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Fasco D2840

Fasco D2840 PSC Motor Instruction Manual

Model: D2840

Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Fasco D2840 PSC Motor. Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.



Image: Fasco D2840 PSC Motor. This image displays the Fasco D2840 motor, a cylindrical unit with a prominent shaft extending from one end. The motor casing is grey, and the shaft is dark metallic. Visible features include mounting holes on the faceplate and a label on the side of the motor body.

Safety Information

WARNING: Risk of electric shock. Installation and servicing should only be performed by qualified personnel. Disconnect power before servicing.

- Always ensure the power supply is disconnected and locked out before installing, servicing, or performing any maintenance on the motor.
- Verify that the motor's voltage, amperage, and RPM ratings match the application requirements.
- Ensure proper grounding of the motor to prevent electrical hazards.
- Protect wiring from sharp edges, hot surfaces, and moving parts.
- Do not operate the motor if it is damaged or if any components are missing.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

Product Features

- **Type:** PSC Motor (Permanent Split Capacitor)
- **Horsepower:** 1/5 HP (0.2 hp)
- **Voltage:** 208-230 Volts
- **RPM:** 1075 RPM (1 Speed)
- **Amperage:** 1.3 Amps
- **Rotation:** CW (Clockwise)
- **Bearing Type:** Sleeve Bearing
- **Shaft Dimension:** 1/2-Inch x 4-1/8-Inch
- **Diameter:** 5.6-Inch
- **Mounting:** Has 4 drilled and tapped holes in shell
- **Material:** Copper windings

Setup and Installation

1. **Preparation:**
    - Ensure the power supply is disconnected at the circuit breaker or fuse box.
    - Gather all necessary tools and safety equipment.
    - Inspect the motor for any shipping damage.
2. **Mounting:**
    - Mount the motor securely using the four drilled and tapped holes on the shell. Ensure the mounting surface is stable and capable of supporting the motor's weight and operational forces.
    - Verify proper alignment of the motor shaft with the driven component (e.g., fan blade).
3. **Wiring:**
    - Refer to the wiring diagram provided with your specific application or on the motor's label.
    - Connect the motor to a 208-230 Volt AC power supply.
    - Ensure all electrical connections are tight and insulated.
    - Properly ground the motor according to local electrical codes.
    - Connect the appropriate run capacitor as specified for PSC motors.
4. **Final Check:**

- Double-check all connections and mounting points.
- Ensure no obstructions are near the motor or its shaft.
- Confirm the motor shaft rotates freely by hand before applying power.

It is highly recommended that installation be performed by a certified electrician or HVAC technician.

Operating Instructions

1. **Initial Start-up:**
   - After ensuring all installation steps are complete and safe, restore power to the motor.
   - Observe the motor during its first few minutes of operation for any unusual noises, vibrations, or signs of overheating.
2. **Normal Operation:**
   - The Fasco D2840 motor is designed for continuous operation within its specified ratings.
   - Ensure adequate ventilation around the motor to prevent overheating.
   - Avoid operating the motor outside its rated voltage and current limits.

Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your Fasco D2840 motor. Always disconnect power before performing any maintenance.

- **Cleaning:**
  - Periodically clean the exterior of the motor to remove dust, dirt, and debris that can impede cooling.
  - Ensure ventilation openings are clear.
- **Bearings:**
  - The D2840 motor uses sleeve bearings, which are typically self-lubricating. However, listen for any unusual noises that might indicate bearing wear.
  - Do not attempt to lubricate sealed bearings unless specifically instructed by the manufacturer.
- **Connections:**
  - Periodically check electrical connections for tightness and signs of corrosion.
- **Vibration:**
  - Monitor for excessive vibration, which can indicate misalignment, worn bearings, or an unbalanced load.

Troubleshooting

Before troubleshooting, always disconnect power to the motor.

Problem	Possible Cause	Solution
Motor does not start	No power supply Incorrect wiring Faulty capacitor Seized bearings	Check power source and circuit breaker Verify wiring against diagram Test/replace capacitor Inspect/replace motor

Problem	Possible Cause	Solution
Motor overheats	Insufficient ventilation Overload Low voltage Worn bearings	Clear obstructions, ensure airflow Reduce load or use higher HP motor Check power supply voltage Inspect/replace motor
Excessive noise or vibration	Loose mounting Worn bearings Unbalanced load (e.g., fan blade) Shaft misalignment	Tighten mounting bolts Inspect/replace motor Balance or replace load Realign motor and load
Motor runs slowly	Low voltage Overload Faulty capacitor	Check power supply voltage Reduce load Test/replace capacitor

Specifications

Brand	Fasco
Model Number	D2840
Horsepower	1/5 HP (0.2 hp)
Voltage	208-230 Volts
RPM	1075 RPM
Speed	1 Speed
Amperage	1.3 Amps
Rotation	CW (Clockwise)
Bearing Type	Sleeve Bearing
Shaft Dimension	1/2-Inch x 4-1/8-Inch
Diameter	5.6-Inch
Material	Copper
Item Weight	10.5 pounds
Package Dimensions	13.7 x 6.1 x 6 inches
UPC	782247396848

Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts for your Fasco D2840 PSC Motor, please contact Fasco customer service or the authorized dealer from whom you purchased the product. Keep your proof of purchase for warranty claims.
You can typically find contact information on the manufacturer's official website or on the product packaging.

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