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01 Readiness and operating boundary

Siemens 6ES5312-3AB31 is a SIMATIC S5 IM312-3 extension-unit interface module with a fixed 0.95 m cable for centralized connection of an EU 183U or EU 185U to the controller path.

Confirm exact identity

Confirm the complete Siemens 6ES5312-3AB31 marking and IM312-3 role before work.

Exact article	6ES5312-3AB31
Module type	IM312-3 expansion-unit interface
Configuration	Centralized

Establish the safe work boundary

Place the controller and every affected expansion-unit circuit in the approved maintenance state.

Identity	6ES5312-3AB31
Host	SIMATIC S5 centralized configuration
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
Inspector	_____
Result	Pass / hold / corrective action
Record	Date, diagnostic state and release reference

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6ES5312-3AB31

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02 Configuration and interface setup

Within a centralized SIMATIC S5 rack arrangement, Siemens 6ES5312-3AB31 carries the expansion-bus connection from the central-controller interface into an I/O expansion unit.

Record the as-found configuration

Record the central-controller interface, expansion-unit position and all installed I/O modules.

Module type	IM312-3 expansion-unit interface
Configuration	Centralized
Expansion units	EU 183U / EU 185U with I/O modules only

Map connections and settings

Protect the fixed 0.95 m cable from twisting, crushing or unapproved extension.

Identity	6ES5312-3AB31
Host	SIMATIC S5 centralized configuration
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
Inspector	_____
Result	Pass / hold / corrective action
Record	Date, diagnostic state and release reference

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03 Installation and service sequence

Within a centralized SIMATIC S5 rack arrangement, Siemens 6ES5312-3AB31 carries the expansion-bus connection from the central-controller interface into an I/O expansion unit.

Restore the documented assembly

Verify that the receiving unit is the documented EU 183U or EU 185U I/O arrangement.

Configuration	Centralized
Expansion units	EU 183U / EU 185U with I/O modules only
Controller-side interface	IM300-3 6ES5300-3AB11 or IM301-3 6ES5301-3AB13

Protect every interface

Fit 6ES5760-0AB11 when this module is the last IM312-3 in the centralized line.

Identity	6ES5312-3AB31
Host	SIMATIC S5 centralized configuration
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
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04 Verification and fault isolation

Within a centralized SIMATIC S5 rack arrangement, Siemens 6ES5312-3AB31 carries the expansion-bus connection from the central-controller interface into an I/O expansion unit.

Verify the installed function

Keep the controller-interface to final expansion-unit interface path within 2 m.

Expansion units	EU 183U / EU 185U with I/O modules only
Controller-side interface	IM300-3 6ES5300-3AB11 or IM301-3 6ES5301-3AB13
Connecting cable	Fixed to the IM312 module

Isolate unexpected response

Review diagnostics and functionally verify every affected I/O point before service release.

Identity	6ES5312-3AB31
Host	SIMATIC S5 centralized configuration
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
Inspector	_____
Result	Pass / hold / corrective action
Record	Date, diagnostic state and release reference

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05 Acceptance and service handover

Within a centralized SIMATIC S5 rack arrangement, Siemens 6ES5312-3AB31 carries the expansion-bus connection from the central-controller interface into an I/O expansion unit.

Complete the release record

Confirm the complete Siemens 6ES5312-3AB31 marking and IM312-3 role before work.

Exact article	6ES5312-3AB31
Module type	IM312-3 expansion-unit interface
Configuration	Centralized

Retain acceptance evidence

Place the controller and every affected expansion-unit circuit in the approved maintenance state.

Identity	6ES5312-3AB31
Host	SIMATIC S5 centralized configuration
Acceptance	Diagnostics and functional response

Siemens 6ES5947-3UR21 — View product page

Siemens 6ES5948-3UA11 — View product page

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