

Installation Instructions

3BDH001000R0005 PM902F

central processing unit

ABB Advant AC800F-Freelance

Before work begins

- 01 Confirm the exact 3BDH001000R0005 PM902F 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	-40°C to +70°C
Certifications	SIL3 (IEC 61508), Class 1 Div 2
Redundancy:	Hot standby (1+1) with <100ms switchover
Storage Temperature	-40°C to +85°C
Humidity	5-95% non-condensing
Supply Voltage	24VDC (19.2-30V)
Power Consumption	12W typical
Isolation	1500VAC
Dual-Core Processor	1.2 GHz Power Architecture
Memory	512MB DDR3 RAM + 1GB Flash

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.