Product dashboard

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

Exact model	Product type	System family	Functional role
6ES5316-8FA12	IM 316F Interface Module	SIMATIC S5 / distributed I/O expansion	Interface Module

PARAMETER	DOCUMENTED VALUE
Exact article	6ES5316-8FA12
Product type	IM 316F interface module
Expansion rows	Up to 3
Supported contexts	S5-90U/95U/F, S5-100U, ET 100U, ET 200U
EMC execution	Increased EMC resistance
Expansion-unit current	Maximum 1 A
Interface modules per PLC	Maximum 4
Ground-point potential difference	Plus or minus 1 V

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

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6ES5316-8FA12

System overview

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.

SIMATIC S5 expansion

Connects retained expansion rows to a supported S5 controller arrangement.

Distributed I/O extension

Supports an ET 100U or ET 200U expansion context.

EMC-sensitive cabinet service

Maintains the increased-EMC-resistance IM 316F execution.

Legacy row replacement

Preserves the accepted cable lengths, row order and module assignment.

SYSTEM POSITION	RECORD
Installed identity	6ES5316-8FA12
Host relationship	SIMATIC S5 / distributed I/O expansion
Controlled function	the IM 316F link

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Technical data map

PARAMETER	VERIFIED VALUE
Exact article	6ES5316-8FA12
Product type	IM 316F interface module
Expansion rows	Up to 3
Supported contexts	S5-90U/95U/F, S5-100U, ET 100U, ET 200U
EMC execution	Increased EMC resistance
Expansion-unit current	Maximum 1 A
Interface modules per PLC	Maximum 4
Ground-point potential difference	Plus or minus 1 V
CPU-side current at +9 V	Typically 27 mA
0.5 m connector	6ES5712-8AF00
2.5 m connector	6ES5712-8BC50
5 m connector	6ES5712-8BF00
10 m connector	6ES5712-8CB00

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	the IM 316F link

Technical evidence record: Siemens S5-95F Module Spectrum, A.1.5 Interface Modules, EWA 4NEB 812 6220-02, p. A-13

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6ES5316-8FA12

Applications and precautions

1. Confirm the complete Siemens 6ES5316-8FA12 and IM 316F markings.
2. Record the controller family, interface position and each expansion row.
3. Label every connector and verify its cable order number.
4. Place the PLC and all connected rows in the approved maintenance state.
5. Check the one-ampere expansion-unit limit and retained grounding arrangement.
6. Restore the recorded row order, cable routing and mechanical retention.
7. Review controller and remote-I/O diagnostics after energization.
8. Verify communication with every configured expansion row before release.

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

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6ES5316-8FA12

Buyer and engineering FAQ

What is Siemens 6ES5316-8FA12?

It is the IM 316F interface module with increased EMC resistance.

How many expansion rows can Siemens 6ES5316-8FA12 connect?

The exact product description states up to three expansion rows.

Which SIMATIC systems list Siemens 6ES5316-8FA12?

It is listed for S5-90U/95U/F, S5-100U, ET 100U and ET 200U contexts.

What is the expansion-unit current limit for Siemens 6ES5316-8FA12?

The expansion-unit current limit is 1 A maximum.

Related Apter Power pages

- Siemens 6AV6647-0AH11-3AX0
- Siemens 6AV6648-0EC11-3AX0

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