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› Fasco D310 Shaded Pole Motor Instruction Manual

Fasco D310

Fasco D310 Shaded Pole Motor Instruction Manual

Model: D310

1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your Fasco D310 Shaded Pole Motor. Please read this manual thoroughly before using the product and retain it for future reference. This motor is designed for general purpose applications, including use in Leslie Locke ventilators (original P/N 7108-5056).

2. SAFETY INFORMATION

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

- Ensure the motor is properly grounded.
- Do not operate the motor in wet or damp conditions unless specifically rated for such environments.
- Protect wiring from sharp edges and moving parts.
- Verify that the power supply voltage and frequency match the motor's specifications.
- This motor is thermally protected. If it overheats and shuts off, allow it to cool before attempting to restart. Investigate the cause of overheating.
- Keep hands and loose clothing away from moving parts during operation.

3. PRODUCT OVERVIEW

The Fasco D310 is a 4.4-inch frame, open ventilated, shaded pole general purpose motor. It features sleeve bearings and is designed for air-over applications. The motor operates on 115V AC power at 60Hz and has a 1/12 horsepower rating with a speed of 1550 RPM.



Figure 1: Fasco D310 Shaded Pole Motor. This image displays the cylindrical motor with an exposed shaft on one end and ventilation slots around its casing. Two threaded mounting studs are visible near the shaft. The internal windings are partially visible through the ventilation openings.

Key Features:

- Thermally protected for enhanced safety.
- UL recognized and CSA certified, ensuring compliance with safety standards.
- Clockwise shaft end rotation.
- Designed for 115 VAC operation.
- Shaft measures 3/8" diameter by 2" length.
- Open ventilation design.
- Sleeve bearing construction.

Package Contents:

- Fasco D310 Motor
- Shade (component of the shaded pole design)

4. SETUP AND INSTALLATION

Proper installation is crucial for the motor's performance and longevity. Refer to the specific equipment manufacturer's instructions for detailed mounting and wiring procedures.

1. **Mounting:** Securely mount the motor using appropriate fasteners. Ensure the motor is stable and free from excessive vibration. The motor length is 2-3/4 inches.
2. **Shaft Alignment:** If connecting to a fan blade or other load, ensure proper alignment with the motor shaft (3/8" diameter by 2" length) to prevent premature bearing wear.

3. **Ventilation:** As an open ventilated motor, ensure adequate airflow around the motor for cooling. Do not obstruct the ventilation openings.
4. **Electrical Connection:**

◦ Verify the power supply is 115V AC, 60Hz.

◦ Connect the motor wiring according to the wiring diagram provided with your specific application or equipment.

◦ Ensure all electrical connections are tight and insulated.

◦ Properly ground the motor to prevent electrical hazards.
5. **Rotation Check:** After initial power-up, briefly check the shaft rotation. The motor is designed for clockwise shaft end rotation.

5. OPERATING INSTRUCTIONS

The Fasco D310 motor is designed for continuous duty within its specified ratings. Once properly installed and wired, operation is straightforward.

- **Power On:** Apply 115V AC power to the motor. The motor should start and reach its operating speed of 1550 RPM.
- **Monitoring:** During initial operation, observe the motor for unusual noises, excessive vibration, or overheating. If any issues are detected, immediately disconnect power and refer to the Troubleshooting section.
- **Thermal Protection:** This motor includes thermal protection. If the motor becomes overloaded or overheats, the thermal protector will temporarily shut off power to prevent damage. Allow the motor to cool down before attempting to restart. Identify and resolve the cause of overheating before resuming operation.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and efficient operation of your Fasco D310 motor.

- **Cleaning:** Periodically clean the exterior of the motor, especially the ventilation openings, to prevent dust and debris buildup. Ensure power is disconnected before cleaning.
- **Inspection:** Regularly inspect the motor for any signs of wear, damage, or loose connections. Check the shaft for any obstructions.
- **Lubrication:** This motor features sleeve bearings. Consult the specific equipment manufacturer's guidelines for lubrication requirements. Many sleeve bearing motors are permanently lubricated and do not require additional oiling.
- **Vibration Check:** Monitor for excessive vibration, which can indicate mounting issues, an unbalanced load, or bearing wear.

7. TROUBLESHOOTING

Before performing any troubleshooting, ensure the power supply to the motor is disconnected.

Problem	Possible Cause	Solution
Motor does not start.	No power supply. Loose wiring connection. Thermal protector tripped. Motor seized.	Check power source and circuit breaker. Inspect and tighten all wiring. Allow motor to cool; check for overload. Inspect shaft for obstructions; replace motor if seized.

Problem	Possible Cause	Solution
Motor overheats and shuts off.	Overload condition. Insufficient ventilation. High ambient temperature. Low voltage.	Reduce load on motor. Clear obstructions from ventilation openings. Ensure motor is in a suitable environment. Verify power supply voltage.
Excessive noise or vibration.	Loose mounting. Unbalanced load (e.g., fan blade). Worn bearings.	Tighten mounting bolts. Inspect and balance the load. Contact a qualified technician for bearing inspection/replacement.

8. SPECIFICATIONS

Attribute	Value
Model Number	D310
Brand	Fasco
Horsepower (HP)	1/12 HP
Voltage	115 Volts AC
Frequency	60 Hz
Amperage	4 Amps
Speed	1550 RPM
Frame Size	4.4" Diameter
Motor Length	2-3/4"
Shaft Dimensions	3/8" diameter x 2" length
Bearing Type	Sleeve Bearing
Ventilation	Open Ventilated, Air-over
Protection	Thermally Protected
Certifications	UL Recognized, CSA Certified
Rotation	Clockwise Shaft End
Material	Copper (windings)
Product Dimensions	8.75 x 3.75 x 3.75 inches (packaging/overall); 4 Pounds

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your specific purchase or contact Fasco customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: Fasco Motors

For further assistance, visit the [Fasco website](#) or contact their authorized service centers.

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