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› Fasco D1123 PSC Motor Instruction Manual

Fasco D1123

Fasco D1123 PSC Motor Instruction Manual

Model: D1123

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco D1123 Permanent Split Capacitor (PSC) Motor. Please read this manual thoroughly before attempting to install or operate the motor. Retain this manual for future reference.

The Fasco D1123 is a 3.3-inch diameter PSC motor, designed for various applications requiring a 1/15 HP motor operating at 208-230 Volts with 1550 RPM. It features a Counter-Clockwise (CCW) rotation and sleeve bearings.

2. SAFETY INSTRUCTIONS

WARNING: Risk of electric shock. Disconnect power before servicing.

- Always disconnect power to the motor and associated equipment before installation, maintenance, or troubleshooting.
- Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes.
- Ensure the motor is properly grounded to prevent electrical shock.
- Do not operate the motor in wet or damp conditions unless it is specifically rated for such environments.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, during installation and maintenance.
- Verify that the supply voltage matches the motor's voltage rating (208-230 Volts).
- Do not block motor ventilation openings. Adequate airflow is crucial for cooling.

3. PACKAGE CONTENTS

Upon unpacking, ensure all items are present and undamaged. If any components are missing or damaged, contact your supplier immediately.

- Fasco D1123 PSC Motor (1 unit)
- This Instruction Manual (1 copy)



Image 1: Fasco D1123 PSC Motor. This image shows the Fasco D1123 motor, highlighting its compact design and shaft. The motor casing is typically black or dark gray, with a label indicating specifications. The shaft extends from one end, ready for connection to a fan blade or other driven component.

4. SPECIFICATIONS

Refer to the following table for detailed technical specifications of the Fasco D1123 motor:

Feature	Specification
Model Number	D1123
Motor Type	Permanent Split Capacitor (PSC)
Horsepower (HP)	1/15 HP
Voltage	208-230 Volts
Amperage	0.5 Amps
RPM	1550 RPM
Speed	1 Speed
Rotation	Counter-Clockwise (CCW)
Bearing Type	Sleeve Bearing
Shaft Dimension	5/16-Inch x 2-5/8-Inch
Diameter	3.3-Inch
Capacitor Requirement	4M 370V (Not Included)
Frequency	50/60Hz
Material	Alloy Steel

Feature	Specification
Item Weight	16 ounces

5. SETUP AND INSTALLATION

5.1 Pre-Installation Checks

- Ensure the mounting location is clean, dry, and provides adequate ventilation.
- Confirm that the power supply matches the motor's voltage and frequency requirements.
- Gather necessary tools: screwdrivers, wrenches, wire strippers, multimeter, and appropriate mounting hardware.
- Obtain a compatible 4M 370V capacitor, as it is not included with the motor.

5.2 Mounting the Motor

Mount the motor securely using appropriate bolts and brackets. Ensure the motor is firmly attached to prevent vibration and misalignment during operation. The mounting orientation should allow for proper airflow around the motor for cooling.

5.3 Wiring Instructions

CAUTION: All wiring must comply with local and national electrical codes. If you are not a qualified electrician, seek professional assistance.

1. **Disconnect Power:** Ensure the main power supply is OFF at the circuit breaker before beginning any wiring.
2. **Identify Wires:** Refer to the wiring diagram typically found on the motor's label or within its packaging. Standard PSC motors usually have leads for line voltage, neutral, and capacitor connections.
3. **Connect Capacitor:** Connect the external 4M 370V capacitor according to the motor's wiring diagram. The capacitor is crucial for the motor's operation.
4. **Connect Power:** Connect the motor's power leads to the 208-230V AC supply. Ensure proper polarity and secure all connections with wire nuts or terminal blocks.
5. **Grounding:** Connect the motor's ground wire to a reliable earth ground.
6. **Verify Connections:** Double-check all wiring connections for tightness and correctness before restoring power.

5.4 Rotation Check

The Fasco D1123 motor is designed for Counter-Clockwise (CCW) rotation when viewed from the shaft end. After initial wiring and before full operation, briefly apply power to confirm the correct rotation direction. If the rotation is incorrect, consult the wiring diagram for potential lead reversal options or contact technical support.

6. OPERATING INSTRUCTIONS

6.1 Initial Startup

1. After completing installation and wiring, ensure all safety covers are in place and no loose objects are near the motor or its driven component.
2. Restore power to the circuit.
3. Activate the motor. Observe for any unusual noises, vibrations, or overheating.
4. If any abnormalities are detected, immediately shut off power and refer to the Troubleshooting section.

6.2 Normal Operation

During normal operation, the motor should run smoothly with minimal noise and vibration. Periodically check the motor's temperature; it should be warm to the touch but not excessively hot. Ensure that the motor's ventilation is not obstructed.

7. MAINTENANCE

WARNING: Disconnect power before performing any maintenance.

7.1 Cleaning

- Regularly clean the exterior of the motor to prevent dust and debris buildup, which can impede cooling.
- Use a soft brush or compressed air to remove dirt from ventilation openings. Do not use water or solvents directly on the motor.

7.2 Inspection

- Periodically inspect the motor for signs of wear, damage, or loose connections.
- Check mounting bolts for tightness.
- Inspect wiring for fraying, cracks, or discoloration.

7.3 Lubrication (Sleeve Bearings)

The Fasco D1123 motor utilizes sleeve bearings. These bearings are typically pre-lubricated and sealed for life in many applications. However, depending on the specific motor design and operating conditions, some sleeve bearings may require periodic lubrication. Consult the motor's label or Fasco's official documentation for specific lubrication recommendations. If lubrication is required, use only the type and amount of lubricant specified by the manufacturer.

8. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, contact Fasco technical support.

Problem	Possible Cause	Solution
Motor does not start	No power; Incorrect wiring; Faulty capacitor; Overload protection tripped.	Check power supply and circuit breaker; Verify wiring against diagram; Test/replace capacitor; Reset overload.
Motor hums but does not turn	Faulty capacitor; Obstruction in driven equipment; Seized bearings.	Test/replace capacitor; Remove obstruction; Inspect bearings for damage.
Motor runs hot	Insufficient ventilation; Overload; Incorrect voltage; Worn bearings.	Clear obstructions; Reduce load; Verify voltage; Inspect/replace bearings.
Excessive noise or vibration	Loose mounting; Misalignment; Worn bearings; Damaged fan/impeller.	Tighten mounting bolts; Check alignment; Inspect/replace bearings; Inspect driven component.
Incorrect rotation	Incorrect wiring for desired rotation.	Refer to wiring diagram for reversing instructions (if applicable) or contact support.

9. WARRANTY AND SUPPORT

Fasco products are manufactured to high-quality standards. For information regarding the warranty period and terms applicable to your D1123 motor, please refer to the warranty documentation provided with your purchase or visit the

official Fasco website. Keep your proof of purchase for warranty claims.

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Fasco customer support through their official website or the contact information provided with your product documentation.

Fasco Official Website: www.regalrexnord.com/brands/fasco

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