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› Bemonoc High Torque 6W AC Motor 110V 50/60HZ Low Speed 7.5Rpm Instruction Manual

Bemonoc 7.5RPM 6Watts (110V One-phase Adjustable Motor)

Bemonoc High Torque AC Motor Instruction Manual

Model: 7.5RPM 6Watts (110V One-phase Adjustable Motor)

Brand: Bemonoc

1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation, setup, and maintenance of your Bemonoc High Torque 6W AC Motor. This small electric reducer motor is designed for applications requiring precise speed control and reversible rotation, such as in the printing industry, conveyor systems, and various industrial machinery. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of the product.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all components listed below are present and undamaged:

- 1 x 110V AC Motor
- 1 x Gearbox (integrated with motor)
- 1 x AC Governor (Speed Controller)
- 1 x Power Cord
- 1 x Mounting Bracket
- Wiring Instructions



Figure 2.1: Contents of the product package, including the motor, speed controller, and connecting cables.

3. PRODUCT FEATURES

The Bemonoc High Torque AC Motor offers a range of features designed for robust and versatile performance:

- **Product Specifications:** Features 6W power, a 1:180 (180k) Reduction Ratio, 26.6lb.in Max Rated Torque, and an 8mm Shaft Diameter, ensuring reliable performance across various applications.
- **Reversible Variable Speed:** The AC motor's speed can be finely adjusted from 0 to 7.5 RPM and is capable of rotation in both directions (CW/CCW). This makes it ideal for applications requiring changes in rotation direction, such as conveyor belts or winches, providing precise control tailored to various tasks.
- **Premium Material:** Constructed with high-precision alloy steel gears, the AC single-phase 110V electric motor with gearbox ensures durability, wear resistance, and a long service life.
- **Wide Application:** The AC variable speed motor is versatile across industries, including home appliances, robotics, agriculture, automotive, and industrial machinery.

Small Size Quiet Operation

Equipped with a bracket provides stable fixation
reduces vibration and noise suitable for
applications with limited space
and high requirements for noise levels

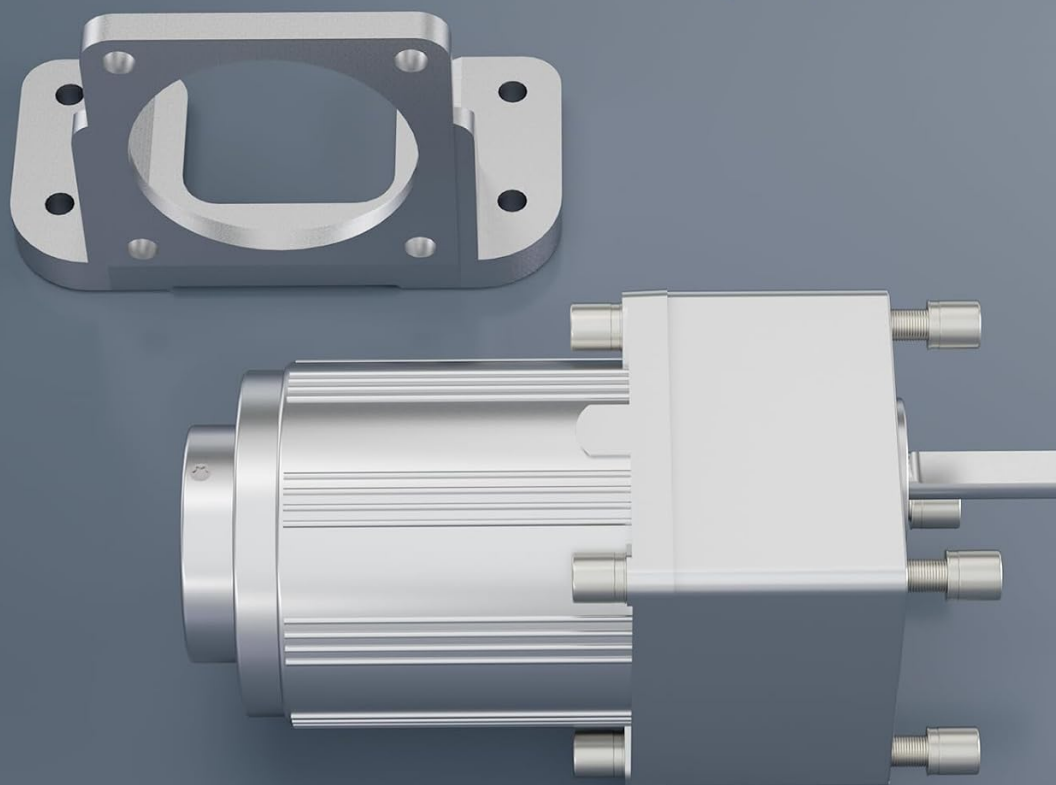


Figure 3.1: Compact design and quiet operation.

