170M5388/PC72UD13C250T 3AUA0000090404 Installation & Verification Guide

A field-focused guide for recording, exchanging and proving 170M5388/PC72UD13C250T 3AUA0000090404 within its documented ABB ACS800-67LC, ACS800-77LC and ACS800-87LC converter systems relationship.

01 Capture the installed arrangement

Record	Required evidence
Exact marking	170M5388/PC72UD13C250T 3AUA0000090404
Installed position	Cabinet, rack, slot, circuit or mechanical location
Companion hardware	Connected modules, carrier, contactor, fuse base, relay socket or field interface
Wiring / interface	Terminal numbers, connector orientation, cable identification and protective earth
Configuration	Approved settings, jumpers, software version and application baseline
Operating baseline	Normal diagnostics, status, measured values and process response

Pre-removal controls

- Prove the converter is safe before opening the chopper path.
- Reconcile ABB MRP, Bussmann and Mersen identities.
- Check the complete ABRU-02 fuse pair.
- Inspect chopper semiconductor and resistor circuits.
- Verify curve, body, terminals and indicator.
- Retain diagnostics and DC-link behavior.

Discuss the exact marking and installed application with Apter Power

sales13@apterpower.com | +86 18030235313

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02 Controlled replacement sequence

01 Plan	Send the complete 170M5388/PC72UD13C250T 3AUA0000090404 marking, revision labels, current-unit photographs and installed position.
02 Isolate	Apply the approved electrical and process isolation; prove the safe state.
03 Record	Photograph labels, terminals, connector positions, mounting details and the before-removal baseline.
04 Compare	Check the offered complete marking, rating, interface execution and included scope against the retained record.
05 Install	Fit without forced alignment; restore grounding, cable support, clearances and protective parts.
06 Configure	Restore only the approved settings and system relationship for the exact installed execution.
07 Energize	Apply power in the approved sequence and resolve abnormal diagnostics before application enable.
08 Prove	Compare the offered 170M5388/PC72UD13C250T 3AUA0000090404 interfaces, ratings and included items with the approved system record before ordering.
09 Handover	Retain readings, photographs, configuration evidence, deviation record and acceptance signatures.

Model-specific checkpoints

ABB MRP code	3AUA0000090404
Bussmann type	170M5388
Supplied marking	PC72UD13C250T
ABB manual cross-reference	Mersen PC72UD13C250TF
Protected assembly	ABRU-02 DC chopper
Documented quantity	2 fuses per ABRU-02
Protection class	High-speed semiconductor fuse
System context	ACS800 liquid-cooled wind-turbine converters
Selection boundary	Rating, melting curve, body and terminal execution

Do not assume

- A similar outline or family name proves electrical or software compatibility.
- One component rating can be applied to a complete matched system without checking its companions.
- A shortened marking is interchangeable with the complete order reference.
- A successful power-up alone proves the required process or protection function.

03 Commissioning and acceptance record

Acceptance item	Evidence to retain
Identity	Exact marking and current-unit photographs
Mechanical	Mounting, alignment, clearance and cable-support record
Electrical	Supply, protective earth, terminals, continuity and interface identity
Configuration	Approved settings, jumpers, application and companion hardware
Static result	Power-up state, diagnostics and measured baseline
Functional result	Representative process, control, relay, communication or protection proof
Release	Responsible technician, date, deviation disposition and handover signature

Targeted engineering questions

Why must the final character of the Mersen marking be checked for 170M5388/PC72UD13C250T 3AUA0000090404?	The ABB manual lists PC72UD13C250TF, while the supplied reference omits the final F; photograph the fuse label and approve the exact marking before order.
How many fuses are documented for the ABRU-02 position of 170M5388/PC72UD13C250T 3AUA0000090404?	ABB documents two fuses for each ABRU-02 DC chopper.
Which converter relationship should be recorded for 170M5388/PC72UD13C250T 3AUA0000090404?	Capture the ACS800 converter type, ABRU chopper identity, cabinet position and companion resistor circuit.
What isolation sequence applies before replacing 170M5388/PC72UD13C250T 3AUA0000090404?	Use the approved converter shutdown, lockout and DC-link discharge procedure and prove absence of hazardous voltage.
Why should the second fuse be inspected when one 170M5388/PC72UD13C250T 3AUA0000090404 fuse fails?	Both positions share the chopper protection duty, so heat damage, aging and the fault-current path must be assessed together.
Can a fuse with the same current shape automatically replace 170M5388/PC72UD13C250T 3AUA0000090404?	No. Rating, melting curve, body size, terminals and manufacturer-approved cross-reference must all agree.

Related product references

Recommended model	ABB PM511V16 3BSE011181R1
Recommended model	ABB F4332D 3HAC024322-001
Recommended model	ABB 170M6467 3AUA0000062487
Recommended model	ABB 63NHG00B-690 3ABD0001782
Recommended model	ABB A50-30-11 1SBL351001R8011
Recommended model	ABB CBHX165C 5R 414
Recommended model	ABB DRM570024LT AU 4CO 24V 3ABD00036448
Recommended model	ABB RCM 230VAC 3C/0 3ABD00029943

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