

Siemens 6ES7193-4CC20-0AA0

01 Plan the controlled replacement

Work boundary

Siemens 6ES7193-4CC20-0AA0 anchors an ET 200S power module at the start of a potential group and routes its field supply through six screw-terminal positions with accessible AUX1 continuity. Treat the terminal module as part of the potential-group architecture. Verify voltage distribution first, then test the I/O modules that depend on the restored group.

Preparation sequence

01	Confirm the installed marking is 6ES7193-4CC20-0AA0.
02	Record the normal indication, diagnostic state and connected path.
03	Back up the applicable project, program, wiring record or terminal map.
04	Identify every supply, reference, communication and field connection.
05	Place affected machine functions in the approved maintenance state.
06	Define the functional and fault-response tests before removal.

Technical data to retain

Item	Installed requirement
Terminal-module type	TM-P15S23-A1
Station family	SIMATIC ET 200S
Supported upper module	ET 200S power module
Terminal technology	Screw terminals
Terminal arrangement	2 × 3 connections
AUX1 access	Available
AUX1 continuity	Continuous through the terminal row
Electrical role	Potential-group and power-module termination

Do not copy a nearby configuration

A visually similar product can use different capacity, channel organization, terminal access or communication settings. Use the exact model and recorded machine position.



Siemens 6ES7193-4CC20-0AA0

02 Disconnect, inspect and install

Pre-installation controls

Step	Control
1	Confirm the TM-P15S23-A1 identity and installed potential-group boundary.
2	Isolate the group supply and AUX1 before releasing screw terminals.
3	Label all six power and reference conductors before removal.
4	Do not fit an electronic I/O module directly onto this power-module base.
5	Inspect rail engagement, keying and terminal clamps before assembly.
6	Restore polarity, reference and AUX1 continuity exactly as recorded.

Connection records

Identity Photograph and label each connection before removal.	Electrical path Record polarity, reference and protective-device arrangement.
Configuration Retain the approved software, card, module or terminal assignment.	Mechanical fit Inspect seating, keying and connector condition without forcing parts.

Inspection before energization

Correct bent contacts, damaged conductors, loose terminals, contamination or incorrect keying before interpreting any response as a product fault.

Applicable interface values

Interface	Value	Check
Terminal-module type	TM-P15S23-A1	Confirm the installed terminal-module type agrees with this exact configuration.
Station family	SIMATIC ET 200S	Confirm the installed station family agrees with this exact configuration.



Siemens 6ES7193-4CC20-0AA0

03 Configure and verify operation

Functional test sequence

01	Energize only under the approved controlled condition.
02	Confirm the initial status before issuing commands or applying a signal.
03	Test one channel, object, terminal group or network path at a time.
04	Compare the internal indication with the actual field response.
05	Check the intended diagnostic or alarm behavior.
06	Repeat for every affected function before clearing maintenance controls.

Acceptance observations

Test	Action	Expected result
Identity	Confirm Siemens 6ES7193-4CC20-0AA0.	Complete marking matches the selected record.
Power or passive path	Verify the applicable supply or isolated wiring condition.	No polarity, potential or isolation fault is present.
Configuration	Restore the approved project, module pairing or terminal assignment.	Hardware and stored settings agree.
Functional response	Apply a controlled input, command or communication change.	The intended indication and output path respond.
Fault response	Introduce only the approved diagnostic or interruption test.	The configured status and safe response are visible.
Release	Remove test states and compare the final condition with the baseline.	Normal operation is stable and recorded.

Separate the stages

A correct display or status LED does not prove the downstream field path. Likewise, a physical output does not prove that diagnostics, alarms or retained configuration are correct.

Configuration record

Treat the terminal module as part of the potential-group architecture. Verify voltage distribution first, then test the I/O modules that depend on the restored group.



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04 Troubleshoot by technical symptom

Symptom-led checks

Observed condition	Investigation
No expected response	Trace the source, connection and configured destination before replacing hardware.
Wrong value or state	Compare the exact technical selection, channel identity and retained project data.
Intermittent behavior	Inspect seating, terminal security, signal reference and environmental condition.

Questions 1–4

Which upper module is intended for Siemens 6ES7193-4CC20-0AA0? The TM-P15S23-A1 base is designed to carry a compatible ET 200S power module.	What terminal pattern does Siemens 6ES7193-4CC20-0AA0 provide? It provides two groups of three screw connections for the power-module and potential-group wiring.
How does Siemens 6ES7193-4CC20-0AA0 handle AUX1? AUX1 is accessible at the terminal module and remains continuous through the assembled terminal row.	Why is Siemens 6ES7193-4CC20-0AA0 not interchangeable with TM-E15S26-A1? This TM-P model carries a power module and uses 2 × 3 terminals, while the TM-E model carries electronic modules with a different terminal arrangement.

Avoid unsupported adjustment

If the result is inconsistent, check identity, interface selection, channel mapping and retained configuration before changing setpoints or editing the project.

Remaining precautions

Check	Requirement
5	Inspect rail engagement, keying and terminal clamps before assembly.
6	Restore polarity, reference and AUX1 continuity exactly as recorded.
7	Measure the potential group before enabling downstream outputs.
8	Function-test every downstream module affected by the restored group.



Siemens 6ES7193-4CC20-0AA0

05 Return to service and handover

Questions 5–8

Which circuits must be isolated before removing Siemens 6ES7193-4CC20-0AA0? Isolate the power-module supply, the associated potential group and AUX1 before disturbing any of the six screw terminals.	What should be checked when Siemens 6ES7193-4CC20-0AA0 starts a potential group? Verify incoming supply polarity, reference conductors, AUX1 routing and the downstream modules assigned to that group.
How can a wiring error on Siemens 6ES7193-4CC20-0AA0 affect downstream I/O? An incorrect supply or reference connection can remove or misapply potential to the entire associated group even when individual electronic modules are healthy.	What proves Siemens 6ES7193-4CC20-0AA0 is correctly restored? Measure the intended group potentials, confirm AUX1 continuity, reseal the correct power module and function-test downstream I/O under controlled conditions.

Release evidence

Test	Action	Expected result
Fault response	Introduce only the approved diagnostic or interruption test.	The configured status and safe response are visible.
Release	Remove test states and compare the final condition with the baseline.	Normal operation is stable and recorded.

Related Siemens products

Siemens 6DP1531-8AA
Siemens 6SE3122-4DG40
Siemens 6DD1683-0BC0
Siemens 6DD1606-3AC0

Handover record

Record the complete model, configuration source, connection map, observed normal state, diagnostic result and the person or procedure that authorized return to service.

