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Leeson C6T17DK9 F

Leeson 111328.00 Drip-Proof Brakemotor User Manual

Model: C6T17DK9 F

INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Leeson 111328.00 Drip-Proof Brakemotor. Please read this manual thoroughly before installation or operation to ensure proper use and to prevent damage or injury.



Image: Leeson 111328.00 Drip-Proof Brakemotor. This image shows the main body of the motor, its electrical connection box, mounting feet, and the output shaft with the brake assembly visible at the front.

The Leeson 111328.00 is a robust 1HP, 3-phase, D56C frame brakemotor designed for industrial applications requiring reliable stopping power. It operates at 1800 RPM with a voltage range of 208-230/460V at 60Hz. Its drip-proof (ODP) enclosure provides protection against dripping water, making it suitable for various environments.

SAFETY INFORMATION

Always observe the following safety precautions to prevent personal injury or damage to the equipment:

- Ensure all power is disconnected and locked out before performing any installation, maintenance, or inspection.
- Only qualified personnel should install, operate, and maintain this equipment.
- Verify that the supply voltage matches the motor's nameplate voltage.
- Proper grounding is essential to prevent electrical shock.
- Do not operate the motor if it is damaged or if any components are missing.
- Protect the motor from excessive moisture, dust, and corrosive environments beyond its drip-proof rating.

SETUP AND INSTALLATION

Unpacking and Inspection

Carefully remove the motor from its packaging. Inspect the motor for any signs of shipping damage. Report any damage to the carrier immediately. Verify that the model number and specifications on the motor's nameplate match your order.

Mounting

The Leeson 111328.00 features a D56C frame with rigid mounting. Ensure the mounting surface is flat, rigid, and capable of supporting the motor's weight (approximately 31 pounds) and operational forces. Secure the motor using appropriate fasteners to prevent vibration and misalignment.

Electrical Connections

This motor operates on 3-phase power at 208-230/460V. Refer to the wiring diagram located on the motor's nameplate or inside the terminal box cover for correct connections. Ensure all connections are tight and properly insulated. Implement appropriate overcurrent protection and motor control devices as per local electrical codes and standards.

- **Voltage Selection:** Confirm the motor is wired for the correct supply voltage. Incorrect wiring can lead to motor damage.
- **Grounding:** Connect the motor to a reliable earth ground.
- **Brake Wiring:** The brakemotor includes an integrated brake. Follow the specific wiring instructions for the brake mechanism to ensure proper engagement and disengagement.

OPERATING INSTRUCTIONS

Pre-Operation Checks

- Verify all electrical connections are secure.
- Ensure the motor is properly mounted and aligned with the driven equipment.
- Check for any obstructions around the motor's ventilation openings.
- Confirm the brake is functioning correctly (engaging when power is off, disengaging when power is applied).

Starting the Motor

Apply power to the motor. The motor should start smoothly and reach its rated speed of 1800 RPM. Observe for unusual noises, vibrations, or excessive heat during the initial startup and throughout operation.

Stopping the Motor

Remove power from the motor. The integrated brake will engage, bringing the motor to a rapid stop. Ensure the brake holds the load securely.

MAINTENANCE

Regular maintenance is crucial for extending the life and ensuring the reliable operation of your Leeson brakemotor.

Routine Checks (Weekly/Monthly)

- **Visual Inspection:** Check for dirt, dust, or debris accumulation on the motor housing and ventilation openings. Clean as necessary.
- **Noise and Vibration:** Listen for any unusual noises or feel for excessive vibration. These can indicate bearing wear or misalignment.
- **Temperature:** Monitor the motor's operating temperature. Excessive heat can indicate overload or ventilation issues.
- **Brake Inspection:** Check the brake for proper operation, wear on the friction material, and correct air gap (if adjustable).

Lubrication

The motor bearings are typically pre-lubricated for life or require periodic re-lubrication depending on the specific bearing type and operating conditions. Refer to the motor's nameplate or Leeson's official documentation for specific lubrication schedules and recommended grease types.

Cleaning

Keep the motor clean and free of obstructions to ensure proper cooling. Use compressed air to remove dust and debris from the motor's exterior and ventilation openings. Avoid using water or solvents that could damage electrical components.

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; Faulty brake.	Check power supply and circuit breaker; Verify wiring against diagram; Reset overload; Inspect brake wiring and function.
Motor runs hot.	Overload; Insufficient ventilation; High ambient temperature; Incorrect voltage.	Reduce load; Clear ventilation openings; Ensure ambient temperature is within limits; Verify supply voltage.
Excessive noise or vibration.	Misalignment; Worn bearings; Loose mounting; Unbalanced load.	Check and correct alignment; Inspect and replace bearings if necessary; Tighten mounting bolts; Balance load.
Brake not engaging/disengaging.	Incorrect brake wiring; Worn brake components; Power supply issue to brake.	Check brake wiring; Inspect brake friction material and replace if worn; Verify power to brake coil.

SPECIFICATIONS

Key technical specifications for the Leeson 111328.00 Drip-Proof Brakemotor:

Model Number: C6T17DK9 F

Brand: Leeson

Horsepower (HP): 1 HP

RPM: 1800 RPM

Voltage: 208-230/460V

Phase: 3 Phase

Frequency: 60Hz

Frame: D56C

Mounting: Rigid

Enclosure: Open, Drip-Proof (ODP)

Item Weight: Approximately 31 Pounds

Certifications: UL Listed, CSA Certified

WARRANTY AND SUPPORT

Warranty Information

Leeson products are manufactured to high standards. For specific warranty terms and conditions, please refer to the warranty statement provided with your purchase documentation or visit the official Leeson website. Keep your proof of purchase for warranty claims.

Customer Support

For technical assistance, spare parts, or service inquiries, please contact Leeson customer support. When contacting support, have your motor's model number (C6T17DK9 F) and serial number (if applicable) ready to expedite assistance.

Note: Contact information for Leeson can typically be found on their official website or on the product packaging.