

AMIKON TECHNICAL DOCUMENTATION

Installation Reference

Siemens A5E31429340 Inverter power control board

Qualified drive-service personnel and controlled documentation required

DOCUMENTATION REFERENCE

A5E31429340

SINAMICS converter power section
SIEMENS

SAFETY AND SCOPE

Use A5E31429340 only in the documented SINAMICS converter power sections arrangement. Isolate hazardous energy, observe the Siemens discharge time, use ESD controls, and follow the approved site procedure.

01

IDENTITY CHECK BEFORE WORK

Complete identifier	A5E31429340
Product family	SINAMICS converter power sections
Component class	Inverter power control board
Electrical class	24 V DC control class
Installed section	Inverter control section
Connections	Gate, current and DC-link plugs

02

BEFORE REMOVAL

- Confirm the exact A5E31429340 article, board revision, section position and controlled drawing.
- Complete the site's lockout, isolation, discharge and absence-of-voltage verification procedure.
- Photograph and label gate, current and dc-link plugs, cable routing, grounding and adjacent assemblies.
- Protect the assembly from electrostatic discharge, contamination, impact and connector damage.

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03

MODEL-SPECIFIC INSTALLATION WORKFLOW

1

CONFIRM SCOPE

Verify A5E31429340, the inverter control section, revision and controlled drawing before work.

2

ISOLATE

Apply the site safety procedure for 24 V DC control class and prove the drive is safe to handle.

3

DOCUMENT

Record gate, current and dc-link plugs, connector keys, cable labels, grounding and mechanical position.

4

REMOVE

Use ESD protection and the Siemens service procedure; support the Inverter power control board and do not force plugs.

5

COMPARE

Match the replacement article, Power-stage defined rating, interfaces and mechanical design.

6

INSTALL

Seat the assembly evenly, restore documented connections, shields, earth paths and cooling provisions.

7

COMMISSION

Verify phase gates and diagnostics. Review diagnostics before releasing the affected drive function.

OFFICIAL DOCUMENT APPLICABILITY

No directly applicable Siemens installation PDF was available for A5E31429340. Use the controlled project documentation and obtain Siemens confirmation for any unresolved hardware or firmware condition.

04

PRE-ENERGIZATION AND HANDOVER CHECKLIST

Identifier	Exact A5E31429340 article and product-family identity match the approved replacement record
Mechanical	Service circuit-board assembly is correctly seated, retained and free from transport damage
Connections	Gate, current and DC-link plugs and protective-earth paths match the removal record
Electrical	24 V DC control class and Power-stage defined rating agree with the installed drive section
Configuration	Required parameters, firmware conditions and controlled project settings are approved
Commissioning	Verify phase gates and diagnostics
Records	Photos, article number, revision, diagnostics and test results are retained in the maintenance record

05

OFFICIAL REFERENCE AND LIMITATIONS

SIEMENS MANUFACTURER REFERENCE

Siemens product-family documentation and controlled site records

Use only where the official family, installed section and exact A5E31429340 configuration agree. Terminal functions, firmware compatibility, torque values and final acceptance criteria must come from the applicable Siemens manual or controlled project documentation.

DO NOT INFER MISSING SPECIFICATIONS

Do not infer undocumented connector functions, electrical ratings, parameter compatibility, cooling requirements or commissioning limits from appearance or a partial article number.

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