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› Fasco D1138 Shaded Pole Motor Instruction Manual

Fasco D1138

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Model: D1138

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Fasco D1138 Shaded Pole Motor. Please read these instructions thoroughly before proceeding with any installation or operation.

The Fasco D1138 is a 3.3-inch diameter shaded pole motor designed for various applications requiring reliable, multi-speed operation. Key features include:

- **Horsepower:** 1/50 - 1/80 - 1/140 HP
- **Voltage:** 115 Volts
- **RPM:** 1500 RPM
- **Speeds:** 3-Speed operation
- **Amperage:** 0.9 - 0.6 - 0.5 Amps
- **Rotation:** Clockwise (CW)
- **Bearing Type:** Sleeve Bearing

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power before installing, servicing, or cleaning this motor. Failure to do so can result in serious injury or death.

SAFETY WARNING: This motor must be grounded in accordance with local or national electrical codes to prevent possible injury due to electrical shock.

- Ensure all wiring is performed by a qualified electrician and complies with all applicable electrical codes.
- Do not operate the motor if it is damaged or if any electrical connections are loose.
- Keep hands and clothing clear of moving parts during operation.
- Ensure proper ventilation around the motor to prevent overheating.

3. SPECIFICATIONS

Specification	Value
Brand	Fasco
Model Name	D1138
Horsepower (HP)	1/50 - 1/80 - 1/140 HP
Voltage	115 Volts
Speed	1500 RPM (3 Speed)
Amperage	0.9 - 0.6 - 0.5 Amps
Rotation	CW (Clockwise)
Bearing Type	Sleeve Bearing
Shaft Dimension	5/16-Inch x 2-1/2-Inch
Diameter	3.3-Inch
Material	Copper
Item Weight	0.32 ounces (approx. 9.07 g)
Package Dimensions	8.9 x 5.1 x 4.7 inches
Part Number	D1138
UPC	782247396763, 663001023388

4. INSTALLATION AND SETUP

Proper installation is crucial for the motor's performance and longevity. Follow these general guidelines:

- Mounting:** Securely mount the motor using appropriate hardware. Ensure the mounting surface is stable and can support the motor's weight and operational forces. The motor features mounting studs for installation.
- Shaft Alignment:** Ensure the motor shaft (5/16-inch x 2-1/2-inch) is correctly aligned with the driven component to prevent undue stress on the motor bearings.
- Electrical Connection:** Refer to the connection diagram located on the motor label for correct wiring. This motor requires a 115 Volt power supply.



Image 1: Fasco D1138 Shaded Pole Motor. The image displays the rear view of the black motor, showing the shaft extending from the center, mounting studs, and the internal copper windings visible through the ventilation slots. A white label with a safety warning and a connection diagram (Common, High, Med, Low with corresponding wire colors Wht, Blk, Blu, Red) is visible on the side of the motor casing.

Connection Diagram Details (from motor label):

- **Common:** White (Wht) wire
- **High Speed:** Black (Blk) wire
- **Medium Speed:** Blue (Blu) wire
- **Low Speed:** Red (Red) wire

Always ensure the motor is properly grounded as indicated by the safety warning on the motor label and in section 2 of this manual.

5. OPERATION

The Fasco D1138 motor is designed for continuous operation within its specified parameters. It features three distinct speeds:

- The motor's three speeds will initially appear similar until a load is applied.
- Under load, the motor will operate at its rated speeds (1500 RPM) with varying horsepower (1/50, 1/80, 1/140 HP) depending on the selected speed setting.
- The motor rotates in a Clockwise (CW) direction.

Avoid operating the motor beyond its rated voltage, amperage, or temperature limits to prevent damage.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of your motor.

- **Cleaning:** Keep the motor clean and free from dust, dirt, and debris. Accumulated foreign material can impede cooling and lead to overheating.
- **Inspection:** Periodically inspect the motor for any signs of wear, damage, or loose connections. Check the shaft for any obstructions.
- **Lubrication:** This motor features sleeve bearings. While many modern sleeve bearings are self-lubricating, consult the manufacturer's guidelines or a qualified technician if lubrication is deemed necessary for your specific application.
- **Ventilation:** Ensure that the motor's ventilation openings are clear and unobstructed to allow for proper airflow and cooling.

WARNING: Always disconnect power before performing any maintenance or cleaning.

7. TROUBLESHOOTING

If you encounter issues with your Fasco D1138 motor, consider the following common troubleshooting steps:

- **Motor Does Not Start:**
 - Check power supply to ensure it is connected and active.
 - Verify all electrical connections are secure and correctly wired according to the diagram.
 - Ensure there are no obstructions preventing the shaft from rotating freely.
- **Motor Overheats:**
 - Check for proper ventilation; clear any obstructions from cooling vents.
 - Ensure the motor is not operating under excessive load.
 - Verify the ambient temperature is within the motor's operating limits.
- **Unusual Noise or Vibration:**
 - Inspect for loose mounting hardware.
 - Check for foreign objects in or around the motor.
 - Ensure the driven component is balanced and properly aligned with the motor shaft.

If problems persist after performing these checks, it is recommended to consult a qualified technician.

8. WARRANTY AND SUPPORT

According to product information, this Fasco D1138 motor is sold with **No Warranty**.

For technical assistance or further inquiries regarding the Fasco D1138 motor, please contact Fasco customer support or your authorized dealer.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

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

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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