

# Installation Instructions

## **3BHB003431R0001 KUC720AE**

power control drive board

ABB Drives

## Before work begins

- 01 Confirm the exact 3BHB003431R0001 KUC720AE 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 Temperature | -25°C to +70°C            |
| Storage Temperature   | -40°C to +85°C            |
| Humidity              | 5–95% RH (non-condensing) |
| DC Bus Monitoring     | 0–1000V DC typical        |
| Logic Side            | +24V DC ( $\pm 10\%$ )    |
| Gate Drive Side       | +15V/-8V                  |
| Current Consumption   | <500mA                    |
| Gate Drive            | Peak 2A                   |
| Reinforced Isolation  | 2500V AC                  |
| Working Voltage       | 1000V DC                  |

## 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 ABB PCB assembly.
- 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.