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TOAUTO 90W

TOAUTO Concrete Vibrator Vibration Motor User Manual

Model: 90W

Product Overview

The TOAUTO 90W Concrete Vibrator Vibration Motor is a robust and durable single-phase AC 110V motor designed for various industrial and home applications requiring vibration. It operates at 3600 RPM and features an aluminum alloy case for efficient heat dissipation and longevity.



Image: The TOAUTO Concrete Vibrator Vibration Motor, showcasing its compact design and robust construction. This model operates at 110V AC, single phase, and 3600 RPM, providing powerful and durable performance.

Key Features:

- **Powerful Motor:** 90W, 110V AC Single Phase, 3600 RPM for strong and consistent vibration.
- **High-Quality Construction:** Features an aluminum alloy case for lightweight design and rapid heat dissipation, ensuring durability. Pure copper coils contribute to extended operational life.

- **Precision Engineering:** Equipped with a high-precision rotor for smooth, low-noise operation and long service life. Connections are anti-oxidation and rust-resistant, with fixed cast junction boxes providing excellent waterproof insulation.
- **Upgraded Power Cable:** Includes a special oil-resistant and anti-oxidation power supply line with an anti-vibration outlet protective cover for enhanced durability against long-term vibration.
- **Versatile Application:** Suitable for a wide range of uses including vibrating tables, shaker tables, vibrating feeders, vibrating screens, and specific gravity stone removers, both indoors and outdoors.

Safety Instructions

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

- Ensure the power supply matches the motor's voltage (110V AC).
- Disconnect power before any installation, maintenance, or adjustment.
- Ensure proper grounding to prevent electrical shock. Refer to the wiring diagram for correct connections.
- Do not operate the motor in wet conditions unless specifically designed and rated for such environments (IP65 rated for dust and water resistance).
- Keep hands and loose clothing away from moving parts during operation.
- Mount the motor securely to a stable surface to prevent accidental movement or detachment.



Image: The motor is rated IP65 for dust and water resistance, indicating protection against dust ingress and low-pressure water jets from any direction. This enhances its suitability for various working environments.

Setup and Installation

Mounting:

The vibration motor should be securely mounted to a stable, flat surface capable of withstanding the motor's vibration force. Use appropriate bolts and ensure all mounting points are tightened evenly to prevent imbalance and excessive wear.



Image: The motor's aluminum alloy case with integrated mounting feet. The image shows the robust construction and the points for secure attachment to a vibrating surface or frame.

Wiring Instructions:

The motor is designed for 110V AC single-phase operation. Proper wiring is crucial for safe and effective performance. Refer to the diagram below for standard wiring connections. It is recommended to have a qualified electrician perform the wiring if you are unsure.

- **Earth Wire:** Yellow with Green Stripe
- **Neutral Wire:** Blue
- **Live Wire:** Brown

Ensure all connections are secure and insulated. The motor includes an upgraded power cable with an anti-vibration outlet protective cover for enhanced durability.

