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› Fasco D121 3.3-Inch General Purpose Motor Instruction Manual

Fasco D121

Fasco D121 3.3-Inch General Purpose Motor Instruction Manual

Model: D121

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco D121 3.3-inch General Purpose Motor. Please read these instructions thoroughly before attempting to install or operate the motor. Retain this manual for future reference.

The Fasco D121 is a 1/70 HP, 115 Volt, 1500 RPM motor designed for various general-purpose applications, commonly used in fan systems. It features an Open Air Over (OAO) enclosure, Counter-Clockwise Shaft End (CCWSE) rotation, and sleeve bearings.



Image 1.1: Fasco D121 3.3-Inch General Purpose Motor. This image shows the compact design of the motor, highlighting its shaft and electrical connections.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Disconnect power before servicing. Installation and wiring should be performed by a qualified electrician in accordance with all local and national electrical codes.

- Always ensure the power supply matches the motor's voltage and frequency ratings.
- Do not operate the motor in wet or damp conditions unless specifically designed for such environments.
- Ensure proper grounding to prevent electrical shock.
- Keep hands, tools, and clothing clear of moving parts during operation.
- Protect the motor from excessive dust, debris, and corrosive atmospheres.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- One (1) Fasco D121 3.3-Inch General Purpose Motor

4. SPECIFICATIONS

Feature	Specification
Brand	Fasco
Model Name	D121
Horsepower (HP)	1/70 HP
Voltage	115 Volts
Speed	1500 RPM
Amperage	0.7 Amps
Enclosure Type	OAO (Open Air Over)
Rotation	CCWSE (Counter-Clockwise Shaft End)
Bearing Type	Sleeve Bearing
Material	Copper
Item Weight	2.3 pounds
Package Dimensions	8.4 x 3.8 x 3.7 inches

5. SETUP AND INSTALLATION

Proper installation is crucial for the motor's performance and longevity. If you are unsure about any step, consult a qualified professional.

- Power Disconnection:** Ensure all power to the installation area is disconnected at the circuit breaker or fuse box before beginning any work.
- Mounting:** Securely mount the motor using appropriate fasteners and mounting brackets. Ensure the motor is stable and free from excessive vibration. The motor is designed for air-over applications, meaning it relies on airflow from the driven equipment for cooling.
- Shaft Connection:** Connect the motor shaft to the driven equipment (e.g., fan blade) using a suitable coupling or direct attachment. Ensure the connection is tight and aligned to prevent imbalance and premature wear. The shaft size is 1/4-inch x 2-1/4-inch.
- Wiring:** Connect the motor to the power supply according to the wiring diagram provided with your specific application or equipment. Ensure all electrical connections are secure, insulated, and comply with local electrical codes. The motor is rated for 115 Volts.
- Grounding:** Properly ground the motor to prevent electrical hazards.
- Clearance:** Ensure adequate clearance around the motor for proper airflow and cooling, especially for OAO (Open Air Over) designs.

6. OPERATING INSTRUCTIONS

Once installed and wired correctly, the Fasco D121 motor is ready for operation.

- Initial Start-up:** After verifying all connections and safety measures, restore power to the circuit.
- Monitoring:** Observe the motor during its initial operation for any unusual noises, vibrations, or signs of overheating.

3. **Normal Operation:** The motor is designed for continuous duty within its specified ratings. Ensure the driven equipment does not exceed the motor's capabilities.
4. **Shut-down:** To stop the motor, disconnect power to the circuit.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your motor. Always disconnect power before performing any maintenance.

- **Cleaning:** Periodically clean the exterior of the motor to remove dust, dirt, and debris that can impede cooling. Use a soft brush or compressed air. Do not use water or solvents directly on the motor.
- **Inspection:** Regularly inspect the motor for signs of wear, damage, or loose connections. Check mounting bolts for tightness.
- **Lubrication:** The Fasco D121 motor uses sleeve bearings. These bearings are typically permanently lubricated and do not require additional lubrication under normal operating conditions. If the motor is operating in extreme conditions or after many years of service, consult a motor specialist for advice on lubrication.
- **Ventilation:** Ensure that the airflow path for cooling remains unobstructed.

8. TROUBLESHOOTING

Before attempting any troubleshooting, ensure power is disconnected. If you cannot resolve an issue, contact a qualified technician.

Problem	Possible Cause	Solution
Motor does not start	No power supply Incorrect wiring Motor overload Seized bearings	Check power source and circuit breaker Verify wiring against diagram Reduce load or check for obstructions Inspect bearings for damage or foreign objects
Motor overheats	Insufficient ventilation Motor overload High ambient temperature Bearing friction	Clear obstructions around motor Reduce load on motor Ensure operating environment is within limits Check bearings for wear or lack of lubrication
Excessive noise or vibration	Loose mounting Unbalanced driven equipment Worn bearings Foreign object in motor	Tighten mounting bolts Inspect and balance fan blade or other equipment Inspect and replace worn bearings Disconnect power and carefully inspect motor interior

9. WARRANTY AND SUPPORT

Fasco products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided at the time of purchase or visit the official Fasco website. For technical support, parts, or service inquiries, please contact Fasco customer service directly.

It is recommended to have your purchase receipt and motor model number (D121) available when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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