

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

01 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
Filter series	A
Drive frame	A4
Power dissipation	35 W

A4 host-selection matrix

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

EXCLUDE THE SIMILAR 30-A ENTRY

1336-RFB-30-A is a 200-240 V A3 filter. Its separate entry does not describe the confirmed 380-480 V A4 product.

CURRENT VALUE NOT INFERRED

The table identifies the catalog number, frame and power dissipation. Do not turn the digits 30 into an unsupported current rating.

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02 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 decision and cable treatment

AC SOURCE REQUIREMENT

Use a balanced, grounded supply at the filter voltage class. A grounded-delta arrangement is excluded by the input-filter installation instructions.

SOLID EARTH CONNECTION

Provide the E / E' protective-earth connections. Filter leakage current requires a reliable ground; shield bonding is not a replacement for protective earth.

POWER-CABLE ROUTES

Route the incoming supply through conduit or a shielded/armored equivalent. Keep the filter load route connected to drive input, not motor output.

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03 Mounting and EMC installation

Arrangement	Figure 2 common back panel
Electrical bond	Positive bonding at all four corners
Relative position	Filter and drive close together
Enclosure condition	Drive -AE or correctly installed 1336x-AEx EMC kit

Included hardware for the 30-A4 group

Included filter	1
Included EMT conduit / fitting	1 / 1
Included screws / flat washers	4 / 4
Included star washers / nuts	4 / 4

STAR-WASHER CONDITION

Use the supplied mounting arrangement to establish the positive electrical bond. Omit star washers only if that positive bond is otherwise assured.

FILTER ALONE IS NOT THE ENCLOSURE KIT

A filter connection does not create an -AE enclosure. Check the ordered drive enclosure or the installed EMC kit as a separate integration requirement.

The included EMT conduit and fitting form part of the documented close-coupled route. Preserve the mechanical mounting hardware and electrical bonding together.

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04 Engineering decisions and safe work

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.

Installation checks in the power path

- 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.

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05 Evidence, service boundary and portfolio

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.

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.

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.

RELATED 1336 PORTFOLIO

Navigation only, not compatible replacements or verified filter pairings.

[View Allen-Bradley 74101-371-52 page](#)

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