

Installation Instructions

3BHB030310R0001 5SHY4045L0006

igct module

ABB Drives

Before work begins

- 01 Confirm the exact 3BHB030310R0001 5SHY4045L0006 article number and installed equipment position.
- 02 Place the equipment in a safe state, isolate all energy sources and follow the applicable ABB discharge or lockout procedure.
- 03 Record terminals, connectors, signal cables, cooling provisions and protective-earth conductors.
- 04 Use ESD controls and qualified industrial-service personnel throughout the replacement.

Model-specific connection checks

Junction Temperature (Tj)	-40°C to +125°C (operating range)
Storage Temperature	-40°C to +140°C
Blocking Voltage	4500V
Gate Trigger Voltage (VGT)	1.5V to 2.5V
Peak Surge Current (ITSM)	30kA
Turn-On Time (ton)	<5µs
Turn-Off Time (toff)	<10µs
Switching Frequency	Up to 500Hz
Gate Current (IG)	50A
Exact Article Code	3BHB030310R0001 5SHY4045L0006

Installation sequence

- Inspect the replacement for transport damage, contamination, bent pins and altered keying.
- Install without forcing connectors or terminals; restore all shields, grounds and cooling provisions.
- Secure power and signal connections under the applicable manufacturer procedure.

Commissioning and return to service

- 01 Matched ABB gate unit.
- 02 Check insulation and protective-earth continuity before energising..
- 03 Restore auxiliary and main power in the approved sequence..
- 04 Observe controller, interface and equipment diagnostics..
- 05 Test the connected signal, network, motor or power function at a controlled operating point..
- 06 Record the final article number, test results and maintenance approval..

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