

Installation Instructions

AGDR-71C 6MBI450U-120

IGBT gate driver board

ACS800 drive power stage

Before work begins

- 01 Confirm the exact AGDR-71C 6MBI450U-120 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

Driver Board	AGDR-71C
Power Semiconductor	6MBI450U-120 IGBT
Current Class	450 A module class
Voltage Class	1200 V IGBT class
Drive Family	ABB ACS800
Primary Function	IGBT gate control
Power Stage Role	Switching command isolation
Connection Type	Gate and emitter leads
Feedback Function	Driver fault monitoring
Cooling Interface	Power module heatsink

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 AGDR-71C nameplate.
- 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.