

SIMATIC ET 200SP AUTOMATION SYSTEMS

Product Data Sheet

6ES7512-1SK01-0AB0

CPU 1512SP F-1 PN failsafe controller

FUNCTION CPU 1512SP F-1 PN failsafe	FAMILY SIMATIC ET 200SP automation systems	ORIGIN Germany	WEIGHT 0.38 kg
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Siemens Simatic S7 6ES7512-1SK01-0AB0 is a CPU 1512SP F-1 PN failsafe controller for the SIMATIC ET 200SP automation systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7512-1SK01-0AB0
Product Class	Cpu 1512Sp F-1 Pn Failsafe Controller
Product Family	SIMATIC ET 200SP automation systems
CPU Type	CPU 1512SP F-1 PN
Program Memory	300 KB
Data Memory	1 MB
PROFINET Interface	IRT with three-port switch
Bit Performance	48 ns
Supply Voltage	24 V DC
Permissible Voltage	19.2 to 28.8 V DC

Safety Function	Failsafe program execution
Engineering	TIA Portal V13 SP1 Update 4 or later
Memory Card	SIMATIC Memory Card required

- Sequence product blending with Cpu 1512Sp process control: For the coordinated operation of the component tanks and blend headers, 6ES7512-1SK01-0AB0 provides its specified system function as a CPU 1512SP F-1 PN failsafe controller. During blend correction, the system uses this function to adjust component addition from quality feedback, helping it bring the blend toward its release target.
- Track machine-tool automation with Cpu 1512Sp: During operation of the spindles, axes and tool changers, 6ES7512-1SK01-0AB0 performs its assigned control role as a CPU 1512SP F-1 PN failsafe controller. During cycle start, the system uses this function to coordinate the equipment states required by the active cycle, helping it complete the machining step with traceable status.
- Manage ingredient dosing during batch release: At the control layer of the batch vessels and dosing valves, 6ES7512-1SK01-0AB0 provides its specified system function as a CPU 1512SP F-1 PN failsafe controller. During batch release, the system uses this function to align measured quantities with the active batch step, helping it hold dosing accuracy through the cycle.

Match 6ES7512-1SK01-0AB0 to the installed SIMATIC ET 200SP automation systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

[Siemens official product documentation and manufacturer catalog](#)

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6ES7512-1SK01-0AB0>

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM