

INDUSTRIAL AUTOMATION PRODUCT

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.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SINAMICS S120 booksize D drive system
Part number	6SL3120-2TE21-8AD0
Country	Germany
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



2

Technical Specifications

Technical values below are limited to the named Siemens product record.

PARAMETER	TECHNICAL 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
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

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	SINAMICS S120 600 V DC link
Companion hardware	two compatible 400 V motors
Field connection	CU320 or approved S120 control unit
Primary system function	Provides two 18 A motor channels
Controlled acceptance duty	Dual-axis machine control

3

System Role and Architecture

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

FUNCTION 1

Provides two 18 A motor channels

FUNCTION 2

Uses the booksize D mechanical format

FUNCTION 3

Applies optimized pulse patterns with internal air cooling

FUNCTION 4

Supports extended Safety Integrated functions

Matched 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

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	SINAMICS S120 600 V DC link
Companion hardware	two compatible 400 V motors
Field connection	CU320 or approved S120 control unit
Primary system function	Provides two 18 A motor channels
Controlled acceptance duty	Dual-axis machine control

4

Applications and Engineering Context

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

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.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SL3120-2TE21-8AD0 / 6SL3120-2TE21-8AD0 recorded
Physical interface	SINAMICS S120 600 V DC link
Companion check	two compatible 400 V motors
Functional proof	Provides two 18 A motor channels
Application test	Dual-axis machine control

5

Engineering 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.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
6ES7134-6HD01-0BA1	Related Siemens product	View 6ES7134-6HD01-0BA1 page
6ES7221-3BD30-0XB0	Related Siemens product	View 6ES7221-3BD30-0XB0 page
6ES7134-6GD01-0BA1	Related Siemens product	View 6ES7134-6GD01-0BA1 page
6ES7322-5HF00-0AB0	Related Siemens product	View 6ES7322-5HF00-0AB0 page
6SL3210-5FB10-4UF1	Related Siemens product	View 6SL3210-5FB10-4UF1 page
6ES7416-2FN05-0AB0	Related Siemens product	View 6ES7416-2FN05-0AB0 page
6ES7414-5HM06-0AB0	Related Siemens product	View 6ES7414-5HM06-0AB0 page
6ES7414-4HM14-0AB0	Related Siemens product	View 6ES7414-4HM14-0AB0 page

MANUFACTURER SOURCE RECORD

Siemens SiePortal product record

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