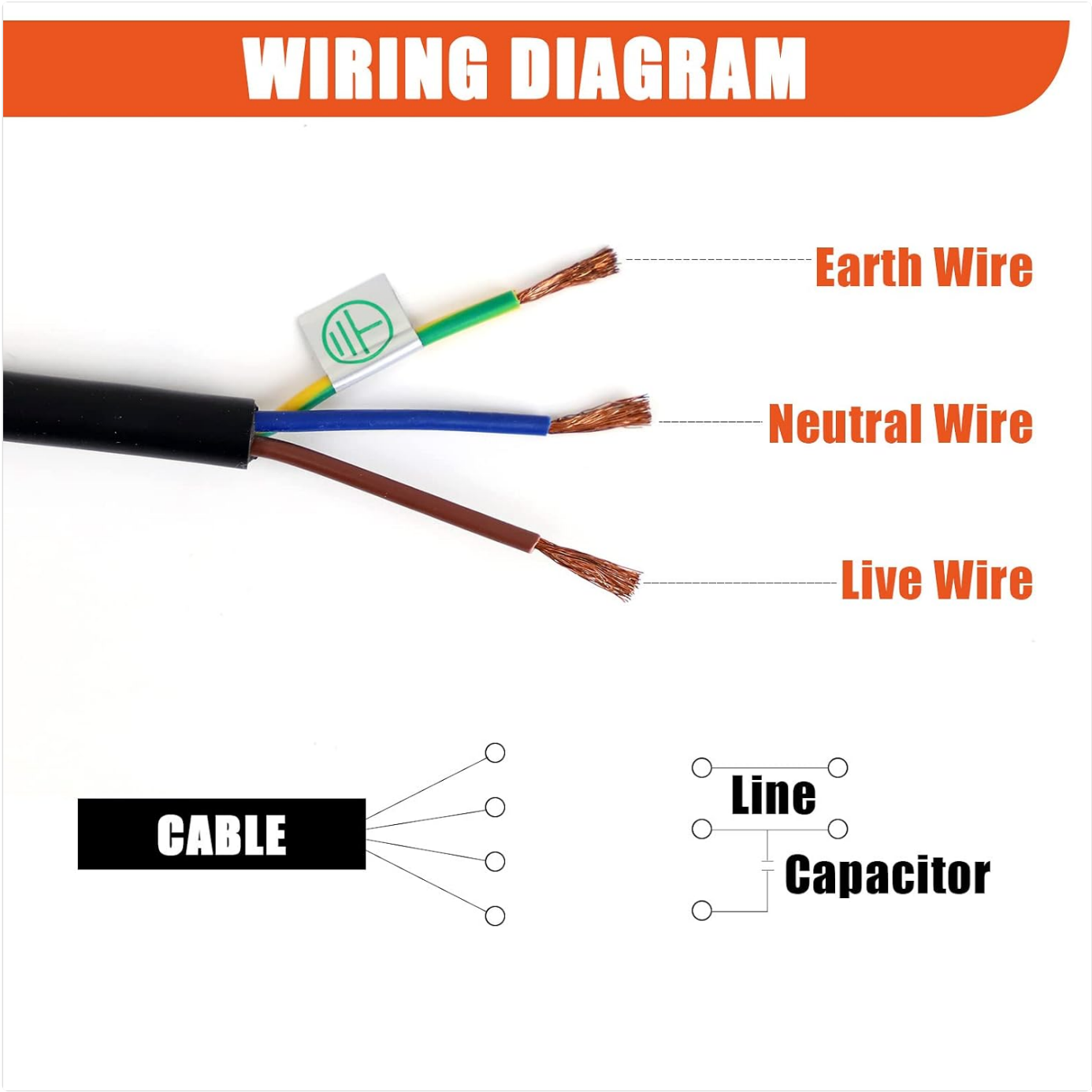

Image: A detailed wiring diagram showing the connection points for the Earth, Neutral, and Live wires. The diagram also illustrates the internal capacitor connection for optimal motor performance.



Image: Close-up of the upgraded power cable, highlighting its oil-resistant and anti-oxidation properties, along with the protective cover designed to withstand continuous vibration.

Operating Instructions

Adjusting Vibration Force:

The vibration force of the motor can be adjusted by modifying the eccentric blocks located on the rotor. This allows you to fine-tune the intensity of the vibration to suit your specific application.

1. Ensure the motor is disconnected from the power supply.
2. Carefully remove the end caps of the motor to access the eccentric blocks.
3. Adjust the position of the eccentric weights. Moving them closer to the center will reduce vibration force, while moving them further out will increase it.
4. Once adjusted, securely reattach the end caps.



Image: A view of the adjustable eccentric block mechanism. This component allows users to modify the amplitude of vibration by changing the position of the weights.

Typical Applications:

This motor is versatile and can be integrated into various systems:

- **Vibrating Tables:** For compacting concrete, resin, or other materials.
- **Shaker Tables:** Used in laboratories or for material separation.
- **Vibrating Feeders:** To ensure consistent flow of granular materials.
- **Vibrating Screens:** For sifting and sorting aggregates or powders.
- **Specific Gravity Stone Removers:** In agricultural or processing applications.



Image: A collage demonstrating various applications of the vibration motor, including light industry, construction (concrete compaction), vibratory feeders, and general vibration equipment.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your TOAUTO vibration motor.

- **Cleaning:** Periodically clean the exterior of the motor to remove dust and debris. Ensure ventilation fins are clear for proper heat dissipation.
- **Inspections:** Regularly inspect the power cable for any signs of wear, cuts, or damage. Check all mounting bolts for tightness.
- **Bearings:** The motor is equipped with high-temperature bearings designed for long life. While generally maintenance-free, listen for unusual noises that might indicate bearing wear.



Image: A close-up of the high-temperature bearings used in the motor, designed for durability and smooth operation under demanding conditions.

Troubleshooting

Problem	Possible Cause	Solution
Motor does not start	No power supply; Incorrect wiring; Motor overload; Internal fault.	Check power connection and circuit breaker. Verify wiring against diagram. Reduce load if applicable. Contact support if internal fault suspected.
Weak vibration	Eccentric weights incorrectly adjusted; Motor undersized for application; Loose mounting.	Adjust eccentric weights for maximum force. Ensure motor is appropriately sized. Tighten all mounting bolts.
Excessive noise or overheating	Bearing wear; Obstruction; Insufficient ventilation; Motor overload.	Inspect bearings for wear (contact support if needed). Clear any obstructions. Ensure proper airflow around motor. Reduce load.
Intermittent operation	Loose electrical connections; Damaged power cable.	Check and secure all wiring connections. Inspect power cable for damage and replace if necessary.

