

Installation Instructions

3BHB020720R0002 5SHY3545L0016

igct module

ABB Drives

Before work begins

- 01 Confirm the exact 3BHB020720R0002 5SHY3545L0016 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 Temp	-40°C to +125°C
Recommended Coolant Temp	5–55°C (inlet)
Configuration	Single IGCT
Voltage Rating	4500 V
Current Rating	1200 A
Critical dv/dt	1000 V/ μ s (min.)
Isolation Voltage	10 kV RMS
Mounting Force	35–45 kN
Exact Article Code	3BHB020720R0002 5SHY3545L0016
Device Designation	5SHY3545L0016

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 Converter heat-sink mounting.
- 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.