

APTER POWER PRODUCT MANUAL

6ES7414-3FM07-0AB0

SIMATIC S7-400 CPU 414F-3 PN/DP

The Siemens 6ES7414-3FM07-0AB0 is a fail-safe SIMATIC S7-400 CPU 414F-3 PN/DP with 4 MB work memory, split into 2 MB code and 2 MB data, plus MPI/DP, Ethernet PROFINET, and an IF 964-DP plug-in interface position.

It executes standard and approved safety-related logic while communicating with configured PROFINET and PROFIBUS devices. Safety operation depends on the validated Siemens safety project, compatible F-I/O, approved software versions, and documented acceptance testing.

Manufacturer	Siemens
Prepared by	Apter Power
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APTER POWER SALES TEAM

INDUSTRIAL AUTOMATION PRODUCT SUPPORT

Safety performance is earned through exact configuration evidence.

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SCAN FOR PRODUCT & QUOTE
6ES7414-3FM07-0AB0

1. Product Overview and Identity

The Siemens 6ES7414-3FM07-0AB0 is a fail-safe SIMATIC S7-400 CPU 414F-3 PN/DP with 4 MB work memory, split into 2 MB code and 2 MB data, plus MPI/DP, Ethernet PROFINET, and an IF 964-DP plug-in interface position.

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Model Configuration

Field	Verified information
Complete model	6ES7414-3FM07-0AB0
Manufacturer	Siemens
Product description	SIMATIC S7-400 CPU 414F-3 PN/DP

Key Features

- Exact Siemens MLFB 6ES7414-3FM07-0AB0
- SIMATIC S7-400 CPU 414F-3 PN/DP
- 4 MB: 2 MB code and 2 MB data
- MPI/PROFIBUS DP, 12 Mbit/s; Ethernet PROFINET; IF 964-DP plug-in position
- Model-specific lifecycle and installation guidance

2. Technical Specifications

Only manufacturer-confirmed information is stated. Values absent from the named Siemens source are marked for nameplate or document verification.

Parameter	Verified value
Product type	CPU 414F-3 PN/DP
Firmware generation	V7.0
Work memory	4 MB: 2 MB code and 2 MB data
First interface	MPI/PROFIBUS DP, 12 Mbit/s
Second interface	Ethernet PROFINET
Third interface	IF 964-DP plug-in position
Siemens net weight	1.088 kg
Siemens packaging dimensions	23.30 × 30.20 × 6.60 cm
Country of origin	Germany
Lifecycle	PM300 active product

Verification Note

Use the complete 6ES7414-3FM07-0AB0 identifier. Siemens lists 6ES7414-3FM07-0AB0 as a PM300 active product. Values not published in the cited Siemens source are intentionally not inferred.

3. Functions, Applications and Components

Core Functions

- It executes standard and approved safety-related logic while communicating with configured PROFINET and PROFIBUS devices. Safety operation depends on the validated Siemens safety project, compatible F-I/O, approved software versions, and documented acceptance testing.
- Maintains the documented SIMATIC S7-400 fail-safe controller with PROFINET and PROFIBUS role for this complete Siemens article number.
- Provides a verified reference for configuration, commissioning, diagnostics, and lifecycle planning.

Application Areas

Application	System role
Fail-safe machine control	Executes standard and safety-related functions in one validated CPU
Safety distributed I/O	Exchanges safety and process data with approved F-devices
Burner and process safeguards	Supports documented protective functions within the certified architecture
Networked safety systems	Coordinates approved PROFINET and PROFIBUS safety stations

Compatible Components

- Fail-safe and standard S7-400/ET 200 modules approved in the safety project
- Siemens safety engineering software version specified for the validated application
- PROFINET and PROFIBUS devices with matching safety addresses and watchdog parameters
- IF 964-DP plug-in module only when included in the approved hardware configuration

Lifecycle Status

Siemens lists 6ES7414-3FM07-0AB0 as a PM300 active product.

4. Installation Precautions

- Safety signature: Match CPU, firmware, F-runtime groups, safety addresses, and project checksum
- Software: Use only the Siemens engineering and safety package versions approved for the project
- Networks: Verify F-monitoring times, device versions, topology, PROFIBUS termination, and PROFINET names
- Change control: Apply the site functional-safety modification and authorization procedure
- Acceptance: Complete and record the required proof test before returning the safety function to service

STOP - Verify before installation

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Use the physical nameplate and current Siemens documents as the controlling records.

5. Official Source and Use Notice

Official source

Siemens Industry Mall product detail and Siemens technical data sheet for complete article number 6ES7414-3FM07-0AB0:

<https://mall.industry.siemens.com/mall/en/oeii/Catalog/Product?SiepCountryCode=OE&mlfb=6ES7414-3FM07-0AB0>

Apter Power product page

<https://www.apterpower.com/Siemens/6es7414-3fm07-0ab0>

Use Notice

This is an original Apter Power product-specific reference prepared from the Siemens source named above. It is not a Siemens publication and does not replace the original data sheet, nameplate, certificate, installation drawing, safety instructions, or machine-builder documentation.

ASK FOR QUOTE

For availability and quotation details, visit www.apterpower.com or contact sales13@apterpower.com.