

Allen-Bradley 1336-RFB-30-A-4

Filter selection boundary

Allen-Bradley 1336-RFB-30-A-4 is a three-phase 380-480 V input RFI filter for the specified A4-frame 1336 drive combinations, with the manufacturer catalog identity 1336-RFB-30-A4.



Manufacturer catalog alias	1336-RFB-30-A4
Supply configuration	Three-phase
Input voltage class	380-480 V AC
Drive frame	A4
Power dissipation	35 W

PLUS / PLUS II compatibility	1336S/F-BRF75 through BRF200
IMPACT compatibility	1336E-BRF75 through BRF100
FORCE compatibility	N/A for 1336-RFB-30-A4

This filter is upstream of a listed A4 drive. It is not an output-side motor filter; BRF10 A1 is outside this A4 selection.

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Line, load and protective earth

Line terminals	L1 / L2 / L3
Load terminals	L1' / L2' / L3'
Drive input terminals	R (L1) / S (L2) / T (L3)

Protective-earth terminals E / E'

SUPPLY ARRANGEMENT

Balanced and grounded at nominal voltage. Grounded-delta is not suitable for this installation.

INCOMING CONDUIT

Use conduit or equivalent shielded/armored treatment on the AC entry. Keep the incoming and filtered load connections distinct.

SHIELD AND PE ARE DIFFERENT

Maintain the solid E / E' connection despite the shielded cable route. Leakage current makes the protective-earth path essential.

MOTOR CABLE GROUNDING

At the drive end, connect the motor protective conductor directly to the drive grounding terminal, not only the cabinet bus. At the motor end, connect to its frame.

BOND BOTH ENDS

Bond the shield at the filter/drive end and to the motor frame at the motor end. All entering and leaving power routes use shielded or armored treatment.

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Mounting and EMC installation

Conducted-RFI reduction

Places an input filter ahead of a supported A4 drive to reduce interference returned to AC supply and ground conductors.

A4 drive-panel integration

Combines the listed PLUS/PLUS II or IMPACT drive with the Figure 2 common-back-panel mounting arrangement.

EMC enclosure installations

Supports an installation using the required drive enclosure designation or fitted EMC enclosure kit, with positive bonding.

Shielded power-cable routing

Maintains shielded or armored incoming and motor paths with distinct line/load wiring and protective-earth connections.

Mount together Common back panel, close filter/drive position

Bond all corners Positive metal-to-metal electrical path

Keep EMC conditions -AE enclosure or correctly installed enclosure kit

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Installation checks and included hardware

- 01

Isolate the incoming supply before installation or service; use qualified drive installers.
- 02

Match the 380-480 V A4 filter entry to the listed PLUS/PLUS II or IMPACT drive combination.
- 03

Use a balanced grounded supply; do not connect the filter to a grounded-delta arrangement.
- 04

Keep L1/L2/L3 on the supply side and the primed load terminals on the drive-input side.
- 05

Mount filter and drive close together on a common back panel with positive corner bonding.
- 06

Provide a solid E / E' protective-earth path because filter leakage current is present.
- 07

Route shielded or armored cables; connect motor protective earth directly to the drive and motor frame.
- 08

Check the -AE enclosure or fitted EMC kit and recheck every bond and terminal before energizing.

Hardware set	1 filter; 1 EMT conduit; 1 EMT fitting
Fastener set	4 screws; 4 flat washers; 4 star washers; 4 nuts
Filter series	A; Figure 2 mounting group

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Engineering decisions and safe work

Which A4 drive combinations are listed for 1336-RFB-30-A-4?

The 1336-RFB-30-A4 row lists PLUS/PLUS II 1336S/F-BRF75 through BRF200 and IMPACT 1336E-BRF75 through BRF100. FORCE is marked N/A for this filter entry.

Can the 1336-RFB-30-A filter replace 1336-RFB-30-A-4?

They have different voltage and frame assignments. The 30-A entry is 200-240 V for A3; the confirmed 30-A4 entry is 380-480 V for A4 and lists 35 W dissipation.

Where do the line and load connections of 1336-RFB-30-A-4 go?

Incoming AC connects to L1, L2 and L3. The primed load terminals L1', L2' and L3' connect to drive inputs R (L1), S (L2) and T (L3). The filter belongs upstream of the drive, not in the motor-output circuit.

Is a grounded-delta supply suitable for 1336-RFB-30-A-4?

No. The input-filter installation requires a balanced, grounded nominal-voltage supply and excludes grounded-delta arrangements.

Why does 1336-RFB-30-A-4 require a solid protective-earth connection?

Filter leakage current makes a sound protective-earth path essential. Connect the E / E' grounding points as shown in the wiring arrangement before operation; do not treat the signal cable shield as the protective conductor.

What enclosure condition accompanies an EMC installation of 1336-RFB-30-A-4?

The drive must have the -AE enclosure designation or the correctly installed 1336x-AEx EMC enclosure kit. Adding an input filter alone does not establish that enclosure condition.

How should 1336-RFB-30-A-4 and its drive be mounted for Figure 2?

Mount them close together on a common back panel with positive electrical bonding at all four corners. Star washers may be omitted only where that positive bond is otherwise assured.

Can the motor protective conductor for a 1336-RFB-30-A-4 installation end only at the cabinet bus?

The motor cable protective conductor connects directly to the drive grounding terminal at the drive end and to the motor frame at the other end. Bond the shield at the filter/drive and motor-frame ends rather than replacing these connections with a cabinet-bus-only route.

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Evidence, service boundary and portfolio

MANUFACTURER EVIDENCE

Input RFI Filters / Filtros RFI de Entrada Installation Instructions

RF-101ML-PT, December 1999; P/N 74103-446-01 (06)

The unchanged Portuguese manufacturer manual is provided separately. Its 1336-RFB-30-A4 row supports the confirmed catalog alias, electrical class and drive-selection matrix; the installation sections support wiring and bonding instructions.

KEEP THE SELECTION BOUNDARY

The manufacturer alias is 1336-RFB-30-A4. The separate 200-240 V 30-A / A3 entry and FORCE examples do not change the supported A4 drive combinations.

DOCUMENT ACCESS

Manuals 1 is this filter technical dossier; Manuals 2 is the unchanged 18-page Portuguese manufacturer installation manual.

RELATED 1336 PORTFOLIO

Navigation only, not compatible replacements or verified filter pairings.

[View Allen-Bradley 1336T-LM1EN page](#)

[View Allen-Bradley 1336F-BRF10-AA-EN page](#)

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BRF10 is an A1 drive and is not a pairing recommendation for the A4 filter. Related links are separate portfolio navigation.