300 module arrangement.
Network configuration	Preserve MPI/DP addresses, DP master/slave assignments and PROFINET device names and IP configuration.
Functional acceptance	Check startup, diagnostics, I/O response and retained data against the approved machine sequence before release.

Match hardware and firmware

Record the complete order number, hardware and firmware before selecting a replacement. The technical reference covers hardware 01 and firmware V3.2.1.

Preserve the memory card and project

Keep an approved STEP 7 project backup and identify the SIMATIC Micro Memory Card. Match card contents and retentive-data requirements before restart.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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03 / Hardware and interface checks

Check DC supply and thermal allowance

Use the specified 19.2-28.8 V DC range and include rated current and heat dissipation in panel planning. Isolate power before hardware work.

Keep network roles consistent

Check X1 MPI/DP, X2 DP and X3 PROFINET assignments separately. Do not interchange network connections merely because connectors appear similar.

Key hardware references

CPU designation	CPU 319-3 PN/DP
Work memory	2048 KB; not expandable
Load memory	SIMATIC Micro Memory Card, up to 8 MB
Retentive data-block memory	700 KB maximum

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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04 / Commissioning and diagnostic decisions

Review timing-dependent functions

Isochronous operation is supported on X2 DP or PROFINET IO, not both simultaneously. Validate configured timing and device support.

Validate the restored station

Review the diagnostic buffer, I/O states, retained values and machine sequence before returning the station to service.

Acceptance checkpoints

Before energization	Verify the 24 V DC supply, permitted voltage range, cabinet thermal allowance and S7-300 module arrangement.
Configuration review	Preserve MPI/DP addresses, DP master/slave assignments and PROFINET device names and IP configuration.
Functional release	Check startup, diagnostics, I/O response and retained data against the approved machine sequence before release.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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05 / Service record and technical references

Lifecycle and support

The Siemens product lifecycle designation is Prod. Cancellation, and the product is offered through spare-parts support. Confirm current service and replacement arrangements with Siemens for the complete order number.

Technical basis

Siemens CPU 31xC and CPU 31x: Technical specifications, A5E00105475-12, 03/2011.

Applicability

Ratings and functions apply to the specified CPU execution; match the fitted firmware, memory card and configured interfaces.

Related portfolio references

Siemens 6ES7312-1AE13-0AB0

Siemens 6ES7 313-6CF03-0AB0

Siemens 6ES7307-1KA00-0AA0

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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