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› Fasco D624 3.3" Frame Totally Enclosed Shaded Pole General Purpose Motor with Sleeve Bearing, 1/50HP, 1500rpm, 230V, 60Hz, 0.4 amps

Fasco D624

Fasco D624 General Purpose Motor Instruction Manual

Model: D624

1. INTRODUCTION AND PRODUCT OVERVIEW

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Fasco D624 General Purpose Motor. Please read this manual thoroughly before using the product and retain it for future reference.

The Fasco D624 is a 3.3-inch frame, totally enclosed, shaded pole general purpose motor equipped with sleeve bearings.

Key Features:

- Totally enclosed shaded pole general purpose motor with sleeve bearing
- Thermally protected for enhanced safety and longevity
- Clockwise shaft end rotation
- CSA or ULc certified, UL recognized for compliance with safety standards
- Shaft measures 1/4" diameter by 2-1/4" length

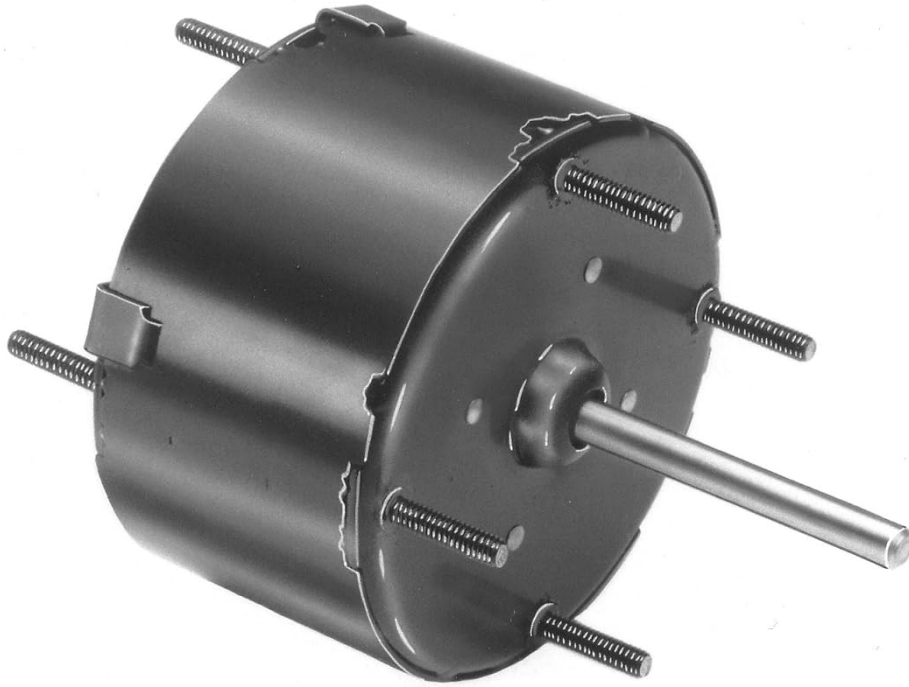


Figure 1: Fasco D624 General Purpose Motor. This image displays the Fasco D624 motor, featuring its cylindrical black casing and the output shaft. Four threaded mounting studs are visible on the motor's face, indicating its design for secure installation in various equipment.

2. SAFETY INFORMATION

WARNING: To reduce the risk of electric shock, fire, or injury, always follow these basic safety precautions.

- **Disconnect Power:** Always disconnect power to the motor and the equipment it is connected to before performing any installation, maintenance, or troubleshooting.
- **Qualified Personnel:** Installation and wiring should only be performed by qualified and licensed electricians in accordance with all applicable national and local electrical codes.
- **Grounding:** Ensure the motor is properly grounded to prevent electrical shock.
- **Thermal Protection:** This motor is thermally protected. Do not bypass or modify the thermal protection device.
- **Ventilation:** Ensure adequate ventilation around the motor to prevent overheating. Although totally enclosed, proper airflow can aid in heat dissipation.
- **Moving Parts:** Keep hands, hair, and clothing away from moving parts during operation.
- **Environmental Conditions:** Do not expose the motor to excessive moisture, dust, or corrosive environments beyond its intended design.

3. SETUP AND INSTALLATION

Proper installation is crucial for the motor's performance and longevity.

3.1 Mounting:

- Mount the motor securely using the four threaded studs on the motor's face. Ensure all mounting points are

tightened evenly to prevent vibration.

