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Fasco D483

Fasco D483 Refrigeration Fan Motor User Manual

Model: D483

1. Introduction

This user manual provides essential information for the safe and efficient installation, operation, and maintenance of the Fasco D483 4.4" Frame Open Ventilation Shaded Pole Refrigeration Fan Motor. This motor is designed for refrigeration applications, featuring a durable sleeve bearing and counterclockwise shaft end rotation. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent damage or injury.

2. Safety Information

WARNING: Electrical Shock Hazard. Disconnect power before servicing.
The Fasco D483 motor is designed with safety features including thermal protection and is UL recognized and CSA certified. However, proper installation and handling are crucial to prevent electrical shock or other hazards. Always adhere to local electrical codes and safety regulations.

- Ensure power is disconnected at the source before attempting any installation, wiring, or maintenance.
- Only qualified personnel should perform electrical connections and repairs.
- Verify the motor's voltage and current ratings match the power supply. This model operates at 115/208-230 VAC.
- Ensure proper grounding of the motor. The motor includes a dedicated ground wire (typically green/yellow).
- Do not operate the motor if it is damaged or if any wires are frayed or exposed.
- Keep hands and tools clear of rotating parts during operation.

3. Product Overview

The Fasco D483 is a robust shaded pole motor specifically engineered for refrigeration fan applications. It features an open ventilation design for efficient cooling and a sleeve bearing for smooth operation. The motor is mechanically reversible, allowing for flexible installation.

- **Thermally Protected:** Built-in protection against overheating.
- **UL Recognized and CSA Certified:** Meets recognized safety standards.
- **Counterclockwise Shaft End Rotation:** Standard rotation direction.
- **115/208-230 VAC Model:** Versatile voltage compatibility.
- **Mechanically Reversible:** Allows for easy change of rotation direction if needed.



Figure 1: Fasco D483 Refrigeration Fan Motor. This image displays the motor with its open ventilation frame, shaft, and multiple colored wires for electrical connection. A label on the motor casing indicates "FASCO", "THERMALLY PROTECTED", and provides a connection diagram for 115V and 230V operation, along with a safety warning.

4. Setup and Installation

Proper installation is critical for the motor's performance and longevity. Ensure the mounting surface is stable and capable of supporting the motor's weight (approximately 5.7 pounds).

4.1 Mounting

The motor is designed for specific mounting configurations typical for refrigeration fan motors. Secure the motor firmly using appropriate fasteners to prevent vibration and misalignment. Ensure adequate clearance for airflow around the open ventilation frame.

4.2 Electrical Connection

Refer to the wiring diagram provided on the motor's label (as seen in Figure 1) for correct electrical connections. The

motor supports 115V and 208-230V operation. Always connect the ground wire (typically green or green/yellow) to a reliable earth ground.

Typical Wiring Diagram (Refer to motor label for exact configuration)

Wire Color	Function (115V)	Function (208-230V)
White (WHT)	Line 1	Line 1
Blue (BLUE)	Line 2	Line 2
Red (RED)	Line 2	Line 2
Purple (PURP)	Not Used	Not Used
Green/Yellow	Ground	Ground

Note: The motor's label provides the most accurate and up-to-date wiring instructions. Always consult the physical motor's label before making any electrical connections.

4.3 Rotation Direction

The motor has a standard Counterclockwise (CCW) shaft end rotation. If a different rotation is required, the motor is mechanically reversible. Consult a qualified technician for instructions on reversing the motor's rotation, as this typically involves internal wiring changes.

5. Operating Instructions

Once properly installed and wired, the Fasco D483 motor is designed for continuous operation within its specified parameters. Ensure the fan blade (not included) is securely attached to the motor shaft and balanced to prevent vibration.

- Verify that the power supply voltage matches the motor's rating (115V or 208-230V).
- Ensure the motor is not obstructed and has adequate ventilation.
- Listen for unusual noises or excessive vibration during initial startup.

6. Maintenance

The Fasco D483 motor is designed for low maintenance. Regular inspection can help ensure long-term reliability.

- **Cleaning:** Periodically clean the motor's exterior to prevent dust and debris buildup, which can impede ventilation. Use a soft, dry cloth or compressed air.
- **Bearings:** The sleeve bearings are typically self-lubricating. Avoid applying external lubricants unless specifically instructed by Fasco.
- **Inspections:** Annually inspect wiring for signs of wear, fraying, or loose connections. Check mounting bolts for tightness.
- **Vibration:** If excessive vibration occurs, check for loose mounting, unbalanced fan blades, or worn bearings.

7. Troubleshooting

This section addresses common issues you might encounter with the Fasco D483 motor.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Motor does not start	No power supply; Incorrect wiring; Thermal overload tripped; Seized bearings.	Check power source and circuit breaker; Verify wiring against diagram; Allow motor to cool and reset; Inspect bearings for free rotation.
Motor runs hot	Insufficient ventilation; Overload; Incorrect voltage; Worn bearings.	Ensure clear airflow; Reduce load if possible; Verify correct voltage supply; Inspect and replace bearings if necessary.
Excessive noise or vibration	Loose mounting; Unbalanced fan blade; Worn bearings.	Tighten mounting bolts; Balance or replace fan blade; Inspect and replace bearings if necessary.

If troubleshooting steps do not resolve the issue, contact a qualified technician or Fasco customer support.

8. Specifications

Attribute	Detail
Brand	Fasco
Model Number	D483
Model Name	D483 17450529
Product Dimensions	9.25 x 3.75 x 3.75 inches
Weight	5.7 Pounds
Horsepower (HP)	1/15 HP
Voltage	115/208-230 VAC
Frequency	60 Hz
Amperage	3.2-1.6 amps
Speed	1550 RPM
Rotation	CCW (Counterclockwise) Shaft End, Mechanically Reversible
Bearing Type	Sleeve Bearing
Frame Type	4.4" Frame, Open Ventilation
Shaft Dimensions	3/8" diameter x 3-1/8" length
Motor Length	4"
Material	Copper (windings)
Certifications	UL Recognized, CSA Certified

9. Warranty and Support

Specific warranty details for the Fasco D483 motor are typically provided at the point of purchase or can be obtained directly from Fasco. Please retain your proof of purchase for warranty claims.
For technical support, service, or parts inquiries, please contact Fasco customer service or an authorized Fasco distributor. Contact information can usually be found on the manufacturer's official website or product packaging.

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