Siemens

6ES7512-1SK01-0AB0

SIMATIC CPU 1512SP F-1 PN

Siemens 6ES7512-1SK01-0AB0 is a fail-safe CPU 1512SP F-1 PN for an ET 200SP station. It provides 300 KB program memory, 1 MB data memory and a PROFINET IRT interface with a three-port switch.

System position

Exact identity	System family	Functional role	Release basis
6ES7512-1SK01-0AB0	SIMATIC ET 200SP	Fail-Safe CPU	Recorded test and diagnostics

Keep the hardware and configuration identities together

6ES7512-1SK01-0AB0 executes standard and fail-safe control tasks in a documented ET 200SP station, with the memory card, BusAdapter, PROFINET ports and safety project retained as one validated configuration.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact article number	6ES7512-1SK01-0AB0
CPU designation	1512SP F-1 PN
Host platform	ET 200SP
Program work memory	300 KB
Data work memory	1 MB
Primary interface	PROFINET IRT, 3-port switch

Technical evidence record: 6ES7512-1SK01-0AB0 data sheet

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Interfaces and integration

Define the installed role

6ES7512-1SK01-0AB0 executes standard and fail-safe control tasks in a documented ET 200SP station, with the memory card, BusAdapter, PROFINET ports and safety

Exact article number	6ES7512-1SK01-0AB0
CPU designation	1512SP F-1 PN
Host platform	ET 200SP

Map the host relationship

The complete 6ES7512-1SK01-0AB0 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	SIMATIC ET 200SP
Primary role	fail-safe CPU execution and PROFINET communication
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded SIMATIC ET 200SP position, connected interfaces and configuration baseline.

Acceptance evidence

Release 6ES7512-1SK01-0AB0 only after diagnostics and a controlled functional result are

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Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

PARAMETER	VALUE
Exact article number	6ES7512-1SK01-0AB0
CPU designation	1512SP F-1 PN
Host platform	ET 200SP
Program work memory	300 KB
Data work memory	1 MB
Primary interface	PROFINET IRT, 3-port switch
Bit performance	48 ns
Rated supply	24 V DC

PARAMETER	VALUE
Permitted supply range	19.2–28.8 V DC
Rated current	0.6 A
Maximum current	0.9 A
Memory card	Required; up to 32 GB
BusAdapter	Required for ports 1 and 2
Firmware	V2.9, functional status FS05
I&M data	I&M0 through I&M3
Lifecycle	Spare-part support phase

Identity decision

Accept only the complete 6ES7512-1SK01-0AB0 marking and the recorded hardware execution.

Host decision

Confirm the receiving SIMATIC ET 200SP position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of fail-safe CPU execution and PROFINET communication in an ET 200SP station before handover.

Engineering boundary

Use 6ES7512-1SK01-0AB0 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

Installed-system renewal

Restores the documented 6ES7512-1SK01-0AB0 position while keeping the approved host and

Controlled maintenance

Supports as-found recording, safe isolation and exact connection restoration.

Compatibility review

Compares the full marking, host, connectors, settings and companion hardware.

Commissioning evidence

Records diagnostics and a controlled functional test of fail-safe CPU execution and PROFINET

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 6ES7512-1SK01-0AB0 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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6ES7512-1SK01-0AB0

Engineering decisions

What does 6ES7512-1SK01-0AB0 identify?

6ES7512-1SK01-0AB0 identifies the simatic cpu 1512sp f-1 pn used for fail-safe CPU execution and PROFINET communication in an ET 200SP station.

Which installed system must 6ES7512-1SK01-0AB0 match?

Match 6ES7512-1SK01-0AB0 to the recorded SIMATIC ET 200SP host, position and companion hardware.

Which markings must be checked on 6ES7512-1SK01-0AB0?

Verify the complete 6ES7512-1SK01-0AB0 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing 6ES7512-1SK01-0AB0?

Record the slot, connectors, cable labels, switches, parameters, adjacent hardware and diagnostic state.

Can 6ES7512-1SK01-0AB0 be replaced by appearance alone?

No. 6ES7512-1SK01-0AB0 requires an exact identity and interface match against the installed-system record.

How should 6ES7512-1SK01-0AB0 be isolated?

Use the approved maintenance state, remove connected energy and prove the affected circuit safe.

Related Apter Power pages

Siemens 7VE5120 4CA10 0A FF — View product page

Siemens 7UT5121 4CB01 0AA0 LL — View product page

Siemens 7UM5111 4CB01 0BB0 JJ — View product page

Technical evidence record: 6ES7512-1SK01-0AB0 data sheet

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