Specifications

Attribute	Value
Model	90W
Brand	TOAUTO
Voltage	110 Volts AC, Single Phase

Attribute	Value
Speed	3600 RPM
Horsepower / Power	90 Watts
Material	Aluminum Alloy Case, Pure Copper Coils
Protection Rating	IP65 Dust & Waterproof
Package Dimensions	9.13 x 6.73 x 5.24 inches
Weight	5.27 Pounds
Date First Available	October 24, 2017

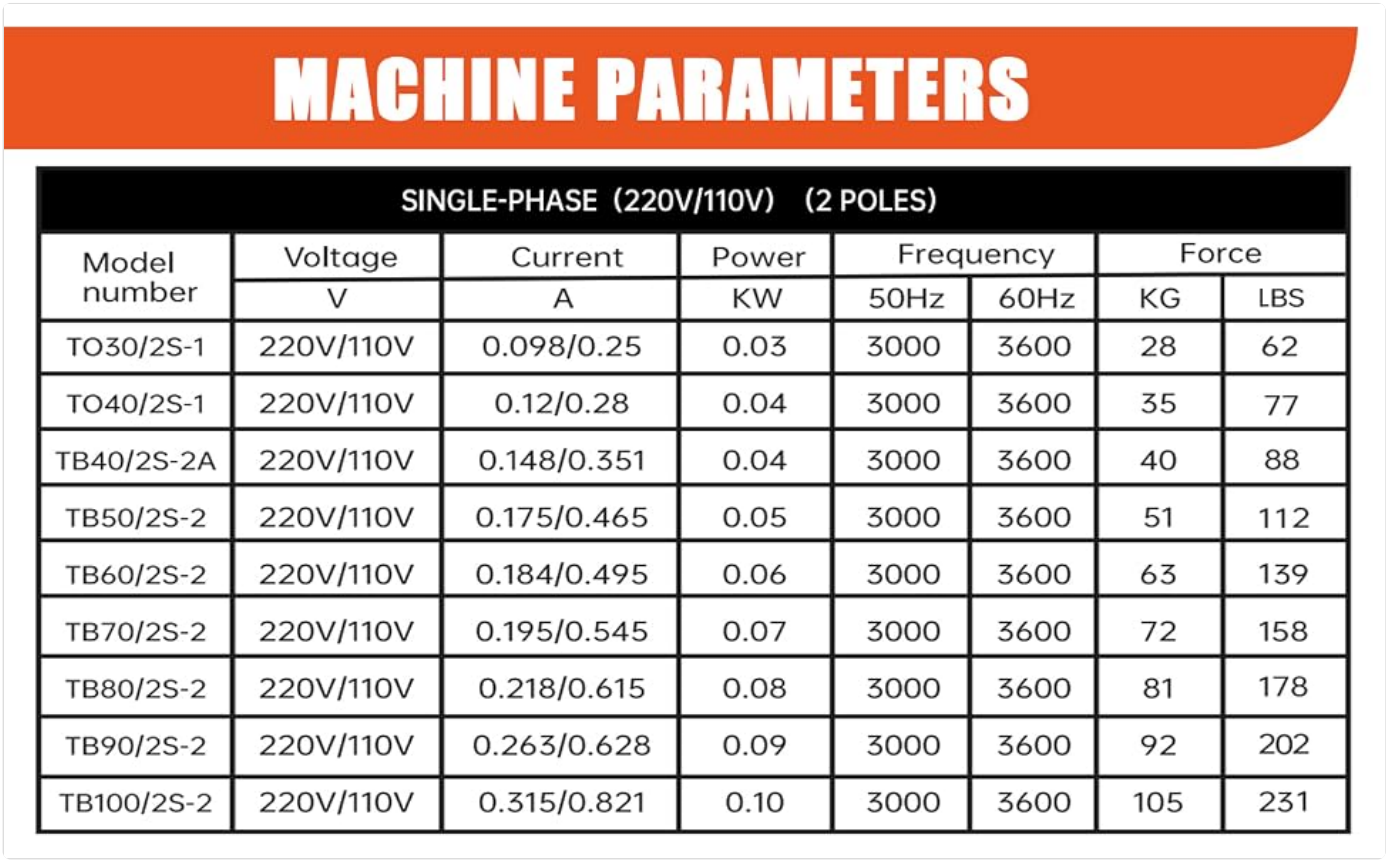

Image: A table detailing various machine parameters for different models, including voltage, current, power, frequency, and force in both kilograms and pounds. This specific manual focuses on the 90W model.

Warranty and Support

For warranty information, technical support, or service inquiries, please contact TOAUTO customer service. Keep your purchase receipt and product model number handy for faster assistance.

Visit the official TOAUTO store for more information and contact details:TOAUTO Store on Amazon

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