

PM864AK01-3BSE018161R1

Exact-identity installation and commissioning guide

PRODUCT SCOPE

ABB PM864AK01-3BSE018161R1 is an AC 800M processor-unit package built around the PM864A CPU. ABB documentation identifies the PM864A platform with a 96 MHz processor, 32 MB RAM and TP830 baseplate architecture.

Verified installation basis

Product family	AC 800M
Package designation	PM864AK01
ABB article number	3BSE018161R1
Processor unit	PM864A
Microprocessor	MPC862 at 96 MHz
Memory	32 MB SDRAM and 2 MB flash PROM
Electrical ModuleBus	Up to 12 S800 I/O units

Verified related ApterPower product pages

ABB DI811 3BSE008552R1	ABB TU831V1 3BSE013235R1
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Pre-work control

Record the installed system before any disconnection

Required checks

- Record the complete ABB PM864AK01-3BSE018161R1 identity before work.
- Place the controlled process and controller in the approved maintenance state.
- Back up the Control Builder project, application and hardware configuration.
- Record the TP830 baseplate, CEX-Bus termination and connected communication units.
- Isolate the controller supply and apply approved ESD controls before removal.
- Verify firmware, Ethernet settings, serial assignments and battery arrangement.

HOLD POINT

Confirm the complete ABB PM864AK01-3BSE018161R1 marking, installed firmware, project revision and cabinet records before replacement or commissioning.

Evidence to retain

- Complete product and installed-unit marking.
- Approved project, wiring and cabinet records.
- As-found connector, cable, address and diagnostic state.
- Acceptance plan and final results.

Verified related ApterPower product pages

ABB DSBC174 3BSE012211R1

ABB SR511 3BSE000863R1

Installation sequence

Use the approved manufacturer procedure and site work controls

1 IDENTIFY

Record the complete ABB PM864AK01-3BSE018161R1 identity before work.

2 ISOLATE

Place the controlled process and controller in the approved maintenance state.

3 RECORD

Back up the Control Builder project, application and hardware configuration.

4 VERIFY

Record the TP830 baseplate, CEX-Bus termination and connected communication units.

5 INSTALL

Isolate the controller supply and apply approved ESD controls before removal.

6 RESTORE

Verify firmware, Ethernet settings, serial assignments and battery arrangement.

CONFIGURATION CONTROL

Use the complete PM864AK01-3BSE018161R1 identity together with the installed TP830 baseplate, CEX-Bus termination, battery arrangement, firmware and approved Control Builder project. Back up the controller application and hardware configuration before replacement, then restore communications and affected I/O under a controlled acceptance plan.

Verified related ApterPower product pages

[ABB 07DI92](#)

[ABB 07KT92 GJR5250500R0902](#)

Commissioning and acceptance

Return each affected function to its approved state

Identity	Record the complete ABB PM864AK01-3BSE018161R1 identity before work.
Configuration	Verify firmware, Ethernet settings, serial assignments and battery arrangement.
Physical installation	Restore the approved application and hardware tree after installation.
Functional acceptance	Confirm diagnostics, communications and every affected I/O path before release.
Diagnostics	Confirm that no unexplained product, communication or system diagnostic remains.
Release record	Document the final configuration, observed states, test results and responsible technician.

Verified related ApterPower product pages

ABB 07KR91 GJR5250000R0101	ABB 07KP90 GJR5251000R0202
ABB 07EB62R1 GJV3074342R1	ABB 07KP60R101 GJV3074360R101

Handover record

Traceable evidence for the installed product

Final acceptance

- Isolate the controller supply and apply approved ESD controls before removal.
- Verify firmware, Ethernet settings, serial assignments and battery arrangement.
- Restore the approved application and hardware tree after installation.
- Confirm diagnostics, communications and every affected I/O path before release.

Manufacturer evidence used

- ABB AC 800M Controller Hardware, 3BSE036351-600 A, PM864/PM864A hardware and installation sections.
- ABB product identity record for PM864AK01, article number 3BSE018161R1.
- ABB AC 800M Controller and Communication Interfaces data sheet, PM864A article mapping.

Verified related ApterPower product pages

ABB 07NG61R1 GJV3074311R1

ABB 07PS62R2 GJV3074332R2

Talk to Apter Power

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

