

SIMATIC AUTOMATION SYSTEMS

Product Data Sheet

6ES7416-3FR05-0AB0

fail-safe central processing unit

FUNCTION	FAMILY	ORIGIN	WEIGHT
fail-safe central processing unit	SIMATIC automation systems	Germany	1.032 kg

Siemens SIMATIC S7 6ES7416-3FR05-0AB0 is a fail-safe central processing unit for the SIMATIC automation systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Rated Supply	24 V DC
Mounting	Control cabinet
Protection Class	IP20
System Interface	Backplane bus
Configuration	Manufacturer engineering tool
Operating Mode	Continuous duty
Connection	Keyed industrial connector
Diagnostic State	Status indicators
Commissioning	Controlled functional test
Installation	Rack module

ADDITIONAL PRODUCT DATA

OFFICIAL APPLICATIONS

- Execute deterministic automation sequences: Use 6ES7416-3FR05-0AB0 for cyclic logic, program execution and distributed I/O coordination in the documented SIMATIC automation systems. Preserve the approved hardware configuration and program backup.
- Connect configured PROFINET or PROFIBUS devices: Maintain the documented network names, addresses, topology and controller interfaces assigned to 6ES7416-3FR05-0AB0. Validate reachable devices before enabling controlled equipment.
- Restore the controller project safely: Load the approved project to 6ES7416-3FR05-0AB0, review diagnostics and test interlocks, I/O updates, alarms and commanded sequences before returning the plant section to service.

SYSTEM COMPATIBILITY

Match 6ES7416-3FR05-0AB0 to the installed SIMATIC automation systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens Industry Mall technical product data](#)

<https://mall.industry.siemens.com/mall/en/kettanehjoown/Catalog/Product?SiepCountryCode=OE&mlfb=6ES7416-3FR05-0AB0>

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