

Installation Instructions

3BHE013854R0001 PDD163A01

high voltage inverter board

ABB Advant OCS and Advant-800xA

Before work begins

- 01 Confirm the exact 3BHE013854R0001 PDD163A01 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 Temp	-25°C to +70°C (derating above 50°C)
Humidity	5–95% RH (non-condensing)
Vibration Resistance	5–500Hz, 2G
Voltage Rating	1200V–1700V
Input Voltage (DC Link)	300–1000V DC
Output Voltage (AC)	3-phase, 0–480V AC
Current Rating	Up to 500A
Switching Frequency	2–20 kHz
Exact Article Code	3BHE013854R0001 PDD163A01
Board Designation	PDD163A01

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.