

Installation Instructions

3BHB013085R0001 5SHY3545L0009

igct module

ABB Drives

Before work begins

- 01 Confirm the exact 3BHB013085R0001 5SHY3545L0009 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

Operating Junction Temperature (T _J)	-40°C to +125°C
Storage Temperature	-40°C to +140°C
Gate Power Dissipation	20W
Blocking Voltage	4500V
Gate Trigger Voltage (V _{GT})	1.5V–2.5V
Peak Surge Current (I _{TSM})	25–30kA
Critical Rate of Current Rise (di/dt)	1kA/μs
Turn-On Time (t _{on})	<5μs
Turn-Off Time (t _{off})	<10μs
Switching Frequency	Up to 500Hz

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 Drive power converter stage.
- 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.