

INDUSTRIAL AUTOMATION PRODUCT

6SL3130-7TE21-6AA4

SINAMICS S120 Active Line Module

Siemens 6SL3130-7TE21-6AA4 is a 16 kW SINAMICS S120 Active Line Module for regenerative infeed. It accepts a 380–480 V three-phase supply and provides a 600 V DC link rated 27 A.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SINAMICS S120 Booksize drive system
Part number	6SL3130-7TE21-6AA4
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 6SL3130-7TE21-6AA4 only in the documented matched S120 Booksize infeed position. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected regenerative infeed and DC-link supply under controlled conditions.

System Role and Architecture

Siemens 6SL3130-7TE21-6AA4 is a 16 kW SINAMICS S120 Active Line Module for regenerative infeed. It accepts a 380–480 V three-phase supply and provides a 600 V DC link rated 27 A.

FUNCTION 1
Exact article identity 6SL3130-7TE21-6AA4

FUNCTION 2
SINAMICS S120 Active Line Module

FUNCTION 3
Documented role: regenerative infeed and DC-link supply

FUNCTION 4
Controlled installation, diagnostics and functional verification

RELATED APTER POWER PAGES

1 Siemens 6SE7041-8HK85-1HA0

2 Siemens 6SE7041-8EK85-0HA0

3 Siemens 6SE7041-8GK85-0HA0

4 Siemens 6RA8075-6DS22-0AA0

5 Siemens 6RY1243-0EA00

6 Siemens 6SE7027-2TD84-6HF3

7 Siemens 6RY1803-0AA25-0AA1

8 Siemens 6SE7035-1EJ84-1JC1

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SINAMICS S120 Booksize drive system
02	matched S120 Booksize infeed position
03	Documented connectors, terminals and protective-earth path
04	Approved firmware, parameter or project record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SINAMICS S120 Booksize drive system
Interface role	regenerative infeed and DC-link supply
Field / power context	matched S120 Booksize infeed position
Commissioning evidence	Identity, interfaces, configuration, diagnostics and controlled functional response recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete 6SL3130-7TE21-6AA4 marking, SINAMICS S120 Active Line Module designation and the recorded installation position.
- 2
- Place the drive, motor and connected process in the approved maintenance state.

3

4

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Module type	Active Line Module	Maximum 24 V current	1.1 A
Construction	Booksize	DC-link capacitance	710 µF
Input supply	3 AC 380–480 V, 50/60 Hz	Line connection	X1 screw terminals
Permitted line voltage	342–528 V	Line conductor range	2.5–10 mm² / AWG 14–8
Permitted line frequency	47–63 Hz	Protective earth	M5 connection
Rated infeed power	16 kW	Shield connection	Integrated
S6 power	21 kW	Maximum shielded line	630 m
Maximum power	35 kW	Maximum unshielded line	850 m
DC-link output	600 V DC, 27 A	Degree of protection	IP20 / UL open type
S6 DC-link current	35 A	Cooling	Internal air cooling
Maximum DC-link current	59 A	Operating temperature	0 to 40 °C
Rated input current	26 A at 380 V; 25 A at 400 V; 21 A at 480 V	Installation altitude	Up to 1000 m without derating
Short-circuit strength	65 kA	Conformity	CE and cULus
Electronics supply	24 V DC, -15% / +20%	Included accessory	DRIVE-CLiQ cable

ENGINEERING BOUNDARY

Confirm 6SL3130-7TE21-6AA4, the complete SINAMICS S120 Booksize drive system host, hardware revision, installed position, terminals, connectors, stored-energy state, protective earth, shielding, cooling, firmware or parameter record, diagnostics and controlled acceptance evidence before release.

- 7

Siemens 6RY1803-0AA25-0AA1
- 8

Siemens 6SE7035-1EJ84-1JC1

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 6SL3130-7TE21-6AA4 marking, SINAMICS S120 Active Line Module designation and the recorded installation
- 2

Place the drive, motor and connected process in the approved maintenance state.
- 3

Isolate incoming and auxiliary power, prove stored DC-link energy discharged and use ESD controls.
- 4

Record every power, signal, feedback, communication, shielding and protective-earth connection before removal.

Applications and Engineering Context

SINAMICS S120 Booksize drive system planned maintenance

Restores the documented regenerative infeed and DC-link supply during controlled cabinet service.

SINAMICS S120 Active Line Module replacement

Uses the exact 6SL3130-7TE21-6AA4 identity instead of a nearby electrical or firmware execution.

Drive-system refurbishment

Preserves the recorded hardware, connections, protective earth, cooling and configuration.

Controlled recommissioning

Confirms diagnostics and the affected drive role before automatic operation.

TECHNICAL NOTE

Install 6SL3130-7TE21-6AA4 only in the documented matched S120 Booksize infeed position. Preserve the as-found wiring, hardware revision and configuration; then review diagnostics and verify the affected regenerative infeed and DC-link supply under controlled conditions.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SL3130-7TE21-6AA4 recorded
Host / carrier	SINAMICS S120 Booksize drive system
Physical interface	Installed power, signal, feedback and communication interfaces matched to the as-found record
Configuration	Approved hardware, firmware and parameter or project configuration restored
Functional proof	Controlled test confirms regenerative infeed and DC-link supply

IMPORTANT NOTICE

Confirm 6SL3130-7TE21-6AA4, the complete SINAMICS S120 Booksize drive system host, hardware revision, installed position, terminals, connectors, stored-energy state, protective earth, shielding, cooling, firmware or parameter record, diagnostics and controlled

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6SE7041-8HK85-1HA0

View Siemens 6SE7041-8HK85-1HA0 page

2

Siemens 6SE7041-8EK85-0HA0

View Siemens 6SE7041-8EK85-0HA0 page

3

Siemens 6SE7041-8GK85-0HA0

View Siemens 6SE7041-8GK85-0HA0 page

4

Siemens 6RA8075-6DS22-0AA0

View Siemens 6RA8075-6DS22-0AA0 page

5

Siemens 6RY1243-0EA00

View Siemens 6RY1243-0EA00 page

6

Siemens 6SE7027-2TD84-6HF3

View Siemens 6SE7027-2TD84-6HF3 page

7

Siemens 6RY1803-0AA25-0AA1

View Siemens 6RY1803-0AA25-0AA1 page

8

Siemens 6SE7035-1EJ84-1JC1

View Siemens 6SE7035-1EJ84-1JC1 page

MANUFACTURER SOURCE RECORD

Siemens SINAMICS S120 Active Line Module product data and equipment manual | Siemens official product and family documentation, accessed 24 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.