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› Leeson /

› Leeson C184K17DB31A 5 HP 1740 RPM 1 Phase Electric Motor Instruction Manual

Leeson C184K17DB31A

Leeson C184K17DB31A Electric Motor Instruction Manual

Model: C184K17DB31A | Part Number: 131537

[Introduction](#) [Safety](#) [Setup](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warranty & Support](#)

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of your Leeson C184K17DB31A electric motor. Please read this manual thoroughly before attempting to install or operate the motor. Retain this manual for future reference.



Figure 1: Overview of the Leeson C184K17DB31A electric motor. This image shows the general appearance of the motor, including its

2. SAFETY INFORMATION

WARNING: ELECTRIC SHOCK HAZARD. Always disconnect power before servicing or installing the motor. Failure to do so can result in serious injury or death.

Observe all local and national electrical codes. Only qualified personnel should perform installation and maintenance. Ensure proper grounding of the motor and associated equipment. Protect the motor from moisture and extreme temperatures. Do not operate the motor if it is damaged.

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Ensure the motor is securely mounted to prevent vibration and movement.
- Verify correct voltage and frequency supply before connecting.
- Keep hands and clothing clear of rotating parts.

3. SETUP AND INSTALLATION

3.1 Mounting

The Leeson C184K17DB31A motor features a rigid base for mounting. Ensure the mounting surface is flat, stable, and capable of supporting the motor's weight (approximately 96 pounds). Use appropriate fasteners to secure the motor firmly to prevent vibration and misalignment. Proper alignment with the driven equipment is critical for optimal performance and longevity.



Figure 2: Front view of the motor shaft. This image highlights the motor shaft, which must be properly aligned with the driven load during installation.

3.2 Electrical Connection

Refer to the motor's nameplate and the wiring diagram supplied with the motor for specific connection instructions. This motor is a 1-phase unit designed for 208-230V operation at 60 Hz. Ensure the power supply matches these specifications. All wiring must comply with local and national electrical codes.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Leeson motor. Always disconnect power before performing any maintenance.

5.1 General Inspection

- **Monthly:** Check for excessive vibration, unusual noise, or overheating.
- **Quarterly:** Inspect the motor's exterior for dirt, dust, or corrosion. Clean as necessary.
- **Annually:** Inspect mounting bolts for tightness and check electrical connections for signs of wear or corrosion.

5.2 Lubrication

This motor is typically equipped with sealed bearings that are lubricated for life and do not require periodic re-lubrication. Consult the motor's specific documentation or nameplate for bearing type and lubrication requirements if unsure.

5.3 Cleaning

Keep the motor's ventilation openings clear of debris to ensure proper cooling. Use compressed air to remove dust and dirt from the motor's exterior and cooling fins. Do not use water or solvents that could damage electrical components.

6. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, contact qualified service personnel.

Problem	Possible Cause	Solution
Motor does not start	No power supply Incorrect wiring Overload protection tripped	Check power source and circuit breaker Verify wiring against diagram Reset overload, check for mechanical binding
Motor overheats	Insufficient ventilation Overload condition Low voltage	Clear obstructions, ensure airflow Reduce load on motor Verify supply voltage matches nameplate
Excessive vibration	Improper mounting Misalignment with load Damaged bearings	Tighten mounting bolts Realign motor and driven equipment Contact service for bearing replacement
Unusual noise	Loose components Bearing wear Foreign object	Inspect and tighten loose parts Contact service for bearing inspection Inspect motor for foreign objects

7. SPECIFICATIONS

Key technical specifications for the Leeson C184K17DB31A electric motor:

- **Model:** C184K17DB31A
- **Part Number:** 131537
- **Horsepower (HP):** 5 HP
- **Speed (RPM):** 1740 RPM
- **Phase:** 1 Phase
- **Voltage:** 208-230 Volts

- **Frequency:** 60 Hz
- **Frame:** 184 DP
- **Duty:** Continuous (CONT)
- **Insulation Class:** F4
- **Service Factor:** 1.15
- **Item Weight:** Approximately 96 pounds
- **Product Dimensions:** Approximately 24 x 16 x 16 inches

8. WARRANTY & SUPPORT

8.1 Warranty Information

Warranty terms and conditions for the Leeson C184K17DB31A motor are provided by the manufacturer, Leeson, or the authorized seller at the time of purchase. Please refer to your purchase documentation or contact the seller for specific warranty details and registration procedures.

8.2 Technical Support

For technical assistance, parts, or service inquiries, please contact your authorized Leeson distributor or the seller from whom the motor was purchased. Provide the model number (C184K17DB31A) and part number (131537) when seeking support to ensure accurate assistance.

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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.

Submit question