

6ES7590-1AB60-0AA0

SIMATIC S7-1500 Mounting Rail

Siemens 6ES7590-1AB60-0AA0 is a 160 mm SIMATIC S7-1500 mounting rail. It supports and grounds the configured controller and I/O station within the control cabinet.

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

SIMATIC S7-1500 automation system

PART

6ES7590-1AB60-0AA0

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PRODUCT OVERVIEW

Siemens 6ES7590-1AB60-0AA0 is a 160 mm SIMATIC S7-1500 mounting rail. It supports and grounds the configured controller and I/O station within the control cabinet.

1

Provides the mechanical carrier for a compact S7-1500 station

2

Maintains module alignment and backplane-connector engagement

3

Provides a defined grounding point for the assembled station

4

Carries compatible terminals, circuit breakers, or relays on its integrated profile

SYSTEM COMPONENTS

S7-1500 CPU

S7-1500 signal and technology modules

system power supply

grounding conductor

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6EP1434-2BA20	SITOP industrial power supply	Open product page
6ES7432-1HF00-0AB0	SIMATIC S7-400 analog output module	Open product page

TECHNICAL DATA

PARAMETER	VALUE
Rail length	160 mm
Material	Aluminum
Surface execution	Galvanically isolated

PARAMETER	VALUE
Grounding hardware	Grounding screw included
Integrated accessory rail	35 mm DIN profile

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	S7-1500 CPU
Companion hardware	S7-1500 signal and technology modules
Field connection	system power supply
Primary system function	Provides the mechanical carrier for a compact S7-1500 station
Controlled acceptance duty	Compact S7-1500 controller stations

TECHNICAL NOTE

Mount the 160 mm rail on a flat conductive cabinet surface, install the supplied grounding connection, and verify module order and connector engagement before energizing the S7-1500 station.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Compact S7-1500 controller stations

Provides the mechanical carrier for a compact S7-1500 station

Machine-control cabinet assembly

Maintains module alignment and backplane-connector engagement

Distributed automation panel retrofit

Provides a defined grounding point for the assembled station

Laboratory and OEM controller mounting

Carries compatible terminals, circuit breakers, or relays on its integrated profile

PRODUCT PRECAUTIONS

- 1 Confirm 6ES7590-1AB60-0AA0 and the 160 mm execution before panel work.
- 2 Isolate cabinet power and protect nearby electronics from drilling debris.
- 3 Use a flat mounting surface and prevent rail distortion during fastening.
- 4 Install and test the rail grounding screw and protective conductor.
- 5 Confirm the planned S7-1500 module sequence fits the available rail length.
- 6 Seat each module and backplane connector without forcing the locking mechanism.
- 7 Maintain ventilation and wiring clearances around the assembled station.
- 8 Verify station recognition and diagnostics after the mechanical installation.

ENGINEER FAQ

Q1 How can an engineer function-test 6ES7590-1AB60-0AA0 after installation?

Apply a controlled input, reference, or limited output appropriate to simatic s7-1500 mounting rail, observe the system indication and diagnostics, and confirm the intended process response.

Q3 Can 6ES7590-1AB60-0AA0 be replaced by a visually similar model without review?

No. Verify the complete part number, electrical execution, connector arrangement, companion hardware, and approved software or rack configuration.

Q5 Which installed hardware must be matched before fitting 6ES7590-1AB60-0AA0?

Match the complete 6ES7590-1AB60-0AA0 marking to S7-1500 CPU and S7-1500 signal and technology modules, then confirm the assigned SIMATIC S7-1500 automation system position and approved system configuration.

Q7 What isolation is required before installing 6ES7590-1AB60-0AA0?

Place compact s7-1500 controller stations in the approved maintenance state, isolate every applicable power, signal, and stored-energy source, and prove the work area safe.

Q2 What should be checked if 6ES7590-1AB60-0AA0 reports an unstable or incorrect value?

Check seating, supply, grounding, shielding, matched components, mechanical installation, and the signal path before changing configuration or replacing additional hardware.

Q4 What commissioning evidence should be retained for 6ES7590-1AB60-0AA0?

Retain the full 6ES7590-1AB60-0AA0 identity, as-left wiring and settings, measured functional-test results, final diagnostics, and authorization to return the affected equipment to service.

Q6 How should the field connections for 6ES7590-1AB60-0AA0 be recorded before replacement?

Record terminal or connector identity, polarity, shield, cable tag, channel assignment, and the as-found diagnostic state before disconnecting 6ES7590-1AB60-0AA0.

Q8 Which configuration check is essential when commissioning 6ES7590-1AB60-0AA0?

Restore only the approved model-specific channel, range, address, scale, or interface settings and compare them with the physical installation before enabling the process function.