- The motor should be mounted on a stable, flat surface capable of supporting its weight and the forces generated during operation.
- Ensure proper alignment of the motor shaft with the driven component to prevent excessive wear on bearings and couplings.

3.2 Electrical Connection:

- Verify that the power supply voltage (230V, 60Hz) matches the motor's specifications.
- Connect the motor wiring according to the wiring diagram provided with your specific application or equipment. If no diagram is available, consult a qualified electrician.
- Ensure all electrical connections are secure and insulated to prevent short circuits.
- Confirm proper grounding of the motor frame.

4. OPERATING INSTRUCTIONS

Once installed and wired correctly, the Fasco D624 motor is ready for operation.

- **Initial Start-up:** Before the first operation, manually check that the shaft rotates freely and there are no obstructions.
- **Power On:** Apply power to the motor. The motor should start smoothly and reach its rated speed of 1500 RPM.
- **Rotation Direction:** The motor is designed for clockwise shaft end rotation. Verify this is suitable for your application.
- **Monitoring:** During initial operation, monitor the motor for unusual noises, excessive vibration, or signs of overheating. If any issues are observed, immediately disconnect power and refer to the Troubleshooting section.
- **Load:** Do not overload the motor beyond its rated horsepower (1/50 HP) and current (0.4 amps). Overloading can lead to overheating and premature failure.

5. MAINTENANCE

The Fasco D624 motor is designed for low maintenance. Regular inspection can help ensure long-term reliability.

- **Cleaning:** Periodically clean the exterior of the motor to remove dust, dirt, and debris. A clean motor dissipates heat more effectively. Ensure power is disconnected before cleaning.
- **Sleeve Bearings:** This motor features sleeve bearings. These bearings are typically pre-lubricated for life and generally do not require additional lubrication under normal operating conditions. Avoid disassembling the motor for lubrication unless specifically instructed by Fasco technical support.
- **Inspection:** Regularly inspect the motor for any signs of physical damage, loose connections, or unusual wear. Check mounting bolts for tightness.
- **Ventilation:** Ensure that the motor's ventilation openings (if any, for air-over designs) are not obstructed.

6. TROUBLESHOOTING

If the motor is not operating as expected, refer to the following common issues and solutions. Always disconnect power before attempting any troubleshooting.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Motor does not start.	No power supply; Incorrect wiring; Thermal overload tripped; Seized shaft/bearings.	Check power source and circuit breaker; Verify wiring against diagram; Allow motor to cool and reset thermal protector (if automatic); Check for obstructions or damage to shaft/bearings.
Motor overheats.	Overload; Insufficient ventilation; High ambient temperature; Incorrect voltage.	Reduce load; Ensure clear airflow around motor; Operate within specified temperature range; Verify correct supply voltage.
Excessive noise or vibration.	Loose mounting; Misalignment of shaft; Worn bearings; Foreign object.	Tighten mounting bolts; Check and correct shaft alignment; Inspect bearings for wear (consult professional if needed); Inspect for and remove any foreign objects.
Motor runs slowly or with reduced power.	Low voltage; Overload; Partial winding failure.	Verify supply voltage; Reduce load; Consult a qualified technician for motor inspection.

If the problem persists after attempting these solutions, contact Fasco customer support or a qualified motor technician.

7. SPECIFICATIONS

The following are the technical specifications for the Fasco D624 General Purpose Motor:

Attribute	Value
Model Number	D624
Frame Size	3.3 inches
Motor Type	Totally Enclosed Shaded Pole General Purpose Motor
Bearing Type	Sleeve Bearing
Horsepower (HP)	1/50 HP (0.02 hp)
Speed	1500 RPM
Voltage Rating	230 Volts
Frequency	60 Hz
Current (Amps)	0.4 Amps
Shaft Dimensions	1/4" diameter x 2-1/4" length
Motor Length	2-1/2"
Product Dimensions	8.5 x 3.8 x 4 inches
Weight	3 Pounds
Certifications	UL recognized, CSA or ULc certified
Rotation	Clockwise shaft end rotation

8. WARRANTY AND SUPPORT

For information regarding the warranty of your Fasco D624 motor, please refer to the warranty documentation provided at the time of purchase or visit the official Fasco website.

For technical support, service, or replacement parts, please contact Fasco customer service directly.

Manufacturer: Fasco Motors

Brand: Fasco