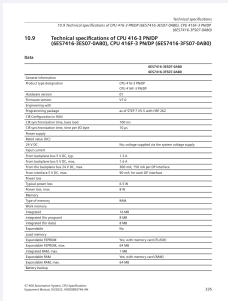


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

Siemens 6ES7416-3FS07-0AB0

SIMATIC S7-400 CPU 416F-3 PN/DP



Technical specifications of CPU 416F-3 PN/DP (6ES7416-3FS07-0AB0, CPU 416F-3 PN/DP (6ES7416-3FS07-0AB0))

Item	Value
Model designation	CPU 416F-3 PN/DP
Part number (6ES7416-3FS07-0AB0)	6ES7416-3FS07-0AB0
Memory (code)	8 MB
Memory (data)	8 MB
Bit processing time	12.5 ns typical
Integrated network interfaces	MPI/DP and two-port PROFINET
5 V backplane current	1.3 A typical; 1.6 A maximum
24 V backplane current	300 mA maximum; 150 mA per DP interface
Maximum power loss	8 W
Diagnostic buffer capacity	Up to 3200 entries; default 120
Operating temperature range	0 to 60 deg C
Rack space required	Two slots

PROGRAM MEMORY

8 MB

DATA MEMORY

8 MB

BIT PROCESSING

12.5 ns typical

CPU CLASS

F-CPU PN/DP

Siemens 6ES7416-3FS07-0AB0 is the SIMATIC S7-400 CPU 416F-3 PN/DP with 16 MB of work memory, split into 8 MB for code and 8 MB for data. The F-CPU combines an integrated MPI/DP interface, two-port PROFINET and a slot for the optional IF 964-DP interface.

01

VERIFIED PRODUCT PARAMETERS

Program work memory	8 MB
Data work memory	8 MB
Typical bit-operation time	12.5 ns
Integrated network interfaces	MPI/DP and two-port PROFINET
5 V backplane current	1.3 A typical; 1.6 A maximum
24 V backplane current	300 mA maximum; 150 mA per DP interface
Maximum power loss	8 W
Diagnostic buffer capacity	Up to 3200 entries; default 120
Operating temperature range	0 to 60 deg C
Rack space required	Two slots

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

Its communication, diagnostics and process-message functions must be configured together with the approved standard and safety project. Check the rack power budget, interface assignments and restart procedure; operating power is supplied through the S7-400 backplane, not a separate CPU load terminal.

- Operator alarms: configure process messages and diagnostic reporting with the intended supervisory receivers.
- Tool stations: control supported I/O-device activation and partner-port arrangements in the engineered sequence.
- Network paths: engineer media redundancy with recovery behavior matched to application timeout requirements.

04 OFFICIAL INSTALLATION FACTS

- Establish the required process safe state and isolate the S7-400 station before exchanging the CPU.
- Preserve the controlled standard and safety project and capture diagnostic and service information.
- Reserve the documented two-slot position and verify the system power supply and backplane load budget.
- Attach the CPU carefully, swing it into place and tighten its fixing 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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