High and Stable Performance

It utilizes advanced technology and materials to deliver reliable operational stability and outstanding performance suitable for long-time operation.

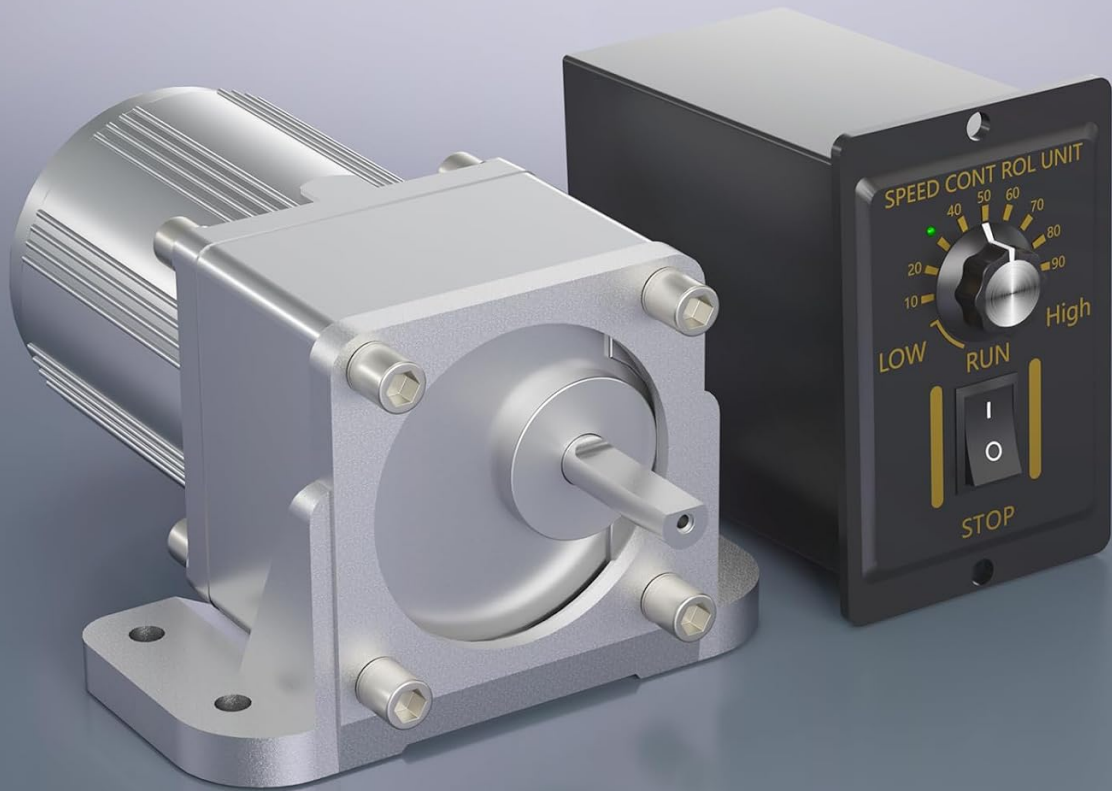


Figure 3.2: Demonstrating high and stable performance.

Diverse

Application

Areas

The motor is versatile used in a variety of sectors including industrial machinery, automation systems, transportation equipment, medical devices etc. It offers robust power and flexible speed control.

