

6SL3120-1TE31-3AA3

SINAMICS S120 132 A Single Motor Module

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

PRODUCT SNAPSHOT

BRAND

Siemens

FAMILY

Siemens SINAMICS S120 booksize drive syste

PART

6SL3120-1TE31-3AA3

PRODUCT TYPE

SINAMICS S120 132 A Single Motor Module

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PRODUCT OVERVIEW

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

1

Provides a 132 A motor output

2

Uses the S120 booksize architecture

3

Includes Drive-CLiQ system connectivity

4

Supports extended integrated Safety functions

SYSTEM COMPONENTS

SINAMICS S120 DC link

SINAMICS control unit and Drive-CLiQ network

approved motor and feedback system

booksize cooling and protective devices

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.

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

ENGINEERING 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.

RELATED PRODUCTS ON APTER POWER

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APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

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

PRODUCT 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.
- 6 Confirm the installed SINAMICS S120 DC link and SINAMICS control unit and Drive-CLiQ network against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended coordinated production-machine drive function and retain the final test result.

ENGINEER FAQ

Q1 What power-stage role does 6SL3120-1TE31-3AA3 provide in SINAMICS S120?

It is a booksize A-type Single Motor Module that converts the S120 DC-link supply into one controlled three-phase motor output.

Q2 For 6SL3120-1TE31-3AA3, which input and output voltages must match the installed drive group?

The official product data identifies a 600 VDC link input and a 400 V three-phase AC motor output for this exact article.

Q3 For 6SL3120-1TE31-3AA3, what output rating identifies this Single Motor Module?

The documented rated output current is 132 A, with a 71 kW rated-motor-power reference for the stated product data conditions.

Q4 For 6SL3120-1TE31-3AA3, why must the Drive-CLiQ topology be recorded before module exchange?

The module includes Drive-CLiQ connectivity. Preserve cable order, control-unit assignment and feedback relationships so the replaced axis is recognized correctly.

Q5 For 6SL3120-1TE31-3AA3, which cooling arrangement must remain unobstructed?

This article uses internal air cooling in the booksize assembly; maintain the installed airflow path, spacing and protective devices when refitting the power stage.

Q6 For 6SL3120-1TE31-3AA3, how should integrated Safety functions be treated during commissioning?

The product supports extended integrated Safety functions. Restore only the approved project and complete the required Safety acceptance checks before production release.

Q7 For 6SL3120-1TE31-3AA3, what isolation step applies to the 600 V DC link?

Follow the SINAMICS shutdown and DC-link discharge procedure, verify a safe voltage condition and secure the motor output before touching the module or Drive-CLiQ connections.

Q8 For 6SL3120-1TE31-3AA3, what must be proven after installing the 132 A motor module?

Commission the recorded motor data, feedback, current limits and cooling, then verify Drive-CLiQ diagnostics, axis direction and controlled operation under the approved project.

SOURCE Siemens SiePortal product record | 6SL3120-1TE31-3AA3

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