Siemens 6ES7132-4BD02-0AA0

01 Station preparation

1 Identify the exact I/O position

Record the 6ES7132-4BD02-0AA0 label and slot position together with the ET 200S interface, power module and terminal module. A terminal housing can remain wired while the electronic module is changed, so the electronic and terminal identities must be checked separately.

2 Capture the process image

Record the controller addresses and whether the station uses one byte or packed four-bit output addressing. Preserve the channel-to-actuator mapping rather than assigning new addresses merely because the replacement fits mechanically.

3 Make the loads safe

Establish the approved maintenance state before interrupting actuator power. Identify devices that can move or release stored energy when an output drops out, and prevent unintended operation during removal and reconnection.

Record	Acceptance focus
I/O position	Exact electronic and terminal-module identities
Addressing	Original byte or packed-bit allocation
Load state	Safe condition confirmed before removal

6ES7132-4BD02-0AA0 / Terminal and load verification

02 Terminal and load verification

1 Map signals in channel order

Trace channel 0 to terminal 1, channel 1 to terminal 5, channel 2 to terminal 2 and channel 3 to terminal 6. Check the common terminals against the terminal-module drawing. Additional M and AUX terminals are not present on every terminal version.

2 Separate AUX from output wiring

AUX1 can serve a protective-conductor terminal or a separately used voltage bus. Its possible use up to 230 VAC does not make the module a 230 VAC output. Verify the terminal function and voltage before connecting a conductor.

3 Check actuator demand

Compare the operating current of each actuator with 0.5 A per channel and the combined demand with 2 A per module. Check a lamp circuit against the separate 5 W limit and confirm that output paralleling is not being used to raise capacity.

Channel	Output terminal
0 / 1	1 / 5
2 / 3	2 / 6
Common and AUX	Verify selected terminal-module drawing

6ES7132-4BD02-0AA0 / Power-up and timing checks

03 Power-up and timing checks

1 Restore the load supply deliberately

Check polarity and the source of the 24 VDC supply from the power module. Reverse polarity can connect digital outputs through; the existence of reverse-polarity protection is not permission to energize incorrectly wired loads.

2 Assess pulse-sensitive receivers

If L+ is applied by a mechanical contact, evaluate the possible approximately 50-microsecond high pulse. Prevent a fast counter or sensitive input from treating that event as a valid process command during restoration.

3 Choose a suitable test rate

Test resistive, inductive and lamp loads at rates within their respective limits. For resistive outputs, allow for different maximum turn-on and turn-off delays and for additional controller and communication delays.

Load type	Maximum switching rate
Resistive	800 Hz
Inductive	2 Hz
Lamp	10 Hz; 5 W maximum

6ES7132-4BD02-0AA0 / Channel commissioning

04 Channel commissioning

1 Prove each channel at the field device

Apply the approved controlled test for one channel at a time. Observe the corresponding green LED and confirm voltage and actual actuator response. A lit LED alone does not demonstrate that the load supply, field conductor and actuator are intact.

2 Resolve discrepancies systematically

If the indication and field response disagree, check L+, common continuity, terminal assignment and actuator condition before changing the program. The module does not provide a diagnostic function that substitutes for these field checks.

3 Verify the off state

Return each tested output to its intended off state and verify the actuator response. Check the application for sensitivity to residual current, and confirm that unintended energization cannot occur during normal power sequencing.

Test point	Expected comparison
Command / LED	Same assigned channel
Terminal / load	Correct voltage and physical response
Off command	Required safe actuator state

6ES7132-4BD02-0AA0 / Release and maintenance record

05 Release and maintenance record

1 Restore controlled operation

Remove temporary test commands only after every affected channel has been checked. Restore the original address allocation and verify normal sequencing with the responsible controls team. Keep protective functions in their approved operating state.

2 Retain useful evidence

Record the installed module marking, terminal arrangement, final addresses and field-test results. Include any power-on-pulse assessment for fast receivers so a later maintenance change does not undo the mitigation.

3 Plan future replacement

This reference is in the product cancellation phase. A future migration must account for station compatibility, output timing and terminal wiring; a mechanically similar module is not automatically a direct replacement.

Technical basis: Siemens ET 200S 4DO DC24V/0.5A ST Manual, A5E01254028-01, 01/2008.

Related product navigation

- Siemens 6ES7193-4CA40-0AA0
- Siemens 6ES7193-4CC20-0AA0
- Siemens 6ES7132-4BD32-0AA0

These are related references, not confirmed substitutes or an automatically approved assembly.