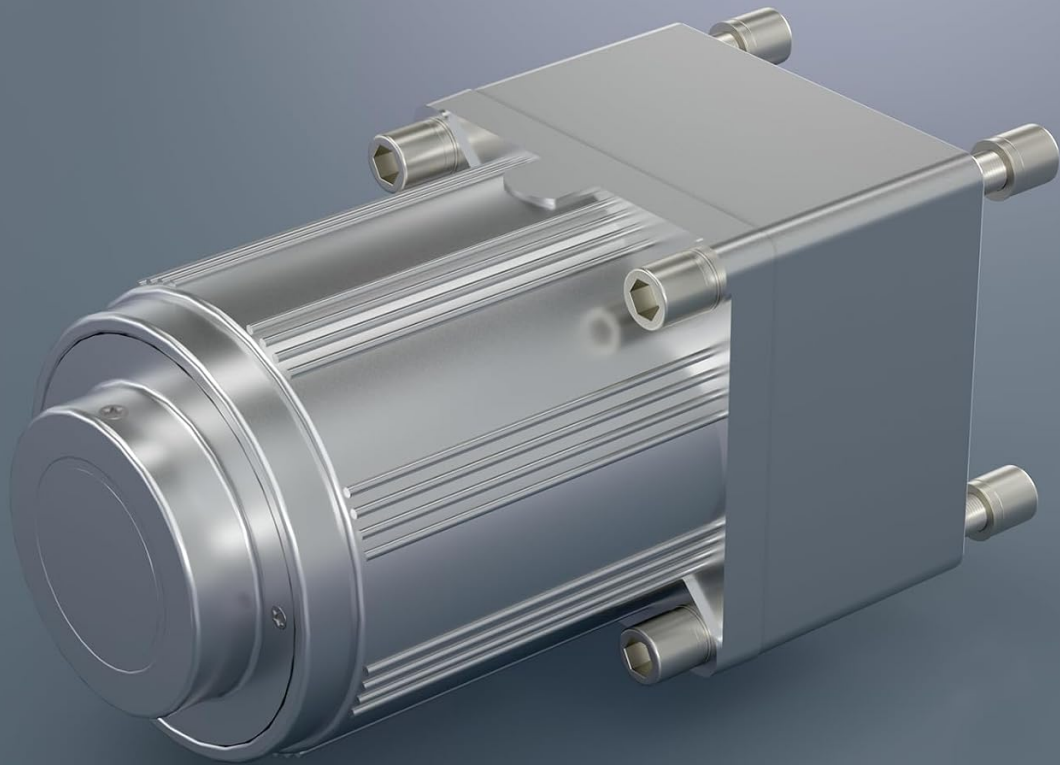


Figure 3.3: Examples of diverse applications.

wide speed range

Reversible design

speed can be adjusted to 35% of full speed under light loads and 70% under heavier loads.



Figure 3.4: Reversible design for flexible speed control.

4. SETUP

Follow these steps to properly set up your Bemonoc AC Motor and speed controller:

1. **Mounting:** Securely attach the motor using the provided bracket to a stable surface. Ensure adequate ventilation around the motor.
2. **Wiring the Speed Controller:** Connect the motor's wiring harness to the speed controller. Refer to the wiring diagram below for correct connections. The speed controller allows for both clockwise (CW) and counter-clockwise (CCW) rotation.
3. **Power Connection:** Plug the power cord into the speed controller and then into a standard 110V AC power outlet.

