6SL3120-2TE21-8AC0

SINAMICS S120 Double Motor Module

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Siemens 6SL3120-2TE21-8AC0 is a SINAMICS S120 booksize double Motor Module. It converts the documented DC link into two controlled 18 A motor outputs.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Siemens article.

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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

1. Confirm the complete 6SL3120-2TE21-8AC0 marking and installed drive record before work.
2. Place the drive, motor and associated process in the approved maintenance state.
3. Isolate incoming power and prove the DC link and all stored energy discharged.
4. Record every connector, terminal, busbar, cable and protective-earth position before removal.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	6SL3120-2TE21-8AC0
Host / carrier	Siemens SINAMICS or SIMOVERT drive power-electronics system
Primary system role	Provides the documented double motor module, booksize c function
Acceptance boundary	Complete controlled interlock, output and machine-function tests before returning the drive to service.
Source record	Siemens product record for 6SL3120-2TE21-8AC0

WORK AUTHORIZATION RECORD

Work order: _____ Drawing / revision: _____
Checked by: _____ Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Record the S120 topology, DRIVE-CLiQ links, motor connections and safety configuration before removal. Restore the exact module position and complete controlled diagnostics and axis tests.

1. Use ESD controls and protect all board and module interfaces from contamination or mechanical load.
2. Install only the documented double motor module, booksize c execution and restore the recorded hardware arrangement.
3. Restore the approved firmware, parameters and project configuration, then review all drive diagnostics.
4. Complete controlled interlock, output and machine-function tests before returning the drive to service.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm 6SL3120-2TE21-8AC0, the complete Siemens drive type, hardware revision, double motor module, booksize c position, connectors and terminals, DC-link isolation, cooling, protective grounding, firmware, parameter set and controlled interlock and functional-test results before commissioning.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	6SL3120-2TE21-8AC0
Host match	Siemens SINAMICS or SIMOVERT drive power-electronics system
Connection proof	Install only the documented double motor module, booksize c execution and restore the recorded hardware arrangement.
Configuration proof	Restore the approved firmware, parameters and project configuration, then review all drive diagnostics.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Complete controlled interlock, output and machine-function tests before returning the drive to service.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

ACCEPTANCE AND RELEASE EVIDENCE

6SL3120-2TE21-8AC0 installed-system service

6SL3120-2TE21-8AC0 cabinet refurbishment

Preserves the recorded connector, terminal and protective-ground arrangement during planned maintenance.

6SL3120-2TE21-8AC0 controlled replacement

Uses exact identity and hardware records to prevent a neighboring execution from entering the installation.

6SL3120-2TE21-8AC0 recommissioning

Provides the product-specific reference for diagnostic review and functional acceptance before release.

Maintenance Verification and Closeout

6SL3120-2TE21-8AC0 installed-system service

Restores the documented double motor module, booksize c position without changing the approved Siemens SINAMICS or SIMOVERT drive power-electronics system architecture.

6SL3120-2TE21-8AC0 cabinet refurbishment

Preserves the recorded connector, terminal and protective-ground arrangement during planned maintenance.

6SL3120-2TE21-8AC0 controlled replacement

Uses exact identity and hardware records to prevent a neighboring execution from entering the installation.

6SL3120-2TE21-8AC0 recommissioning

Provides the product-specific reference for diagnostic review and functional acceptance before release.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
6SL3320-1TE33-1AA3	Motor Module	View 6SL3320-1TE33-1AA3 page
6SL3362-0AG00-0AA1	SINAMICS component	View 6SL3362-0AG00-0AA1 page
6SL3055-0AA00-5CA2	SMC30 Sensor Module	View 6SL3055-0AA00-5CA2 page
6SL3120-1TE21-8AA4	Single Motor Module	View 6SL3120-1TE21-8AA4 page
6SL3120-1TE21-8AA3	Single Motor Module	View 6SL3120-1TE21-8AA3 page
6SL3100-0BE23-6AB0	Active Interface Module	View 6SL3100-0BE23-6AB0 page
6SL3246-0BA22-1FA0	CU250S-2 PN Control Unit	View 6SL3246-0BA22-1FA0 page
6SL3120-2TE21-0AA4	Motor Module	View 6SL3120-2TE21-0AA4 page

MANUFACTURER SOURCE RECORD

Siemens product record for 6SL3120-2TE21-8AC0
Siemens SiePortal / Industry Mall product record and applicable drive equipment manual

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