

# 6SL3120-2TE21-8AD0

## SINAMICS S120 double motor module

It converts the S120 DC link into two independently controlled 18 A motor outputs and exchanges drive data through DRIVE-CLiQ.

### PRODUCT SNAPSHOT

**BRAND**

Siemens

**FAMILY**

SINAMICS S120 booksize D drive system

**PART**

6SL3120-2TE21-8AD0

**ORIGIN / HS**

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# PRODUCT OVERVIEW

It converts the S120 DC link into two independently controlled 18 A motor outputs and exchanges drive data through DRIVE-CLiQ.

1

Provides two 18 A motor channels

2

Uses the booksize D mechanical format

3

Applies optimized pulse patterns with internal air cooling

4

Supports extended Safety Integrated functions

## SYSTEM COMPONENTS

SINAMICS S120 600 V DC link

two compatible 400 V motors

CU320 or approved S120 control unit

supplied DRIVE-CLiQ cable and cooling path

### TECHNICAL NOTE

Discharge the S120 DC link, verify the booksize D mounting and airflow, record both motor and DRIVE-CLiQ assignments, then commission each channel separately before coordinated operation.

## TECHNICAL DATA

| PARAMETER              | VALUE               |
|------------------------|---------------------|
| Article number         | 6SL3120-2TE21-8AD0  |
| Module type            | Double Motor Module |
| DC-link input          | 600 V DC            |
| Motor output           | 400 V 3 AC          |
| Rated output channel 1 | 18 A                |

| PARAMETER              | VALUE                                |
|------------------------|--------------------------------------|
| Rated output channel 2 | 18 A                                 |
| Mechanical format      | Booksize D                           |
| Cooling method         | Internal air cooling                 |
| Control interface      | DRIVE-CLiQ                           |
| Safety support         | Extended Safety Integrated functions |

## RELATED PRODUCTS ON APTER POWER

| MODEL              | SYSTEM ROLE             | APTER POWER PAGE                             |
|--------------------|-------------------------|----------------------------------------------|
| 6ES7318-3EL00-0AB0 | Related Siemens product | <a href="#">View 6ES7318-3EL00-0AB0 page</a> |
| 6ES7315-6FF04-0AB0 | Related Siemens product | <a href="#">View 6ES7315-6FF04-0AB0 page</a> |
| 6ES7315-2EH14-0AB0 | Related Siemens product | <a href="#">View 6ES7315-2EH14-0AB0 page</a> |
| 6ES7315-2AH14-0AB0 | Related Siemens product | <a href="#">View 6ES7315-2AH14-0AB0 page</a> |
| 6ES7332-7ND02-0AB0 | Related Siemens product | <a href="#">View 6ES7332-7ND02-0AB0 page</a> |
| 6ES7215-1HG40-0XB0 | Related Siemens product | <a href="#">View 6ES7215-1HG40-0XB0 page</a> |
| 6ES7136-6BA00-0CA0 | Related Siemens product | <a href="#">View 6ES7136-6BA00-0CA0 page</a> |
| 6ES7131-6BF00-0BA0 | Related Siemens product | <a href="#">View 6ES7131-6BF00-0BA0 page</a> |

# APPLICATIONS & PRECAUTIONS

## COMMON APPLICATIONS

### Dual-axis machine control

Provides two 18 A motor channels

### Coordinated material-handling drives

Uses the booksize D mechanical format

### Two-motor production cells

Applies optimized pulse patterns with internal air cooling

### Safety-integrated axis modernization

Supports extended Safety Integrated functions

## PRODUCT PRECAUTIONS

- 1 Verify the complete 6SL3120-2TE21-8AD0 marking and its documented SINAMICS S120 booksize D drive system position before field work.
- 2 Place the connected equipment in the approved maintenance state before removing 6SL3120-2TE21-8AD0.
- 3 Isolate every applicable power, signal and stored-energy source, then prove a safe state at 6SL3120-2TE21-8AD0.
- 4 Record the installed connectors, terminals, jumpers and channel or node assignments before disconnection.
- 5 Use ESD controls and protect keyed interfaces, edge connectors and exposed electronic assemblies.
- 6 Restore only the approved SINAMICS S120 booksize D drive system hardware arrangement and configuration after replacement.
- 7 Energize 6SL3120-2TE21-8AD0 in the documented sequence and review local, host and network diagnostics.
- 8 Prove the intended controlled function and retain the final acceptance record before production release.

# ENGINEER FAQ

## Q1 Does 6SL3120-2TE21-8AD0 match SINAMICS S120 600 V DC link in a Dual-axis machine control installation?

Verify the complete 6SL3120-2TE21-8AD0 marking, the documented SINAMICS S120 booksize D drive system position and the installed SINAMICS S120 600 V DC link before fitting the assembly.

## Q3 Which SINAMICS S120 booksize D drive system records should be captured before removing 6SL3120-2TE21-8AD0?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 6SL3120-2TE21-8AD0 before disconnection.

## Q5 Which two compatible 400 V motors condition should be checked when 6SL3120-2TE21-8AD0 reports an abnormal state?

Check the two compatible 400 V motors supply, seating and connection first, then compare channel diagnostics with the recorded 6SL3120-2TE21-8AD0 baseline.

## Q7 What maintenance evidence is required after 6SL3120-2TE21-8AD0 is used for Two-motor production cells?

Retain the nameplate record, corrective action, final diagnostics and a controlled two-motor production cells functional-test result for 6SL3120-2TE21-8AD0.

## Q2 How should 6SL3120-2TE21-8AD0 be wired when it must provides two 18 a motor channels?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 6SL3120-2TE21-8AD0; then continuity-test the affected path.

## Q4 What controlled test confirms that 6SL3120-2TE21-8AD0 can uses the booksize d mechanical format?

Apply the approved field or simulated stimulus, observe the SINAMICS S120 booksize D drive system indication and confirm the intended response without bypassing the normal interlocks.

## Q6 Can 6SL3120-2TE21-8AD0 be moved directly into Coordinated material-handling drives without validating supplied DRIVE-CLiQ cable and cooling path?

No. Confirm the supplied DRIVE-CLiQ cable and cooling path, revision, connection scheme and SINAMICS S120 booksize D drive system configuration before transferring 6SL3120-2TE21-8AD0 to that duty.

## Q8 How should 6SL3120-2TE21-8AD0 be returned to service in Safety-integrated axis modernization?

Restore power under control, verify applies optimized pulse patterns with internal air cooling, exercise the intended signal path and release 6SL3120-2TE21-8AD0 only after the SINAMICS S120 booksize D drive system remains in its approved operating state.

**SOURCE** Siemens SiePortal product record | 6SL3120-2TE21-8AD0

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