

Fasco D229

Fasco D229 Fan and Blower Motor User Manual

Model: D229

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco D229 Fan and Blower Motor. Please read this manual thoroughly before attempting to install or operate the motor. Retain this manual for future reference.

The Fasco D229 is a single-phase, shaded pole motor designed for fan and blower applications. It features a 1/100 horsepower rating, operates at 115V AC, and achieves a nameplate speed of 3000 RPM with a counter-clockwise shaft end rotation.

2. SAFETY INFORMATION

WARNING: Risk of electric shock, fire, or injury. Always disconnect power before servicing or installing the motor.

- Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Ensure the power supply voltage matches the motor's rated voltage (115V AC).
- Do not operate the motor in environments exceeding its maximum ambient temperature of 40 degrees C.
- Ensure proper ventilation for the motor, as it features an Open Air Over enclosure design.
- Never bypass or disable the motor's automatic thermal protection.
- Keep hands, tools, and clothing away from moving parts during operation.
- Ground the motor properly to prevent electrical shock.

3. PRODUCT OVERVIEW

The Fasco D229 motor is constructed with a steel frame and copper windings, designed for durability and performance in appropriate applications. Its compact design and stud mounting type make it suitable for various fan and blower units.



Figure 1: Fasco D229 Fan and Blower Motor. This image shows the compact design of the motor, highlighting its shaft and mounting studs.

4. SETUP AND INSTALLATION

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

4.1 Pre-Installation Checks

- Verify that the motor's specifications (voltage, RPM, horsepower) match the requirements of your application.
- Inspect the motor for any visible damage that may have occurred during shipping.
- Ensure the mounting surface is stable and capable of supporting the motor's weight (approximately 2

pounds).

4.2 Mounting the Motor

1. Position the motor in the desired location, aligning its stud mounts with the mounting holes of the fan or blower housing.
2. Secure the motor using appropriate fasteners (not included) to ensure a firm and vibration-free installation.
3. Ensure the motor shaft is properly aligned with the fan or blower impeller to prevent undue stress on the motor bearings.

4.3 Electrical Connection

1. Ensure the main power supply is disconnected at the circuit breaker before making any electrical connections.
2. Connect the motor's electrical leads to a 115V AC, 60Hz power source. Refer to the wiring diagram provided with your specific application or consult a qualified electrician.
3. Properly ground the motor according to local electrical codes.
4. Confirm all connections are secure and insulated to prevent short circuits.

5. OPERATING INSTRUCTIONS

The Fasco D229 motor is designed for continuous operation within its specified parameters.

1. After installation, ensure all safety covers are in place and there are no obstructions around the motor or fan/blower assembly.
2. Restore power to the circuit.
3. Activate the fan or blower unit. The motor should start smoothly and reach its operating speed of 3000 RPM.
4. Observe the motor during its initial operation for any unusual noises, vibrations, or signs of overheating. If any issues are detected, immediately shut off power and refer to the troubleshooting section.
5. The motor's shaft rotation is Counter-Clockwise Shaft End (CCWSE). Ensure this matches the requirements of your fan or blower.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Fasco D229 motor.

- **Cleaning:** Periodically clean the exterior of the motor to prevent dust and debris buildup, which can impede cooling. Ensure power is disconnected before cleaning.
- **Ventilation:** Verify that the motor's ventilation openings are clear and unobstructed to allow for proper airflow and cooling.
- **Connections:** Annually inspect all electrical connections for tightness and signs of corrosion. Loose connections can lead to overheating or intermittent operation.
- **Bearings:** The motor is typically designed with permanently lubricated bearings, requiring no additional lubrication. If unusual bearing noise is detected, the motor may require professional service or replacement.

7. TROUBLESHOOTING

Before performing any troubleshooting, always disconnect power to the motor.

Problem	Possible Cause	Solution
Motor does not start	No power supply Loose wiring connections Thermal overload tripped Motor seized	Check circuit breaker/fuse Inspect and tighten all electrical connections Allow motor to cool; check for obstructions Inspect for obstructions; replace motor if seized
Motor overheats	Insufficient ventilation Overload condition Incorrect voltage Bearing failure	Clear obstructions from motor vents Reduce load on motor; ensure fan/blower operates freely Verify power supply is 115V AC Consult professional service
Excessive noise or vibration	Loose mounting Unbalanced fan/blower impeller Worn bearings	Tighten mounting fasteners Inspect and balance impeller; clean blades Consult professional service

8. SPECIFICATIONS

Key technical specifications for the Fasco D229 motor:

Specification	Value
Model Number	D229
Brand	Fasco
Motor Design	Shaded Pole
Horsepower (HP)	1/100 hp (0.01 HP)
Voltage	115V AC
Frequency	60 Hz
Nameplate RPM	3000 RPM
Number of Speeds	1
Full Load Amps	0.60 A
Output Watts	10 W
Frame Size	3.3 Frame
Motor Service Factor	1

Specification	Value
Thermal Protection	Auto
Insulation Class	B
Max. Ambient Temperature	40 Degrees C
Motor Shaft Rotation	CCWSE (Counter-Clockwise Shaft End)
Motor Enclosure Design	Open Air Over
Motor Mounting Type	Stud
Motor Frame Material	Steel
Material (Windings)	Copper
Item Weight	2 Pounds
UPC	663001025313

9. WARRANTY INFORMATION

For detailed warranty information regarding your Fasco D229 motor, please refer to the official Fasco website or contact Fasco customer support directly. Warranty terms and conditions may vary based on region and purchase date.

10. SUPPORT AND CONTACT

If you require further assistance, technical support, or have questions not covered in this manual, please contact Fasco customer service or visit their official website:

- **Fasco Official Website:** www.regalrexnord.com/brands/fasco (Note: Fasco is a brand of Regal Rexnord)
- Refer to the website for contact numbers and support resources specific to your region.