ABB 170M5388/PC72UD13C250T 3AUA0000090404

ABRU-02 DC-Chopper High-Speed Fuse

ABB 170M5388/PC72UD13C250T 3AUA0000090404 ABRU-02 DC-Chopper High-Speed Fuse with verified technical identity, model-specific selection data and controlled commissioning guidance.

01 Product identity and verified data

Complete model	170M5388/PC72UD13C250T 3AUA0000090404
Product type	ABRU-02 DC-Chopper High-Speed Fuse
Manufacturer	ABB
System / platform	ABB ACS800-67LC, ACS800-77LC and ACS800-87LC converter systems

02 Exact-model technical specifications

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

03 Engineering selection boundary

Technical basis	ABB ABRU-0x DC Choppers and Resistors Hardware Manual
Exact-marking rule	Use the complete order reference; do not infer an adjacent suffix or execution.
Installed relationship	ABB ACS800-67LC, ACS800-77LC and ACS800-87LC converter systems
Companion check	Record connected modules, carrier, socket, protection and interface identities.
Field confirmation	Compare labels, interfaces, companion hardware and approved drawings before release.
Release gate	Resolve every identity or compatibility discrepancy in the written offer.

03 Engineering overview

ABB documents 170M5388 as the Bussmann fuse type used in the ABRU-02 DC chopper, with two fuses per chopper. The same table cross-references Mersen PC72UD13C250TF.

The supplied marking PC72UD13C250T differs by one final character from the ABB manual cross-reference, so the body label and complete MRP code 3AUA0000090404 must be photographed and matched before approval.

Replacement requires the converter isolation and DC-link discharge procedure, examination of the failed-current path and comparison of both fuse positions. A fuse should not be energized until the chopper and associated resistor circuit are cleared for service.

Product characteristics

- DC-chopper protection: The fuse pair protects the ABRU-02 power path in documented ACS800 liquid-cooled converter assemblies.
- Cross-manufacturer identity: ABB records Bussmann 170M5388 and Mersen PC72UD13C250TF for the same ABRU-02 fuse position.
- Matched replacement pair: Quantity and complete electrical/mechanical execution are checked before changing either fuse.

Application map

ABRU-02 DC-chopper protection

Provide the documented high-speed fuse pair for the chopper power path.

ACS800 wind-converter maintenance

Retain converter type, chopper identity and fuse arrangement.

Semiconductor fault containment

Coordinate fuse replacement with inspection of power semiconductors and resistor circuits.

Cross-reference verification

Reconcile Bussmann, Mersen and ABB MRP markings before order approval.

Lifecycle status

Installed-base drive spare

Available unit details

Supply scope	the 170M5388/PC72UD13C250T 3AUA0000090404 abru-02 dc-chopper high-speed fuse; companion hardware only when itemized
Dispatch	Swift global dispatch
Selection basis	Complete marking and written quotation

04 Installation and product precautions

Discharge the DC link

Prove the converter is safe before opening the chopper path.

Confirm both markings

Reconcile ABB MRP, Bussmann and Mersen identities.

Inspect both fuse positions

Check the complete ABRU-02 fuse pair.

Investigate the fault path

Inspect chopper semiconductor and resistor circuits.

Technical notes

Exact identity	170M5388/PC72UD13C250T 3AUA0000090404
Documented function	ABRU-02 DC-Chopper High-Speed Fuse
Technical evidence	ABB ABRU-0x DC Choppers and Resistors Hardware Manual
Evidence boundary	Only the documented ABB ACS800-67LC, ACS800-77LC and ACS800-87LC converter systems relationship and stated exact-model values are applied
Commissioning record	Retain installed markings, configuration and functional proof

Controlled verification sequence

01	Send the complete 170M5388/PC72UD13C250T 3AUA0000090404 marking, revision labels, current-unit photographs and installed position.
02	Isolate the approved circuit and record every installed connection before removal.
03	Compare exact markings, interface positions and companion hardware before fitting the offered unit.
04	Restore power in the approved sequence and check diagnostics before enabling the application.
05	Compare the offered 170M5388/PC72UD13C250T 3AUA0000090404 interfaces, ratings and included items with the approved system record before ordering.
06	Retain photographs, readings, configuration records and responsible acceptance signatures.

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.

05 Model-specific technical FAQ

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.
What circuit checks follow replacement of 170M5388/PC72UD13C250T 3AUA0000090404?	Inspect the chopper semiconductor path, resistor connections, insulation and mounting torque before controlled energization.
What evidence completes acceptance of 170M5388/PC72UD13C250T 3AUA0000090404?	Retain both fuse markings, continuity and insulation results, chopper diagnostics and the controlled energization record.

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

Commissioning record to retain

Installed asset	Machine, cabinet, channel and drawing reference
Identity proof	Complete markings and photographs
Configuration proof	Approved settings and companion-hardware record
Functional proof	Diagnostics, measured response and acceptance signatures

Discuss the exact marking and installed application with Apter Power

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https://www.apterpower.com/ABB/ABB-Drives/3aua0000090404-170m5388-pc72ud13c250t

Scan the QR code for direct contact and quotation support.