ABB F4332D 3HAC024322-001

IRC5 Panel-Mounted Controller Mains Line Filter

ABB F4332D 3HAC024322-001 IRC5 Panel-Mounted Controller Mains Line Filter with verified technical identity, model-specific selection data and controlled commissioning guidance.

01 Product identity and selection data

Complete model	F4332D 3HAC024322-001
Product type	IRC5 Panel-Mounted Controller Mains Line Filter
Manufacturer	ABB
System / platform	ABB IRC5 Panel Mounted Controller, large execution

02 Exact-model technical capability map

ABB article number	3HAC024322-001
Marking reference	F4332D
Documented function	Mains line filter
Controller execution	Panel Mounted Controller, large
Equipment status	Standard for PMC large
Installation area	Controller power-entry path

Replacement identification	Serial number, article number and revision
Service boundary	Line-side and controller-side conductors
Commissioning boundary	Protective earth, isolation and controller startup

03 Engineering role and selection boundary

Controller-entry filtering
The component belongs to the mains path of the large IRC5 panel-mounted controller.

Execution-specific spare
ABB assigns 3HAC024322-001 to PMC large, distinct from the filter used in the small controller execution.

Safety-recorded replacement
Serial number, article number and revision are retained for both removed and replacement units.

Exact marking
Approve the complete order reference only after the installed interfaces and companion hardware agree.

Technical basis	ABB Product Manual for IRC5 Panel Mounted Controller, article 3HAC024322-001
Installed relationship	ABB IRC5 Panel Mounted Controller, large execution
Release gate	Resolve identity, interface and compatibility differences in the written offer before release.

04 Engineering overview and system application

ABB identifies 3HAC024322-001 as the mains line filter supplied as standard for the large IRC5 Panel Mounted Controller execution. The F4332D marking is retained as part of the offered identity.

Selection is based on the complete article number and the installed PMC-large power arrangement. Supply conductors, protective earth, mounting points and adjacent controller power components must be documented before removal.

After replacement, verify protective-earth continuity, conductor torque, insulation condition and controller diagnostics before controlled robot energization. The robot safety and application records remain unchanged unless separately approved.

Application map

IRC5 PMC-large power entry

Provide the documented mains-filter component in the large panel-mounted controller.

Robot-controller maintenance

Restore conductor identity, protective earth and mounting geometry.

Electrical-noise control

Retain the installed filtered mains path and cabinet bonding arrangement.

Spare-part verification

Match 3HAC024322-001, F4332D marking and PMC-large execution.

Lifecycle and available-unit boundary

Lifecycle status	Installed-base robot-controller spare
Supply scope	the F4332D 3HAC024322-001 irc5 panel-mounted controller mains line filter; companion hardware only when itemized
Dispatch	Swift global dispatch
Selection basis	Complete marking, installed relationship and written quotation

Technical notes and evidence boundary

Exact identity	F4332D 3HAC024322-001
Documented function	IRC5 Panel-Mounted Controller Mains Line Filter
Technical evidence	ABB Product Manual for IRC5 Panel Mounted Controller, article 3HAC024322-001
Evidence boundary	Only the documented ABB IRC5 Panel Mounted Controller, large execution relationship and stated exact-model values are applied
Commissioning record	Retain installed markings, configuration and functional proof

Additional verified exact-model data

Evidence scope	No adjacent-model value is applied without a documented exact-model relationship.

05 Installation and product precautions

Isolate the robot controller
Lock out mains and prove stored energy discharged.

Label line and load
Record all power and protective-earth conductors.

Preserve the PMC execution
Match the large panel-mounted controller arrangement.

Inspect mounting
Check filter supports, insulation and cabinet clearances.

Verify earth continuity
Complete the approved protective-bond test.

Energize under control
Start the controller with robot motion inhibited.

Controlled verification sequence

01 Record	Send the complete F4332D 3HAC024322-001 marking, revision labels, current-unit photographs and installed position.
02 Isolate	Apply the approved isolation and prove the safe state before disturbing the installed arrangement.
03 Compare	Reconcile the complete marking, interfaces, companion hardware and approved system record.
04 Prove	Compare the offered F4332D 3HAC024322-001 interfaces, ratings and included items with the approved system record before ordering.
05 Handover	Retain photographs, settings, readings, diagnostics and accepted deviations.

Engineering decision questions

How can the PMC-large application of F4332D 3HAC024322-001 be confirmed?
Check the controller type plate and ABB parts list; 3HAC024322-001 is documented as the mains line filter for PMC large.

Which conductors should be recorded before removing F4332D 3HAC024322-001?
Label line-side input, controller-side output and protective-earth conductors and photograph their routing and termination.

Why must the article number and revision of F4332D 3HAC024322-001 be retained?
ABB requires the removed and replacement serial, article and revision data to preserve controller service traceability.

What isolation checks apply before servicing F4332D 3HAC024322-001?
Follow the approved robot-controller lockout, prove the mains path de-energized and wait for all specified stored-energy discharge periods.

Verified related product pages

Recommended product	ABB PM511V16 3BSE011181R1
Recommended product	ABB 170M5388/PC72UD13C250T 3AUA0000090404
Recommended product	ABB 170M6467 3AUA0000062487
Recommended product	ABB 63NHG00B-690 3ABD0001782

Discuss the complete marking and installed application with Apter Power

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Scan the approved QR code for direct contact and quotation support.