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01 Readiness and operating boundary

Siemens 6ES5316-8FA12 is the IM 316F interface module for connecting up to three expansion rows in SIMATIC S5 and distributed-I/O configurations.

Confirm exact identity

Confirm the complete Siemens 6ES5316-8FA12 and IM 316F markings.

Exact article	6ES5316-8FA12
Product type	IM 316F interface module
Expansion rows	Up to 3

Establish the safe work boundary

Record the controller family, interface position and each expansion row.

Identity	6ES5316-8FA12
Host	SIMATIC S5 / distributed I/O expansion
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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6ES5316-8FA12

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02 Configuration and interface setup

Siemens 6ES5316-8FA12 extends an S5-90U/95U/F, S5-100U, ET 100U or ET 200U arrangement through an IM 316F connection with increased EMC resistance.

Record the as-found configuration

Label every connector and verify its cable order number.

Product type	IM 316F interface module
Expansion rows	Up to 3
Supported contexts	S5-90U/95U/F, S5-100U, ET 100U, ET 200U

Map connections and settings

Place the PLC and all connected rows in the approved maintenance state.

Identity	6ES5316-8FA12
Host	SIMATIC S5 / distributed I/O expansion
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

Siemens 6ES5316-8FA12 extends an S5-90U/95U/F, S5-100U, ET 100U or ET 200U arrangement through an IM 316F connection with increased EMC resistance.

Restore the documented assembly

Check the one-ampere expansion-unit limit and retained grounding arrangement.

Expansion rows	Up to 3
Supported contexts	S5-90U/95U/F, S5-100U, ET 100U, ET 200U
EMC execution	Increased EMC resistance

Protect every interface

Restore the recorded row order, cable routing and mechanical retention.

Identity	6ES5316-8FA12
Host	SIMATIC S5 / distributed I/O expansion
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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04 Verification and fault isolation

Siemens 6ES5316-8FA12 extends an S5-90U/95U/F, S5-100U, ET 100U or ET 200U arrangement through an IM 316F connection with increased EMC resistance.

Verify the installed function

Review controller and remote-I/O diagnostics after energization.

Supported contexts	S5-90U/95U/F, S5-100U, ET 100U, ET 200U
EMC execution	Increased EMC resistance
Expansion-unit current	Maximum 1 A

Isolate unexpected response

Verify communication with every configured expansion row before release.

Identity	6ES5316-8FA12
Host	SIMATIC S5 / distributed I/O expansion
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

Siemens 6ES5316-8FA12 extends an S5-90U/95U/F, S5-100U, ET 100U or ET 200U arrangement through an IM 316F connection with increased EMC resistance.

Complete the release record

Confirm the complete Siemens 6ES5316-8FA12 and IM 316F markings.

Exact article	6ES5316-8FA12
Product type	IM 316F interface module
Expansion rows	Up to 3

Retain acceptance evidence

Record the controller family, interface position and each expansion row.

Identity	6ES5316-8FA12
Host	SIMATIC S5 / distributed I/O expansion
Acceptance	Diagnostics and functional response

Siemens 6AV6644-0AB01-2AX0

Siemens 6AV6642-0BA01-1AX0

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