Fasco D919

Fasco D919 Condenser Fan Motor User Manual

Model: D919

Introduction

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco D919 Condenser Fan Motor. Please read these instructions thoroughly before proceeding with installation or use. Retain this manual for future reference.

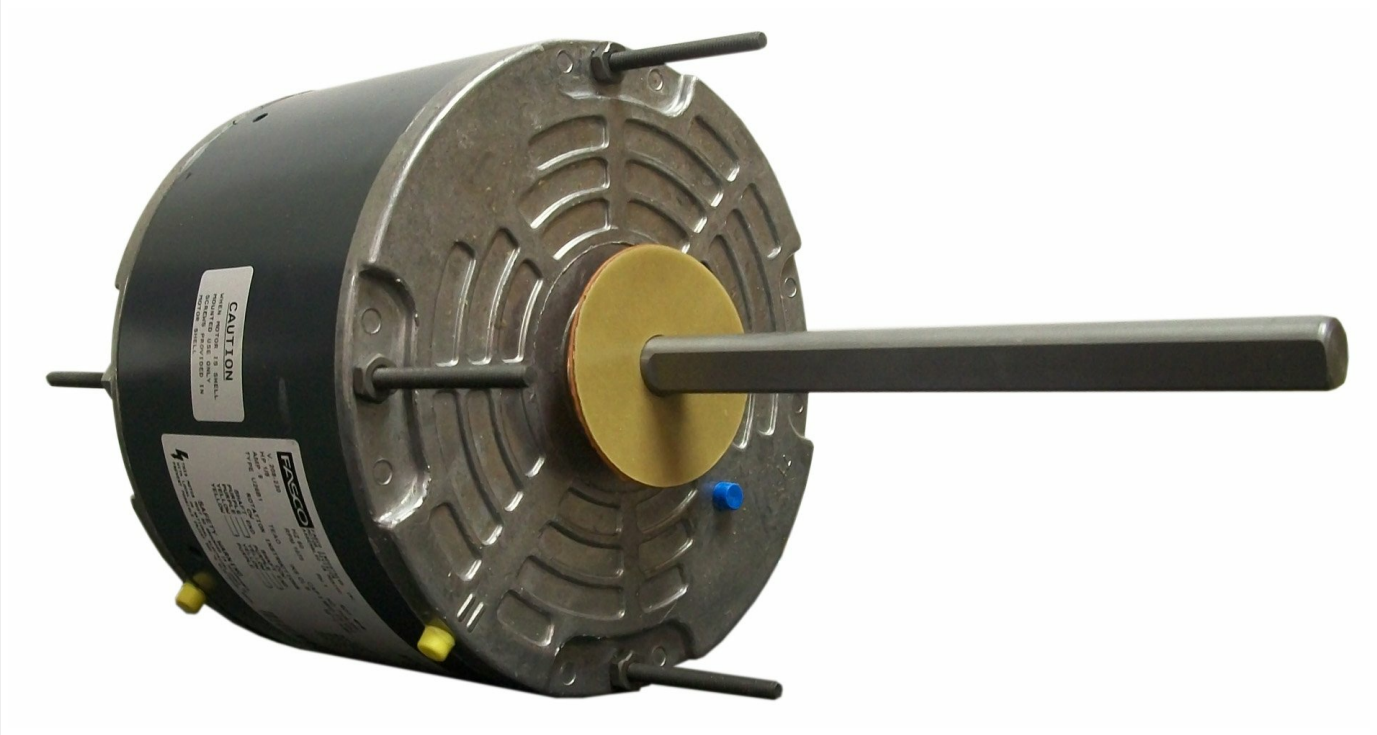


Image: Fasco D919 Condenser Fan Motor. This image displays the motor from a side angle, highlighting its compact design and the shaft extending from one end.

Safety Information

WARNING: Electrical shock hazard. Disconnect power before servicing. Installation and servicing should be performed by qualified personnel only.

- Always ensure the power supply is disconnected before attempting any installation, maintenance, or troubleshooting.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure all wiring connections comply with local and national electrical codes.
- Do not operate the motor if it is damaged or if any components are missing.
- This motor is designed for specific applications. Do not use it for purposes other than its intended use.

