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> VEVOR 1.5HP Electric Motor Instruction Manual

VEVOR SY-1.5HP-4P-B34-C

VEVOR 1.5HP Electric Motor Instruction Manual

Model: SY-1.5HP-4P-B34-C

1. INTRODUCTION

Thank you for choosing the VEVOR 1.5HP Electric Motor. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your motor. Please read this manual thoroughly before use and retain it for future reference. This motor is designed for general purpose applications, including water pumps, agricultural machinery, and various general equipment, offering reliable and powerful performance.



Figure 1: VEVOR 1.5HP Electric Motor. This image shows the complete electric motor assembly, highlighting its robust construction and key components.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the motor.

- **Electrical Safety:** Ensure all wiring is performed by a qualified electrician in accordance with local and national electrical codes. Disconnect power before performing any installation, maintenance, or troubleshooting.
- **Proper Grounding:** The motor must be properly grounded to prevent electrical shock.
- **Ventilation:** Ensure adequate ventilation around the motor to prevent overheating. Do not obstruct air vents.
- **Overload Protection:** The motor is equipped with overload protection with a manual reset. Do not bypass or tamper with this safety feature. If the motor trips, allow it to cool before resetting.
- **Moving Parts:** Keep hands, clothing, and tools clear of rotating parts (shaft, fan) during operation. Install appropriate guards if necessary.

- **Environment:** Do not operate the motor in explosive atmospheres or in environments with excessive dust, moisture, or corrosive substances unless specifically designed for such conditions.
- **Voltage Compatibility:** Verify that the power supply voltage matches the motor's specified voltage (115V/230V AC).



Figure 2: High Quality & Safe Features. This image illustrates the motor's overload protection with manual reset button and its heavy-duty rolled steel shell, emphasizing durability and safety.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Powerful Performance:** 1.5HP, Single Phase, Full Load Current: 15.0/7.5A, AC 115V/230V 60Hz, 1725 RPM High Speed, SF: 1.15.
- **Sturdy Frame Type:** 56C Frame, 5/8" Keyed shaft, Shaft length: 1.88", Keyway size: 0.188".
- **Dual Rotation Direction:** Offers reversible CW/CCW rotation for versatile applications.
- **Durable and Safe:** CSA standards tested, heavy-duty rolled steel shell, and overload protection with manual reset.



Figure 4: 1725 RPM High-Speed Rotation. This graphic illustrates the motor's high rotational speed, emphasizing robust power, stable performance, and extended longevity.

4. SPECIFICATIONS

Attribute	Value
Model Number	SY-1.5HP-4P-B34-C
Horsepower	1.5 HP
Voltage	AC 115V/230V
Frequency	60 Hz
Speed	1725 RPM
Full Load Current	15.0A (115V) / 7.5A (230V)

Attribute	Value
Frame Type	56C Frame
Shaft Diameter	5/8" Keyed Shaft
Shaft Length	1.88"
Keyway Size	0.188"
Product Dimensions (L x W x H)	13.2 x 9.1 x 8.3 inches (335 x 230 x 210 mm)
Net Weight	37.0 lbs (16.8 kg)



Figure 5: Product Dimensions. This diagram provides a detailed view of the motor's physical dimensions in both inches and millimeters, along with key specifications.

5. SETUP AND INSTALLATION

5.1 Mounting

The motor features a 56C frame with a sturdy mounting base. Secure the motor firmly to a stable, level surface using appropriate bolts and washers. Ensure the mounting surface can support the weight and operational forces of the motor and connected equipment. Proper alignment of the motor shaft with the driven equipment is crucial to prevent vibration and premature wear.

5.2 Electrical Wiring

WARNING: All electrical wiring must be performed by a qualified electrician and comply with all applicable local and national electrical codes. Ensure power is disconnected at the source before beginning any wiring.

- The motor supports both 115V and 230V AC operation. Refer to the wiring diagram located on the motor's nameplate or inside the terminal box for correct connections based on your supply voltage.
- Ensure proper grounding of the motor.
- Use appropriately sized wiring and circuit protection (fuses or circuit breakers) for the motor's full load current (15.0A for 115V, 7.5A for 230V).
- **Rotation Direction:** This motor supports CW (Clockwise) and CCW (Counter-Clockwise) rotation. The wiring diagram will indicate how to reverse the rotation direction by changing specific wire connections within the terminal box. Always verify rotation direction before connecting to the final application.

6. OPERATING INSTRUCTIONS

6.1 Initial Start-up

- Before starting, ensure all connections are secure and the motor is properly mounted and aligned.
- Verify that the motor's shaft is free to rotate without obstruction.
- Apply power to the motor. The motor should start smoothly and reach its operating speed of 1725 RPM.
- Monitor the motor for any unusual noises, vibrations, or excessive heat during the first few minutes of operation. If any issues are observed, immediately shut down the motor and investigate.

6.2 Overload Protection Reset

The motor is equipped with a manual reset button for overload protection. If the motor stops unexpectedly, it may be due to an overload condition. Allow the motor to cool down for several minutes, then press the red reset button located on the motor's terminal box to restore operation. If the overload trips frequently, investigate the cause (e.g., excessive load, low voltage, poor ventilation).

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VEVOR electric motor.

- **Cleaning:** Keep the motor clean and free from dust, dirt, and debris, especially around the ventilation openings, to ensure proper cooling. Use a soft brush or compressed air.
- **Inspection:** Periodically inspect the motor for signs of wear, damage, or loose connections. Check the shaft for any signs of bending or damage.
- **Lubrication:** This motor typically features sealed bearings that are lubricated for life and do not require routine re-lubrication. Refer to the motor's nameplate or specific documentation for any lubrication requirements.
- **Wiring Check:** Ensure all electrical connections remain tight and free from corrosion.

8. TROUBLESHOOTING

This section outlines common issues and their potential solutions.

Problem	Possible Cause	Solution
Motor does not start	No power; tripped overload protector; incorrect wiring; seized shaft/bearings.	Check power supply and circuit breaker/fuse. Reset overload button. Verify wiring against diagram. Check for mechanical obstructions.
Motor overheats	Excessive load; poor ventilation; low voltage; frequent starts/stops.	Reduce load. Clear ventilation openings. Check supply voltage. Reduce frequency of starts.
Unusual noise or vibration	Loose mounting; misaligned shaft; worn bearings; foreign object.	Tighten mounting bolts. Check and correct shaft alignment. Inspect bearings (contact service if worn). Check for and remove any foreign objects.
Motor trips overload frequently	Continuous overload; motor undersized for application; internal fault.	Ensure load is within motor's capacity. Consider a higher HP motor if consistently overloaded. Contact qualified technician for internal inspection.

9. WARRANTY AND SUPPORT

VEVOR products are designed for durability and performance. For specific warranty information regarding your 1.5HP Electric Motor, please refer to the warranty card included with your purchase or visit the official VEVOR website. For technical support, parts, or service inquiries, please contact VEVOR customer service through their official channels. You can find more information and support at the [VEVOR Store on Amazon](#).

10. MEDIA RESOURCES

While no official product videos from the seller were available for direct embedding in this manual, additional visual information and product demonstrations may be available on the VEVOR official website or their official YouTube channel. Please refer to these resources for further visual guidance.