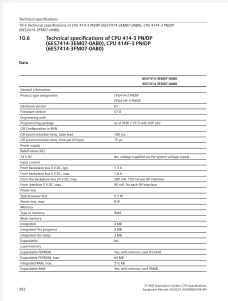


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7414-3FM07-0AB0

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



PROGRAM MEMORY	DATA MEMORY	BIT PROCESSING	NETWORKS
2 MB	2 MB	18.75 ns typical	MPI/DP + PROFINET

Siemens 6ES7414-3FM07-0AB0 is the SIMATIC S7-400 CPU 414F-3 PN/DP, with 4 MB of work memory divided into 2 MB for program code and 2 MB for data. Its integrated connections comprise MPI/PROFIBUS DP at X1 and a two-port Ethernet/PROFINET interface at X5.

01

VERIFIED PRODUCT PARAMETERS

Program work memory	2 MB
Data work memory	2 MB
Typical bit-operation time	18.75 ns
Integrated network interfaces	X1 MPI/DP and X5 PROFINET with two ports
Optional interface module	IF 964-DP; 6ES7964-2AA04-0AB0
5 V backplane current	1.3 A typical; 1.6 A maximum
24 V backplane current	300 mA maximum; 150 mA per DP interface
Power loss	6.5 W typical; 8 W maximum
Rack space required	Two slots
Flash load-memory capacity	Up to 64 MB with a FLASH memory card

Technical values were verified against Siemens CPU manual A5E00850746-AN, 03/2023; Hardware and Installation A5E00850741-01 and the Siemens Industry Mall record for the exact article number.

02 MECHANICAL AND LIFECYCLE DATA

Dimensions (W x H x D)	50 x 290 x 219 mm
Weight (official CPU manual)	Approx. 0.90 kg; source value 900 g
Country of origin	Germany
Lifecycle at verification	PM300 Active; phase-out date 1 October 2026

03 SYSTEM ROLE AND APPLICATIONS

An IF 964-DP interface module can provide the optional additional PROFIBUS connection. Match the S7-400 rack, system power supply, engineering software and approved standard and fail-safe configuration before replacement; the CPU receives operating power through the backplane.

- PROFIBUS retrofit: retain configured field-station communication through the X1 DP interface.
- Shared PROFINET I/O: maintain engineered ownership of supported distributed I/O modules.
- Process archiving: transfer selected process information through configured AR_SEND archive communication.

04 OFFICIAL INSTALLATION FACTS

- Qualified personnel must place the process in its required safe state and isolate the station before physical work.
- Back up the user program and configuration, then identify all network and external-backup connections.
- Reserve two rack slots; operating voltage is provided by the S7-400 system power supply through the backplane.
- Attach the module and swing it down carefully without force; tighten its top and bottom screws to 0.8-1.1 Nm.

05 OFFICIAL DOCUMENTATION

Siemens CPU manual A5E00850746-AN, 03/2023; Hardware and Installation A5E00850741-01

AMIKON PRODUCT SUPPORT

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