Setup and Installation

Proper installation is crucial for the longevity and performance of your Fasco D919 motor.

1. **Mounting:** The motor features 4 drilled and tapped holes in its shell for secure mounting. Ensure the mounting surface is stable and capable of supporting the motor's weight (approximately 10.3 pounds). The motor is designed for all-angle mounting.
2. **Shaft Connection:** The motor is equipped with a 1/2-inch x 6-1/2-inch shaft. Connect the fan blade or other driven component securely to this shaft. Ensure proper alignment to prevent vibration and premature wear.
3. **Capacitor Installation:** This motor requires a 5mfd/370V capacitor for operation (not included). Connect the capacitor according to the wiring diagram provided with your HVAC unit or fan system. Incorrect capacitor sizing or wiring can damage the motor.
4. **Electrical Connection:** Connect the motor to a 208-230 Volt, 60 Hz power supply. Refer to the wiring diagram on the motor label for correct connections. Ensure all connections are tight and insulated.
5. **Rotation:** The motor features reversible rotation. If the desired rotation direction is not achieved upon initial power-up, consult the wiring diagram for instructions on how to reverse the motor's rotation. This typically involves swapping specific wire connections.
6. **Environmental Considerations:** The motor has a 60-degree Celsius ambient temperature rating. Ensure the operating environment does not exceed this temperature to prevent overheating.

Operating Instructions

Once properly installed, the Fasco D919 motor operates automatically as part of your HVAC or fan system.

- **Power On:** Restore power to the system. The motor should start and reach its operating speed of 1075 RPM.
- **Performance:** The motor is a 1/8 HP, single-speed unit, drawing approximately 0.9 Amps under normal load.
- **Monitoring:** During initial operation, observe the motor for any unusual noises, vibrations, or excessive heat. If any anomalies are detected, immediately disconnect power and investigate the cause.
- **Totally Enclosed Design:** The motor's totally enclosed design protects internal components from dust, dirt, and moisture, making it suitable for various outdoor or harsh environments.

Maintenance

Regular maintenance helps ensure the long life and reliable operation of your Fasco D919 motor.

1. **Periodic Inspection:** Annually inspect the motor for signs of wear, damage, or corrosion. Check mounting bolts for tightness.
2. **Cleaning:** Keep the exterior of the motor clean and free of debris. While the motor is totally enclosed, excessive buildup of dirt can impede heat dissipation. Use a soft brush or compressed air to remove dust.

3. **Bearing Check:** The motor uses sleeve bearings. These are typically maintenance-free. However, listen for any unusual noises that might indicate bearing wear.
4. **Wiring Inspection:** Periodically check all electrical connections for tightness and signs of insulation degradation.

Troubleshooting

Before performing any troubleshooting, ensure power is disconnected.

Problem	Possible Cause	Solution
Motor does not start	No power supply Incorrect wiring Faulty capacitor Motor overload	Check circuit breaker/fuse Verify wiring against diagram Test/replace capacitor Check for obstructions or excessive load
Motor runs hot	Insufficient airflow Motor overload High ambient temperature	Ensure proper ventilation Reduce load if possible Verify operating environment is within 60°C limit
Excessive noise or vibration	Loose mounting Unbalanced fan blade Worn bearings	Tighten mounting bolts Inspect and balance fan blade Consult qualified technician for bearing inspection
Incorrect rotation direction	Incorrect wiring for desired rotation	Refer to wiring diagram to reverse rotation connections

Specifications

Feature	Detail
Brand	Fasco
Model	D919
Horsepower (HP)	1/8 HP (0.13 HP)
Voltage	208-230 Volts
RPM (Revolutions Per Minute)	1075 RPM
Speed	1 Speed
Amperage	0.9 Amps
Shaft Size	1/2-Inch x 6-1/2-Inch
Bearing Type	Sleeve Bearing, All Angle Mount
Enclosure Type	Totally Enclosed
Rotation	Reversible
Ambient Temperature Rating	60°C (140°F)
Capacitor Requirement	5mfd/370V (Not Included)

Feature	Detail
Material	Copper
Item Weight	10.3 Pounds

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

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