

# Installation Instructions

**3BHE006422R0001 UNS2861C-P,V1**

drive board

UNITROL Excitation Systems

## Before work begins

- 01 Confirm the exact 3BHE006422R0001 UNS2861C-P,V1 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% non-condensing          |
| Input Voltage            | 24V DC $\pm 10\%$             |
| Gate Drive Output        | +15V/-8V (typical for IGBTs)  |
| Isolation Voltage        | 2500V AC                      |
| Current Sensing Accuracy | $\pm 1\%$ of full scale       |
| Switching Frequency      | Up to 20kHz                   |
| Exact Article Code       | 3BHE006422R0001 UNS2861C-P,V1 |
| Board Designation        | UNS2861C-P,V1                 |

## 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 Documented rack control supply.
- 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.