

Fasco D1140

Fasco D1140 PSC Motor Instruction Manual

Model: D1140

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Fasco D1140 PSC Motor. Please read these instructions thoroughly before use and retain this manual for future reference.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the motor.

- Ensure power is disconnected before installation or maintenance.
- Installation should be performed by a qualified electrician.
- Verify voltage and current ratings match your power supply.
- Do not operate the motor in wet or explosive environments.
- Wear appropriate personal protective equipment (PPE) during installation and operation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Fasco D1140 PSC Motor (1 unit)
- Instruction Manual (this document)
- *Note: A 7.5M 370V Capacitor is required but not included.*

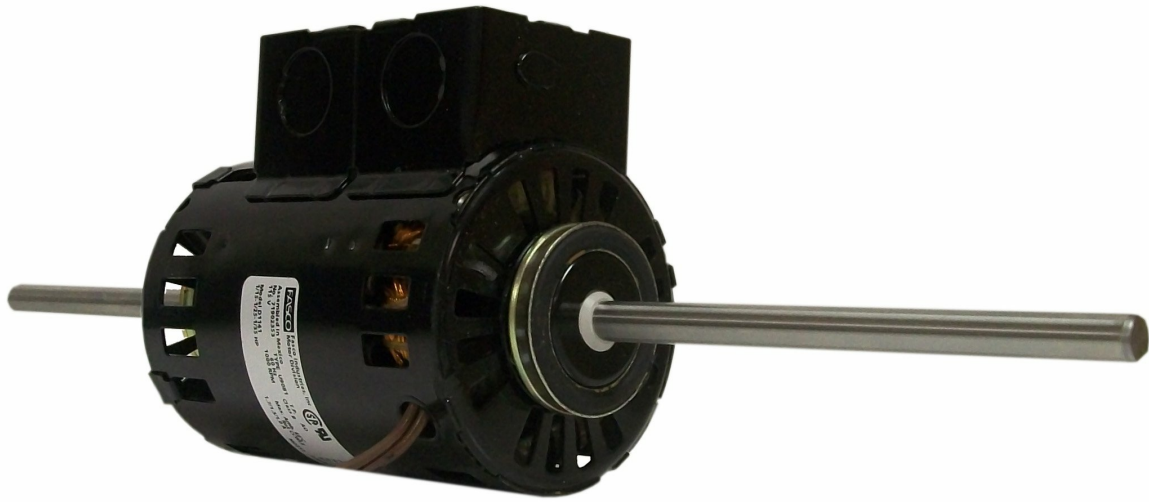


Figure 1: Fasco D1140 PSC Motor. This image displays the motor unit, which is a 3.3-inch diameter Permanent Split Capacitor (PSC) motor.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the Fasco D1140 motor.

1. **Mounting:** Securely mount the motor in its intended application. Ensure adequate ventilation around the motor.
2. **Capacitor Installation:** Connect a 7.5M 370V capacitor (not included) according to the wiring diagram provided with your specific application.
3. **Electrical Connections:**
 - Ensure the power supply is 115 Volts.
 - Connect the motor wiring to the power supply, observing correct polarity and grounding. Refer to the wiring diagram for your specific application.
 - The motor supports 3 speeds with current ratings of 2.2, 2, and 1.7 Amps. Connect the appropriate speed wire as required.
4. **Shaft Connection:** Connect the fan or other driven component to the 5-5/8-Inch x 3/8-Inch x 5-5/8-Inch shaft. Ensure the connection is secure and balanced.
5. **Final Check:** Before applying power, double-check all connections for security and correctness.

5. OPERATING INSTRUCTIONS

The Fasco D1140 motor is designed for continuous operation within its specified parameters.

- **Power On:** Once installation is complete and verified, apply power to the motor.
- **Speed Selection:** If your application allows for speed selection, choose the desired speed setting. The motor operates at 1500 RPM.
- **Direction of Rotation:** The motor features DS (Double Shaft) rotation. Verify that the driven component rotates in the correct direction for your application.
- **Monitoring:** During initial operation, monitor the motor for unusual noises, vibrations, or excessive heat. Disconnect power immediately if any anomalies are detected.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Fasco D1140 motor.

- **Cleaning:** Periodically clean the exterior of the motor to prevent dust and debris buildup, which can impede cooling. Ensure power is off before cleaning.
- **Bearings:** This motor uses sleeve bearings. These are typically self-lubricating and require no additional lubrication under normal operating conditions.
- **Inspections:** Annually inspect wiring for signs of wear or damage. Check mounting bolts for tightness.
- **Capacitor Check:** If the motor experiences starting issues, inspect the capacitor for signs of failure (e.g., bulging, leaks) and test its capacitance. Replace if necessary.

7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Motor does not start	No power; faulty capacitor; wiring error; seized bearings	Check power supply; test/replace capacitor; verify wiring; inspect bearings
Motor runs hot	Overload; insufficient ventilation; faulty bearings	Reduce load; ensure proper airflow; inspect/replace bearings
Excessive noise or vibration	Loose mounting; unbalanced load; worn bearings	Tighten mounting; balance load; inspect/replace bearings

If the issue persists after attempting these solutions, contact qualified service personnel.

8. SPECIFICATIONS

Key technical specifications for the Fasco D1140 PSC Motor:

- **Model:** D1140
- **Type:** PSC Motor
- **Diameter:** 3.3-Inch
- **Horsepower (HP):** 1/10 - 1/12 - 1/15 HP
- **Voltage:** 115 Volts
- **RPM:** 1500 RPM
- **Speeds:** 3 Speed
- **Amperage:** 2.2 - 2 - 1.7 Amps
- **Rotation:** DS (Double Shaft)
- **Bearings:** Sleeve Bearing
- **Shaft Dimension:** 5-5/8-Inch x 3/8-Inch x 5-5/8-Inch
- **Material:** Copper
- **Item Weight:** 6.3 Pounds
- **Capacitor Requirement:** 7.5M 370V (Not Included)

9. WARRANTY INFORMATION

According to product information, this Fasco D1140 motor is sold with **No Warranty**. Please refer to your point of purchase for any specific return or exchange policies.

10. CUSTOMER SUPPORT

For technical assistance or inquiries regarding the Fasco D1140 motor, please contact your authorized Fasco dealer or the retailer from whom the product was purchased. Provide your model number (D1140) and any relevant purchase details when seeking support.