

Leeson 113266

Leeson Electric Motor #113266 User Manual

1.5 HP, 1725 RPM, 56H Frame, 115/208-230V, Open Drip

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Leeson Electric Motor, Model #113266. Please read this manual thoroughly before attempting to install or operate the motor. Retain this manual for future reference.

2. SAFETY INFORMATION

Electric motors can be hazardous if not installed and operated correctly. Always observe the following safety precautions:

- **Electrical Hazard:** Ensure power is disconnected before any installation, maintenance, or inspection. Only qualified personnel should perform electrical wiring.
- **Rotating Parts:** Keep hands, clothing, and tools clear of rotating parts during operation.
- **Thermal Protection:** This motor features manual thermal protection. If the motor overheats and trips, allow it to cool before manually resetting the protector. Investigate the cause of overheating.
- **Proper Grounding:** Always ensure the motor is properly grounded according to local and national electrical codes.
- **Ventilation:** Ensure adequate ventilation around the motor to prevent overheating.
- **Mounting:** Securely mount the motor to a stable, vibration-free surface.

3. PRODUCT OVERVIEW

The Leeson Electric Motor #113266 is a 1.5 horsepower, 1725 RPM, single-phase motor designed for various applications. It features an Open Dripproof (ODP) enclosure, a 56H frame, and operates on 115/208-230V AC. This motor is equipped with a capacitor-start/run design and manual thermal protection.



Figure 1: Front-side view of the Leeson Electric Motor #113266, showcasing the main body, cooling fins, and shaft. This image provides a general perspective of the motor's design.



Figure 2: Side view of the Leeson Electric Motor #113266, highlighting the manufacturer's label with detailed specifications such as model number, voltage, RPM, and current ratings. This label is crucial for identification and wiring.



Figure 3: Rear view of the Leeson Electric Motor #113266, showing the fan cover and a visible warning label. This perspective illustrates the motor's cooling mechanism and important safety notices.

4. SETUP AND INSTALLATION

Proper installation is critical for the motor's performance and longevity. It is recommended that installation be performed by a qualified electrician or technician.

4.1 Mounting

The motor features a rigid base mounting type. Securely fasten the motor to a flat, stable, and vibration-free surface using appropriate bolts and washers. Ensure the mounting surface can support the motor's weight (approximately 39 pounds) and operational forces.

4.2 Electrical Connection

Before making any electrical connections, ensure the power supply is completely disconnected and locked out. Refer to the motor's nameplate (Figure 2) for specific wiring diagrams and voltage requirements.

- **Voltage:** This motor is designed for 115/208-230V AC, single-phase, 60 Hz operation. Connect the motor to the appropriate voltage supply. Incorrect voltage can damage the motor.
- **Amperage:** The full load amps are 13.4A at 115V and 6.7A at 208-230V. Ensure your circuit breaker and wiring are rated for these currents.
- **Grounding:** Connect the motor to an earth ground as per local and national electrical codes.

- **Shaft Rotation:** The motor supports CW/CCW shaft rotation. Consult the wiring diagram on the motor's nameplate for instructions on how to change the rotation direction, if necessary.

4.3 Shaft Connection

The motor shaft has a diameter of 5/8 inch and a length of 1 7/8 inches. It includes a key for secure coupling to the driven equipment. Ensure proper alignment between the motor shaft and the driven load to prevent premature bearing wear and vibration.

