

Leeson M1120185.00

Leeson Electric M1120185.00 Washdown Duty Motor Instruction Manual

Model: M1120185.00 | Brand: Leeson Electric

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Leeson Electric M1120185.00 Washdown Duty Motor. Please read this manual thoroughly before attempting to install or operate the motor. Retain this manual for future reference.

The Leeson Electric M1120185.00 is a .25HP, 2500RPM, 90V, 32 Frame, Square Flange, Footless, TE, Washdown Duty Motor designed for demanding environments where regular cleaning and resistance to moisture are critical.



Figure 1: Leeson Electric M1120185.00 Washdown Duty Motor. This image shows the motor from an angled perspective, highlighting its white, washdown-rated casing, the terminal box on top, and the output shaft with a square flange mounting face.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in serious injury or death. Only qualified personnel should install, operate, or maintain this equipment.

- Always disconnect power before performing any work on the motor or connected equipment.
- Ensure proper grounding to prevent electrical shock.

- Protect against rotating parts. Keep hands, clothing, and tools clear of the motor shaft during operation.
- Do not operate the motor in environments exceeding its specified temperature or humidity ratings.
- Refer to local electrical codes and standards for installation requirements.

3. SETUP AND INSTALLATION

3.1 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 motor nameplate matches the specifications required for your application.

3.2 Mounting

This motor features a square flange mounting design and is footless. Ensure the mounting surface is flat, rigid, and capable of supporting the motor's weight (approximately 13 pounds) and any connected load. Secure the motor using appropriate fasteners through the flange holes. Ensure proper alignment with the driven equipment to prevent excessive vibration and premature bearing wear.

3.3 Electrical Connections

CAUTION: All electrical work must be performed by a qualified electrician.

1. Ensure the power supply is disconnected and locked out.
2. Open the terminal box cover.
3. Connect the 90V DC power supply to the motor terminals as indicated on the motor's wiring diagram (typically found inside the terminal box cover or on the motor nameplate).
4. Ensure all connections are tight and secure.
5. Properly ground the motor frame according to local electrical codes.
6. Close and seal the terminal box cover to maintain the washdown duty rating.

4. OPERATING INSTRUCTIONS

4.1 Pre-Operation Checks

- Verify all mounting bolts are tight.
- Confirm electrical connections are secure and properly insulated.
- Ensure the motor shaft rotates freely without obstruction.
- Check that the driven equipment is properly aligned and secured.

4.2 Starting the Motor

Once all pre-operation checks are complete, apply power to the motor. The motor should start smoothly and reach its rated speed of 2500 RPM. Monitor the motor for any unusual noises, vibrations, or excessive heat during initial startup and operation.

4.3 Stopping the Motor

To stop the motor, disconnect the power supply. Allow the motor and driven equipment to come to a complete stop before performing any inspections or maintenance.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your motor. Always disconnect power

before performing maintenance.

5.1 Cleaning

As a washdown duty motor, it is designed to withstand cleaning. Use mild detergents and low-pressure water sprays. Avoid high-pressure sprays directly on seals or electrical enclosures. Ensure the motor is completely dry before re-applying power.

5.2 Inspection Schedule

- **Monthly:** Check for unusual noise or vibration. Inspect the motor casing for damage or corrosion. Verify all mounting bolts are secure.
- **Quarterly:** Inspect electrical connections for tightness and signs of overheating. Check shaft alignment if possible.
- **Annually:** Perform a thorough inspection of the motor, including bearings (if accessible and serviceable, refer to specific motor documentation for bearing lubrication schedules if applicable).

5.3 Lubrication

This motor typically features sealed bearings that are lubricated for life and do not require routine re-lubrication. Consult the motor's specific documentation or contact Leeson Electric support if you suspect bearing issues or require further information on lubrication.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Motor does not start	No power supply; Incorrect wiring; Overload protection tripped; Motor damage.	Check power supply and circuit breaker; Verify wiring against diagram; Reset overload; Inspect motor for damage.
Motor runs hot	Overload; Insufficient ventilation; High ambient temperature; Bearing issues.	Reduce load; Ensure proper airflow; Operate within temperature limits; Inspect bearings.
Excessive noise or vibration	Misalignment; Loose mounting; Worn bearings; Unbalanced load.	Check and correct alignment; Tighten mounting bolts; Inspect/replace bearings; Balance load.
Reduced speed or torque	Low voltage; Overload; Worn brushes (if applicable, though this is a permanent magnet motor); Motor damage.	Verify supply voltage; Reduce load; Consult service for internal inspection.

If troubleshooting steps do not resolve the issue, contact Leeson Electric customer support or a qualified service technician.

7. SPECIFICATIONS

Feature	Detail
Model Number	M1120185.00
Brand	Leeson Electric
Horsepower (HP)	0.25 HP

Feature	Detail
Rated Speed	2500 RPM
Voltage	90V DC
Frame Size	32 Frame
Mounting Type	Square Flange, Footless
Enclosure Type	Totally Enclosed (TE), Washdown Duty
Material	Copper (internal windings)
Item Weight	13 Pounds

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Leeson Electric website. For technical support, parts, or service inquiries, please contact Leeson Electric customer service directly. Ensure you have your motor model number (M1120185.00) and serial number (if applicable) ready when contacting support.

Leeson Electric Contact Information: (Refer to official Leeson Electric website or product packaging for current contact details.)

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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

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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