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› Fasco D206 General Purpose Motor Instruction Manual

Fasco D206

Fasco D206 General Purpose Motor Instruction Manual

Model: D206

1. PRODUCT OVERVIEW

The Fasco D206 is a 3.3-inch general purpose shaded pole motor designed for various applications requiring reliable rotational power. This motor features a 1/30 horsepower (HP) output, operates on 115 Volts, and achieves a speed of 3000 Revolutions Per Minute (RPM). It is equipped with a sleeve bearing and an Open Air Over (OAO) enclosure, indicating it relies on the fan or driven equipment for cooling. The shaft dimensions are 1/4-inch diameter by 2-1/4-inch length, with a Clockwise Shaft End (CWSE) rotation.



Figure 1: Fasco D206 general purpose motor. This image displays the compact design of the motor with its shaft extending, ready for installation.

2. SAFETY INFORMATION

Read and understand all instructions before installing, operating, or performing maintenance on this motor. Failure to follow these instructions may result in electric shock, fire, serious injury, or death.

- **Electrical Hazard:** Ensure power is disconnected at the source before any installation or service. Only qualified personnel should perform electrical wiring.
- **Moving Parts:** Keep hands, hair, clothing, and tools clear of moving parts during operation.
- **Overheating:** Do not block ventilation openings. Ensure adequate airflow for cooling, especially for OAO (Open Air Over) enclosed motors which rely on external airflow.
- **Proper Grounding:** Always ground the motor according to local and national electrical codes.
- **Environmental Conditions:** Do not operate the motor in environments exceeding its specified temperature or

humidity ratings.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The standard package for the Fasco D206 motor typically includes:

- Fasco D206 General Purpose Motor (1 unit)
- Instruction Manual (this document)

Note: Additional mounting hardware or accessories may be required for specific applications and are typically sold separately.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of the Fasco D206 motor. Consult a qualified electrician or technician if you are unsure about any steps.

1. **Power Disconnection:** Before beginning any installation, ensure that the main power supply to the installation area is completely disconnected and locked out.
2. **Mounting:** Securely mount the motor using appropriate fasteners and mounting brackets suitable for the motor's weight and application. Ensure the mounting surface is stable and free from vibration. The motor's package dimensions are approximately 8.4 x 3.9 x 3.7 inches, and it weighs 2.7 pounds.
3. **Shaft Connection:** Connect the motor shaft (1/4-inch x 2-1/4-inch) to the driven equipment. Ensure proper alignment to prevent excessive wear on bearings and couplings.
4. **Electrical Wiring:**
 - Connect the motor to a 115 Volt, 60 Hz power supply.
 - Ensure all wiring conforms to local and national electrical codes.
 - Properly ground the motor frame.
 - Verify that the circuit breaker or fuse rating is appropriate for the motor's 1.2 Amps current draw.
5. **Ventilation:** As an OAO (Open Air Over) motor, it relies on the airflow from the driven equipment (e.g., a fan) for cooling. Ensure that the motor is installed in a location with sufficient airflow to prevent overheating.
6. **Rotation Check:** The motor has a Clockwise Shaft End (CWSE) rotation. Verify that this rotation direction is compatible with your application.

5. OPERATING INSTRUCTIONS

Once the Fasco D206 motor is correctly installed and all safety checks are complete, it is ready for operation.

1. **Initial Start-up:** Restore power to the circuit. Activate the motor's power switch. Observe the motor for any unusual noises, vibrations, or smells during the first few minutes of operation.
2. **Normal Operation:** The motor is designed for continuous duty within its specified ratings (1/30 HP, 115V, 3000 RPM, 1.2 Amps).
3. **Monitoring:** Periodically check the motor's temperature. While some warmth is normal, excessive heat indicates a potential issue.
4. **Shutdown:** To turn off the motor, deactivate its power switch. For extended periods of non-use or maintenance, disconnect the main power supply.

6. MAINTENANCE

The Fasco D206 motor is designed for minimal maintenance. However, regular inspection can extend its lifespan and ensure reliable performance.

- **Cleaning:** Keep the motor exterior clean and free from dust, dirt, and debris. Ensure that any ventilation openings are not obstructed.
- **Bearing Maintenance:** This motor uses sleeve bearings, which are typically self-lubricating and require no additional lubrication under normal operating conditions. Avoid introducing foreign lubricants unless specifically instructed by Fasco.
- **Inspection:** Periodically inspect the motor for signs of wear, damage, or loose connections. Check for unusual noises or vibrations during operation.
- **Shaft and Coupling:** Ensure the shaft and any connected couplings remain free of corrosion and are securely fastened.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your Fasco D206 motor. Always disconnect power before attempting any troubleshooting or repairs.

Problem	Possible Cause	Solution
Motor does not start.	No power supply; faulty wiring; motor overload; seized bearing.	Check power connection and circuit breaker. Verify wiring. Reduce load if applicable. Inspect bearings for free rotation.
Motor overheats.	Insufficient ventilation; excessive load; high ambient temperature; bearing issues.	Ensure clear airflow around motor. Reduce load. Operate within specified temperature limits. Inspect bearings.
Excessive noise or vibration.	Loose mounting; misaligned shaft; worn bearings; foreign object.	Tighten mounting bolts. Check shaft alignment. Inspect and replace worn bearings if necessary. Remove any obstructions.
Motor runs slowly or with reduced power.	Low voltage; excessive load; partial winding failure.	Verify input voltage. Reduce mechanical load. Consult a qualified technician for internal motor issues.

8. SPECIFICATIONS

Detailed technical specifications for the Fasco D206 General Purpose Motor:

Brand:	Fasco
Model Name:	D206
Part Number:	D206
Horsepower (HP):	1/30 HP
Voltage:	115 Volts
Speed:	3000 RPM (1 Speed)
Amperage:	1.2 Amps

Enclosure Type: OAO (Open Air Over)
Rotation: CWSE (Clockwise Shaft End)
Bearing Type: Sleeve Bearing
Shaft Dimensions: 1/4-Inch x 2-1/4-Inch
Material: Copper
Item Weight: 2.7 pounds
Package Dimensions: 8.4 x 3.9 x 3.7 inches

9. WARRANTY AND SUPPORT

Warranty: According to product information, the Fasco D206 motor is sold with "No Warranty". Please refer to your point of purchase for their specific return or exchange policies.

Customer Support: For technical assistance, installation questions, or further information regarding the Fasco D206 motor, please contact Fasco customer service or the authorized distributor from whom the product was purchased. Always provide the model number (D206) when seeking support. You can often find contact information on the manufacturer's official website or through your product supplier.

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