

INDUSTRIAL AUTOMATION PRODUCT

6SL3120-1TE31-3AA3

SINAMICS S120 132 A Single Motor Module

600 VDC link power, 400 V three-phase motor output and Drive-CLiQ control

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	Siemens SINAMICS S120 booksize drive system
Part number	6SL3120-1TE31-3AA3

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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Article number	6SL3120-1TE31-3AA3
DC-link input	600 V DC
Motor output	400 V three-phase AC
Rated output current	132 A
Rated motor power reference	71 kW
Module type	Single Motor Module
Mechanical format	Booksize, A type
Cooling	Internal air cooling
Pulse sampling	Optimized pulse sample
Safety support	Extended integrated Safety functions
System interface	Drive-CLiQ cable included
Lifecycle status	Active product
Product family	Single Motor Modules in booksize format

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System Role and Architecture

600 VDC link power, 400 V three-phase motor output and Drive-CLiQ control

FUNCTION 1

Provides a 132 A motor output

FUNCTION 2

Uses the S120 booksize architecture

FUNCTION 3

Includes Drive-CLiQ system connectivity

FUNCTION 4

Supports extended integrated Safety functions

Matched system components

- SINAMICS S120 DC link
- SINAMICS control unit and Drive-CLiQ network
- approved motor and feedback system
- booksize cooling and protective devices

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	SINAMICS S120 DC link
Companion hardware	SINAMICS control unit and Drive-CLiQ network
Field connection	approved motor and feedback system
Primary system function	Provides a 132 A motor output
Controlled acceptance duty	High-power motion axis

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Applications and Engineering Context

High-power motion axis

Provides a 132 A motor output

Coordinated production-machine drive

Uses the S120 booksize architecture

Drive-CLiQ servo integration

Includes Drive-CLiQ system connectivity

S120 motor-module replacement

Supports extended integrated Safety functions

TECHNICAL NOTE

Observe DC-link discharge procedures, preserve Drive-CLiQ topology, verify cooling and protective devices, and commission the motor data and integrated Safety functions under the approved project.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6SL3120-1TE31-3AA3 / 6SL3120-1TE31-3AA3 recorded
Physical interface	SINAMICS S120 DC link
Companion check	SINAMICS control unit and Drive-CLiQ network
Functional proof	Provides a 132 A motor output
Application test	High-power motion axis

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Engineering Precautions

- 1 Verify the complete 6SL3120-1TE31-3AA3 marking and its assigned Siemens SINAMICS S120 booksize drive system position before work.
- 2 Place the connected high-power motion axis process in the approved maintenance state.
- 3 Isolate applicable power and 600 vdc link power, 400 v three-phase motor output and drive-cliq control field energy before disconnection.
- 4 Record every connector, conductor, address, firmware and software identity before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

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MANUFACTURER SOURCE RECORD

Siemens SiePortal product record

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