Siemens 6SL3040-1MA00-0AA0

01 Retain the drive identity

1 Capture project, firmware and licenses

Save the approved configuration and record the memory card, option board and connected drive topology.

2 Map the signal groups

Label ordinary inputs, bidirectional I/O, M1/M2 references and all network connections before isolation.

Retained data	Drive project and card identity
Physical record	Option board and terminal assignments
Hold point	Unresolved hardware or license mismatch

Why does a changed rotary address on 6SL3040-1MA00-0AA0 not immediately change the PROFIBUS node?

Address changes become effective after POWER ON. Record the switch values, verify whether switches or p0918 own the address, and confirm a unique valid node address after the approved restart.

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02 Restore the electrical references

1 Check independent input returns

Compare M1/M2 with the approved isolated or shared-ground design. Do not diagnose a missing return solely from signal voltage.

2 Budget all connected loads

Check individual and four-output-group demand, DRIVE-CLiQ consumers and supply connector loop-through conditions.

Reference check	Isolation intent preserved
Load check	Point, group and combined limits met
Supply check	Voltage remains within the required range

Can a 0.5 A load on every output of 6SL3040-1MA00-0AA0 be approved from the individual rating alone?

No. Check the four-output group limits and the combined current allocation including DRIVE-CLiQ loads. Also apply the load-type switching-frequency limits and inspect supply drop at the actual terminals.

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03 Establish PROFIBUS communication

1 Identify address ownership

Read the rotary switch positions and retained p0918 setting. Use a unique valid address and apply the approved POWER ON sequence.

2 Inspect the physical bus

Check first/last-node termination and shield connections. Do not fit CAN wiring to X126.

Node identity	Unique address 1–126
Network behavior	Expected telegram and cyclic setpoints
Acceptance	COM state agrees with controller diagnostics

What can a steady RDY indication with incomplete COM activity mean on 6SL3040-1MA00-0AA0?

The control unit may be ready while full cyclic exchange is not established. Check master telegram and parameter configuration, transferred setpoints and isochronous global-control conditions before diagnosing a failed drive component.

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04 Verify local service and I/O response

1 Prove the service link

Use the permitted local-access arrangement. If neither endpoint supports auto-MDI(X), check the crossover requirement.

2 Test field response safely

Exercise assigned inputs and outputs under the approved procedure, including reference returns and the permitted supply-interruption response.

Local link	Expected physical link and service access
Field path	Correct assignment and load behavior
Interruption response	Approved deactivation and recovery

Why might a direct service cable fail to establish a link with 6SL3040-1MA00-0AA0?

X127 does not support auto-MDI(X). If the other endpoint also lacks that function, use the required crossover arrangement. Check the link indication and cable before changing the retained drive configuration.

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05 Release the configured drive

1 Separate ready from commanded operation

Confirm RDY, COM, option status, licenses and actual drive-command exchange instead of relying on one LED.

2 Retain the final configuration

Record verified project, address, firmware, card and acceptance results; remove temporary test conditions before release.

Readiness	Drive topology and licenses reconciled
Commands	Expected cyclic and field responses
Handover	Approved configuration and test evidence retained

Other Siemens product references

Siemens 6ES7414-2XL07-0AB0

Siemens 6ES7431-0HH00-0AB0

Siemens 6AV2124-0GC01-0AX0

Separate product references; no substitution or compatibility is implied.