

Allen-Bradley 1336F-BRF10-AA-EN

Identity and power path

Allen-Bradley 1336F-BRF10-AA-EN is an A1-frame 1336 PLUS II adjustable-frequency drive with a 0.75 kW / 1 HP constant-torque rating, a 380-480 V AC input class and an IP20 enclosure.

INPUT ALTERNATIVES

BR voltage code

A1 / BRF10

Motor control stage

MOTOR LOAD

Duty-specific current

0.75 kW / 1 HP

Constant-torque power

2.1 A CT

Rated constant-torque output

AA / IP20

0 to 40 C operating ambient

EN

English language; not a network option

The drive converts the selected AC or DC input into a variable-frequency motor output. Match the motor, load duty, installed control options and programmed acceleration/deceleration to the complete drive identity; constant-torque and variable-torque current ratings are different.

Allen-Bradley 1336F-BRF10-AA-EN

Duty-specific electrical data

CT supply / power	380-480 V AC / 0.75 kW (1 HP)
CT input	1.7-2.1 kVA / 2.6 A
CT output	1.7 kVA / 2.1 A
VT at 480 V: input	2.2 kVA / 2.8 A
VT at 480 V: output	1.8 kVA / 2.3 A
VT at 400 V: input	1.8 kVA / 2.8 A
VT at 400 V: output	1.8 kVA / 2.55 A

FULL RATING / DERATING

Three-phase AC is the full-rated arrangement. Single-phase A/B-frame operation requires 50% derating.

Input voltage code	BR: 380-480 V AC or 513-620 V DC
Full-rated AC supply	Three-phase; A/B-frame single-phase use requires 50% derating
AC input frequency	47-63 Hz
Input voltage tolerance	-10% of minimum / +10% of maximum
Output frequency	0-400 Hz
Output voltage	0 to rated voltage
A/B-frame PWM carrier	2-8 kHz; drive rating is based on 4 kHz
CT overload capability	150% for 1 minute
VT overload capability	115% for 1 minute
Acceleration / deceleration	Two independently programmable sets, 0-3600 s

Allen-Bradley 1336F-BRF10-AA-EN

Operating envelope and interfaces

IP20 operating temperature 0 to 40 C

Storage temperature -40 to 70 C

Relative humidity 5-95%, non-condensing

Altitude without derating 1000 m maximum

**AC overvoltage /
undervoltage trip** 570 V / 280 V for the 380-480 V class

**DC bus overvoltage /
undervoltage trip** 810 V / 400 V

Nominal DC bus voltage 648 V

AA IS NOT AE

The AA code identifies IP20 / NEMA Type 1. Do not assign the separate AE EMC enclosure designation.

INPUT / MOTOR INTERFACES

The AC path uses R/L1, S/L2 and T/L3 input terminals; U/T1, V/T2 and W/T3 form the motor path. Retain protective grounding.

UNLISTED OPTIONS

Identify the installed HIM, control-interface and communication options from the unit and its retained record, not from EN.

A1 EXCLUSIONS

TB4/TB6 auxiliary terminals belong to B and larger frames. TB9 auxiliary terminals belong to F frames.

Allen-Bradley 1336F-BRF10-AA-EN

Engineering decisions

Which supply arrangements does BR permit on 1336F-BRF10-AA-EN?

BR identifies 380-480 V AC or 513-620 V DC. These are alternative input arrangements, not two simultaneous supply connections; F10 identifies the 0.75 kW / 1 HP constant-torque rating.

Does the AA enclosure on 1336F-BRF10-AA-EN include the AE EMC designation?

No. AA identifies IP20 / NEMA Type 1. AE is a separate EMC enclosure code, so the AA marking must not be presented as an AE configuration.

Does EN on 1336F-BRF10-AA-EN establish an installed HIM or network card?

EN selects the English language group. HIM and communication selections use separate option codes; identify any installed option from the actual unit and its configuration record.

Which output current belongs to the constant-torque BRF10 rating?

Use 2.1 A for constant-torque output. Variable-torque output is listed separately as 2.3 A at 480 V or 2.55 A at 400 V; those figures must not replace the constant-torque value.

How can parameter 61 help identify a BRF10 drive?

Drive Type is read-only, and the BRF10 entry is 8707. Use that identification alongside the complete catalog marking; it does not establish the installed option cards or firmware revision.

Can the A1 BRF10 keep its full three-phase rating on a single-phase AC supply?

No. A/B-frame single-phase operation requires 50% derating. The full-rated three-phase current table is not a single-phase rating.

Why should the IP00 ambient limit not be copied to 1336F-BRF10-AA-EN?

The AA enclosure is IP20, whose operating ambient range is 0 to 40 C. The 0 to 50 C range belongs to the open IP00 arrangement.

Which auxiliary terminal descriptions do not apply to the BRF10 A1 frame?

TB4/TB6 auxiliary terminals are described for B frames and larger, while TB9 is for F frames. Do not assign either larger-frame arrangement to an A1 drive.

Allen-Bradley 1336F-BRF10-AA-EN

Applications and controlled service

Constant-torque motor control

Applies the 0.75 kW / 1 HP rating and 2.1 A output limit to a correctly matched constant-torque motor load.

Variable-torque duty selection

Keeps the 400 V and 480 V variable-torque current entries distinct when assessing the intended load.

Programmed speed transitions

Uses the independently programmable acceleration/deceleration sets for the validated machine speed profile.

Legacy 1336 PLUS II renewal

Retains the BR supply class, A1 frame, AA enclosure and English language identity without assuming unlisted control options.

- 01** Match the complete 1336F-BRF10-AA-EN marking and the installed control-option record.
- 03** Remove all power and measure 0.0 V DC across the TB1 bus terminals before access.
- 05** Use grounded ESD controls when handling drive electronics and installed option cards.
- 07** Keep IP20 ambient conditions within 0 to 40 C and apply any required supply or carrier derating.
- 02** Place the connected motor and machine in a controlled maintenance state before work.
- 04** Record the chosen AC or DC input arrangement; do not treat the BR alternatives as simultaneous inputs.
- 06** Retain the A1 wiring arrangement and protective grounding; exclude larger-frame auxiliary terminals.
- 08** Review duty-specific current limits, programmed control and drive status before restoring machine operation.

Allen-Bradley 1336F-BRF10-AA-EN

Source, related portfolio and contact

MANUFACTURER SOURCE

1336 PLUS II Adjustable Frequency AC Drive User Manual

1336 PLUS-5.3, September 2005

Catalog decoding and A1/BRF10 entries are used with the applicable common drive limits. Installed options and the physical unit's firmware revision remain separate verification items.

READING THE MANUAL EXCERPT

Manuals 2 preserves original manufacturer PDF pages 2-10, 19-34, 49-56, 157-162 and 197-201. It is not the complete 212-page manual.

BRF10 SELECTION BOUNDARY

Keep constant-torque, variable-torque, enclosure and frame-specific data in their own contexts. Larger-frame examples and unlisted options are not installed-unit specifications.

Explore the 1336 portfolio

Product navigation only. These items are not declared compatible replacements for BRF10.

[View Allen-Bradley 1336-L4 42336-200-51 page](#)

[View Allen-Bradley 1336T-LM1EN-74103-015-52A page](#)

[View Allen-Bradley 1336-MOD-KC005 page](#)

CONTACT APTER POWER

PHONE / WHATSAPP

+86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



1336F-BRF10-AA-EN