Siemens 6SL3320-1TE33-1AA3

01 Retain the installed drive topology

1 Capture motor and control configuration

Record the complete power-stage reference, Control Unit, Line Module, motor and feedback arrangement. Retain drive parameters and option assignments before disconnection.

2 Plan the stored-energy isolation

Identify all sources connected to the shared DC link. Isolate supplies, wait at least five minutes and verify bus voltage before touching power connections.

Configuration	Motor data, topology and option assignments retained
Isolation	All supply paths identified and isolated
Release to work	Bus voltage measured after discharge interval

Why must the motor power assigned to 6SL3320-1TE33-1AA3 be checked against the overload basis?

The low-overload and high-overload references reserve different current capacity for the duty cycle. Compare the actual torque/current profile and recovery periods rather than choosing the higher power figure independently of the application.

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02 Inspect GX power and cooling paths

1 Match the physical power terminals

Trace DCP/DCN, U2/V2/W2 and protective-earth connections against the retained arrangement. Check the specified lugs and GX torque requirements.

2 Verify the fan supply separately

Check -F10/-F11 supply routing and the -T10 voltage tap. Clear airflow obstructions and confirm the cabinet ventilation path.

Power terminals	Correct function, lugs and verified fastening
Fan circuit	Actual supply agrees with selected tapping
Air path	Inlets and exhaust routes unobstructed

Does the shared DC link of 6SL3320-1TE33-1AA3 automatically guarantee that regenerated energy can always be absorbed?

No. Other motoring axes can use returned energy, but that demand may disappear. Check the selected Line Module, braking arrangement and complete energy balance for the actual operating sequence.

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03 Reconcile interfaces and thermal feedback

1 Restore DRIVE-CLiQ topology

Reconnect the assigned drive interfaces and reconcile the detected components with the retained configuration before enabling motion.

2 Check sensor integrity

Confirm temperature-sensor type, safe separation, shielding and KTY polarity. Keep X42 auxiliary loads within the designated drive-interface scope.

Topology	Expected drive components detected
Thermal feedback	Plausible sensor value and correct configuration
Auxiliary loads	No unassessed cabinet loads added to X42

May the X42 supply on 6SL3320-1TE33-1AA3 power arbitrary external cabinet loads?

No. It supports the designated drive-control and interface components. Additional cabinet loads can overload the control-interface supply; provide a separately assessed distribution circuit instead of treating this connector as a spare power outlet.

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04 Verify duty and protective responses

1 Review current and switching settings

Compare the selected overload basis and pulse frequency with the motor load cycle. Apply the relevant current and environmental derating.

2 Test configured protection

Prove the required thermal, brake and safety functions using the approved acceptance procedure. A healthy status LED alone is not a completed test.

Load basis	Current/time duty and recovery intervals assessed
Configuration	Motor data and operating limits reconciled
Protection	Required responses tested and recorded

What could prevent a connected KTY sensor from protecting the motor through 6SL3320-1TE33-1AA3?

Incorrect sensor polarity, shielding, isolation or configuration can invalidate temperature supervision. Check the selected sensor type and signal response under the approved procedure; a connected lead alone does not demonstrate working overtemperature protection.

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05 Release controlled motion and retain evidence

1 Check the mechanical response

Under the agreed maintenance state, verify motor direction, feedback, commanded speed and load response before restoring the normal sequence.

2 Monitor the complete energy path

Observe DC-bus and thermal behavior through representative motoring and regenerative phases. Remove temporary test settings and retain the accepted configuration.

Motion	Expected direction, feedback and commanded response
Energy and cooling	Stable bus and thermal behavior for the duty
Handover	Final settings and acceptance results retained

Other Siemens product references

Siemens 6EP1437-2BA20

Siemens 6ES7138-7EC00-0AA0

Siemens 6ES7405-0KA02-0AA0

Separate product references; no substitution or compatibility is implied.