Product dashboard

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.

Exact model	Product type	System family	Functional role
6ES5312-3AB31	IM312-3 Extension Unit Interface Module	SIMATIC S5 centralized configuration	Interface Module

PARAMETER	DOCUMENTED VALUE
Exact article	6ES5312-3AB31
Module type	IM312-3 expansion-unit interface
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
Connecting cable	Fixed to the IM312 module
Cable length	0.95 m for the 3AB31 execution
Final-line terminator	6ES5760-0AB11 on the last IM312-3

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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6ES5312-3AB31

System overview

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.

Centralized S5 expansion

Extends the central-controller interface into an EU 183U or EU 185U I/O position.

Legacy rack replacement

Restores the exact IM312-3 position while retaining the fixed cable and terminator arrangement.

I/O expansion maintenance

Supports controlled checks of the connected digital, analog and approved intelligent I/O modules.

Configuration fault isolation

Separates controller-interface, cable, terminator and expansion-unit response during diagnosis.

SYSTEM POSITION	RECORD
Installed identity	6ES5312-3AB31

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6ES5312-3AB31

Technical data map

PARAMETER	VERIFIED VALUE
Exact article	6ES5312-3AB31
Module type	IM312-3 expansion-unit interface
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
Connecting cable	Fixed to the IM312 module
Cable length	0.95 m for the 3AB31 execution
Final-line terminator	6ES5760-0AB11 on the last IM312-3
Maximum line length	2 m from controller IM to final expansion-unit IM
Supported I/O classes	DI, DO, AI, AO and some intelligent I/O modules
EU 183U slot context	IM312-3 expansion-unit interface position
Acceptance basis	Identity, cable route, termination and I/O response

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	centralized expansion-unit bus connection between the controller interface and SIMATIC S5 I/O

Technical evidence record: Siemens SIMATIC S5 System Manual C79000-G8576-C199-07, source pages 22, 24 and 82

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Applications and precautions

1. Confirm the complete Siemens 6ES5312-3AB31 marking and IM312-3 role before work.
2. Place the controller and every affected expansion-unit circuit in the approved maintenance state.
3. Record the central-controller interface, expansion-unit position and all installed I/O modules.
4. Protect the fixed 0.95 m cable from twisting, crushing or unapproved extension.
5. Verify that the receiving unit is the documented EU 183U or EU 185U I/O arrangement.
6. Fit 6ES5760-0AB11 when this module is the last IM312-3 in the centralized line.
7. Keep the controller-interface to final expansion-unit interface path within 2 m.
8. Review diagnostics and functionally verify every affected I/O point before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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6ES5312-3AB31

Buyer and engineering FAQ

What role does Siemens 6ES5312-3AB31 perform in a SIMATIC S5 system?

It is the IM312-3 expansion-unit interface for a documented centralized SIMATIC S5 connection.

Which expansion units are listed for Siemens 6ES5312-3AB31?

The system manual lists EU 183U and EU 185U expansion units with I/O modules only.

Is Siemens 6ES5312-3AB31 intended for centralized or distributed configuration?

The exact module is listed in the centralized-configuration table.

How is the connecting cable arranged on Siemens 6ES5312-3AB31?

The connecting cable is fixed to the IM312 module rather than supplied as a separate loose cable.

Related Apter Power pages

Siemens 6ES5947-3UA22 — View product page

Siemens 6ES5928-3UB12 — View product page

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