

AMIKON TECHNICAL DOCUMENTATION

Installation Reference

Siemens A5E01283291 IGBT driver board

Qualified drive-service personnel and controlled documentation required

DOCUMENTATION REFERENCE

A5E01283291

SINAMICS S120 motor modules
SIEMENS

SAFETY AND SCOPE

Use A5E01283291 only in the documented SINAMICS S120 motor modules 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	A5E01283291
Product family	SINAMICS S120 motor modules
Component class	IGBT driver board
Electrical class	Installed 600 V DC-link class
Installed section	Motor-module inverter section
Connections	Gate and feedback connectors

02

BEFORE REMOVAL

- Confirm the exact A5E01283291 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 and feedback connectors, 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 A5E01283291, the motor-module inverter section, revision and controlled drawing before work.

2

ISOLATE

Apply the site safety procedure for Installed 600 V DC-link class and prove the drive is safe to handle.

3

DOCUMENT

Record gate and feedback connectors, connector keys, cable labels, grounding and mechanical position.

4

REMOVE

Use ESD protection and the Siemens service procedure; support the IGBT driver board and do not force plugs.

5

COMPARE

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

6

INSTALL

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

7

COMMISSION

Verify gate timing and DC-link feedback. Review diagnostics before releasing the affected drive function.

OFFICIAL DOCUMENT APPLICABILITY

Siemens manufacturer documentation; selected PDF pages 1, 21, 22 supports the family-level safety, connection and commissioning checks used here. Confirm that its documented hardware arrangement applies to the installed A5E01283291 before work.

04

PRE-ENERGIZATION AND HANDOVER CHECKLIST

Identifier	Exact A5E01283291 article and product-family identity match the approved replacement record
Mechanical	Compact driver-board assembly is correctly seated, retained and free from transport damage
Connections	Gate and feedback connectors and protective-earth paths match the removal record
Electrical	Installed 600 V DC-link class and Power-stage defined current agree with the installed drive section
Configuration	Required parameters, firmware conditions and controlled project settings are approved
Commissioning	Verify gate timing and DC-link feedback
Records	Photos, article number, revision, diagnostics and test results are retained in the maintenance record

05

OFFICIAL REFERENCE AND LIMITATIONS

SIEMENS MANUFACTURER REFERENCE

Siemens manufacturer documentation; selected PDF pages 1, 21, 22

Use only where the official family, installed section and exact A5E01283291 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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