

Installation Instructions

A5E00714561

IGBT converter driver board

SINAMICS power-block repair parts

Before work begins

- 01 Confirm the exact A5E00714561 article number and installed power-section position.
- 02 Place the drive in a safe state, isolate all energy sources and wait the Siemens discharge time.
- 03 Record busbars, connectors, gate leads, cooling connections and protective-earth conductors.
- 04 Use ESD controls and qualified drive-service personnel throughout the replacement.

Model-specific connection checks

Component Class	IGBT converter driver
Drive Family	SINAMICS power converters
Primary Function	Controls FS300R12KE3 switching
Power Architecture	IGD2/R4 power-block stage
Voltage Class	1,200 V semiconductor class
Current Rating	300 A nominal current
Control Supply	+15 V / –8 V gate supply
Power Section	Inverter power section
Mechanical Design	FS300R12KE3 board assembly
Electrical Interface	Internal IGBT gate leads

Installation sequence

- Inspect the replacement for transport damage, contamination, bent pins and altered keying.
- Install without forcing connectors or busbars; restore all shields, grounds and cooling seals.
- Torque power connections and secure cable supports under the applicable Siemens procedure.

Commissioning and return to service

- 01 Check IGBT seating and torque.
- 02 Check insulation and protective-earth continuity before energising..
- 03 Restore auxiliary and main power in the approved sequence..
- 04 Observe interface, control-unit and power-section diagnostics..
- 05 Test the connected motor or DC-drive function at a controlled operating point..
- 06 Record the final article number, test results and maintenance approval..

This AMIKON installation reference supplements the applicable Siemens controlled documentation and the site safety procedure.
Warranty: 12 months from AMIKON.