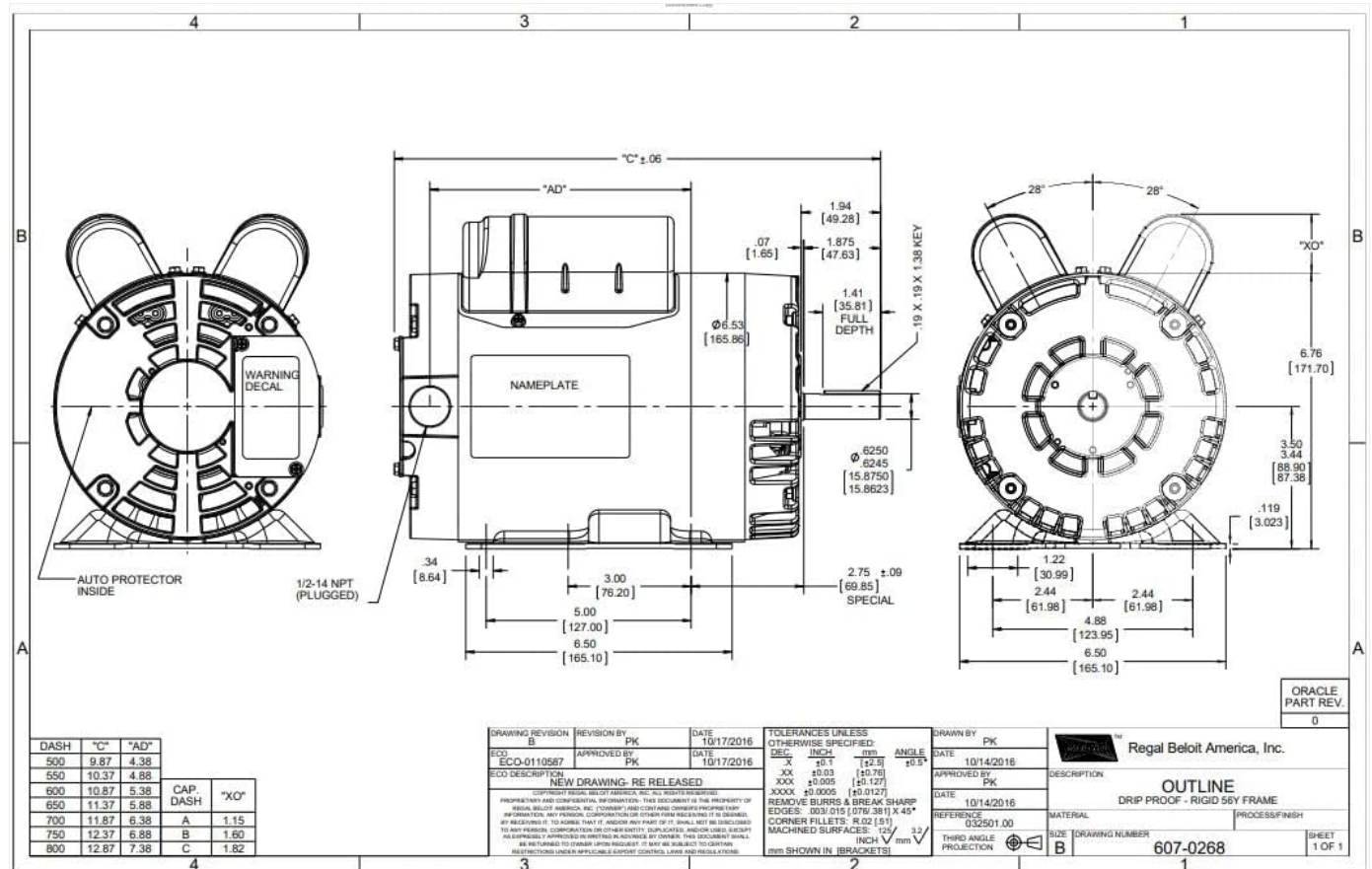


Figure 4: Technical drawing (outline) of the Leeson Electric Motor #113266, providing detailed dimensions and component locations such as the auto protector and nameplate. This diagram is essential for precise installation planning.

5. OPERATING INSTRUCTIONS

Once properly installed and wired, the motor is ready for operation.

- **Initial Start-up:** After verifying all connections and safety measures, apply power to the motor. Observe for any unusual noises, vibrations, or smells. If any abnormalities are detected, immediately disconnect power and investigate.
- **Thermal Protection:** This motor is equipped with manual thermal overload protection. If the motor becomes excessively hot, the protector will trip, shutting off the motor. Allow the motor to cool down completely before manually pressing the reset button (if visible and accessible, otherwise it may be internal). Identify and correct the cause of the overload before restarting.
- **Ambient Temperature:** The motor is designed for an ambient temperature of up to 40 degrees C. Operating in higher temperatures may lead to overheating and reduced lifespan.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your motor.

- **Cleaning:** Periodically clean the exterior of the motor, especially the cooling fins and ventilation openings, to ensure proper

airflow. The Open Dripproof (ODP) design means it is protected from falling liquids and solids, but not from direct spray or harsh environments.

- **Bearings:** This motor uses ball bearings, which are typically sealed and require no lubrication under normal operating conditions. Avoid disassembling the motor unless absolutely necessary and performed by qualified personnel.
- **Inspection:** Regularly inspect the motor for signs of wear, damage, loose connections, or unusual noise/vibration. Address any issues promptly.

7. TROUBLESHOOTING

This section provides guidance for common issues. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Motor does not start	No power, tripped breaker, thermal overload tripped, incorrect wiring	Check power supply, reset breaker, allow motor to cool and reset thermal protector, verify wiring against nameplate diagram
Motor overheats	Overload, insufficient ventilation, high ambient temperature, incorrect voltage	Reduce load, clear obstructions, ensure adequate airflow, verify voltage, allow motor to cool and reset
Excessive noise or vibration	Loose mounting, misalignment, worn bearings, foreign object	Tighten mounting bolts, check alignment of driven equipment, inspect for foreign objects, consult technician for bearing issues
Motor runs slowly	Low voltage, excessive load	Verify power supply voltage, reduce mechanical load on the motor

8. SPECIFICATIONS

Detailed technical specifications for the Leeson Electric Motor #113266:

Specification	Value
Brand	Leeson
Model Number	113266.00
Horsepower (HP)	1.5 HP
Nameplate RPM	1740 RPM (approx. 1725 RPM operating)
Frame Size	56H
Voltage	115/208-230V AC
Full Load Amps (FLA)	13.4A (115V) / 6.7A (208-230V)
Phase	Single Phase
Frequency	60 Hz
Enclosure Type	Open Dripproof (ODP)
Motor Thermal Protection	Manual
Motor Service Factor	1.15

Specification	Value
Motor Bearings	Ball
Insulation Class	B
Ambient Temperature	40 Degrees C
Shaft Diameter	5/8 in
Shaft Length	1 7/8 in
Rotation	CW/CCW Motor Shaft Rotation
Mounting Type	Rigid Base
Material	Copper
Item Weight	39 Pounds
Product Dimensions	14 x 8 x 11 inches
Standards	CSA, UL Recognized
UPC	691720011881

9. WARRANTY INFORMATION

Specific warranty details for the Leeson Electric Motor #113266 are typically provided by the manufacturer at the time of purchase or can be found on the official Leeson website. Please refer to your purchase documentation or contact Leeson directly for comprehensive warranty terms and conditions.

Extended protection plans may be available from your retailer. These plans are separate from the manufacturer's warranty and offer additional coverage.

10. SUPPORT

For technical assistance, parts, or further inquiries regarding your Leeson Electric Motor #113266, please contact Leeson customer support through their official website or the contact information provided with your product documentation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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