Forward/Reverse Wiring Instructions

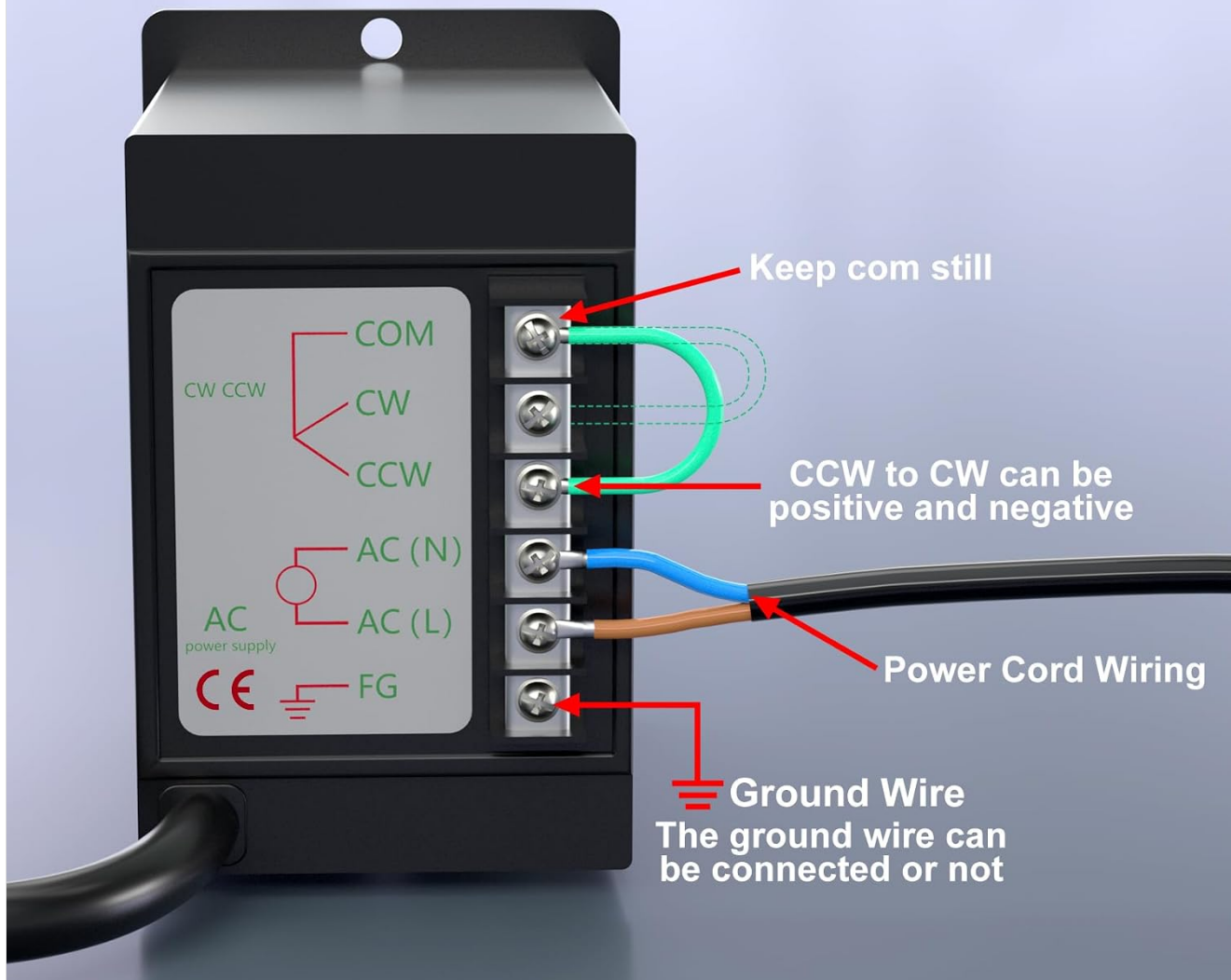


Figure 4.1: Detailed wiring diagram for the speed controller, showing connections for common, CW, CCW, AC power, and ground.

For a visual guide on setup and wiring, please watch the following video:

Your browser does not support the video tag.

Video 4.1: This video demonstrates the product display, wiring connections, and initial power-on sequence for the Bemonoc AC Motor and speed controller.

5. OPERATING INSTRUCTIONS

Once the motor and speed controller are properly set up, you can begin operation:

1. **Power On:** Flip the main switch on the speed controller to the 'RUN' position. The indicator light will illuminate.
2. **Adjusting Speed:** Use the rotary knob on the speed controller to adjust the motor's RPM. Turn the knob towards 'High' for increased speed and towards 'Low' for decreased speed. The motor's speed can be adjusted from 0 to 7.5 RPM.
3. **Changing Direction (CW/CCW):** The speed controller allows for reversible operation. To change the direction

of rotation, ensure the motor is stopped, then adjust the wiring connections for CW or CCW as shown in Figure 4.1. The video in Section 4 also demonstrates the effect of the reverse switch.

4. **Power Off:** To stop the motor, flip the main switch to the 'STOP' position. For complete power disconnection, unplug the power cord from the outlet.

The video in Section 4 also provides a demonstration of the motor's speed adjustment and reversible functionality.

6. MAINTENANCE

Regular maintenance helps ensure the long-term reliability and performance of your AC motor:

- **Cleaning:** Keep the motor and speed controller free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Avoid using liquid cleaners directly on electrical components.
- **Inspection:** Periodically inspect all wiring connections to ensure they are secure. Check for any signs of wear, fraying, or damage to cables and components.
- **Ventilation:** Ensure that the motor's ventilation openings are not obstructed to prevent overheating.
- **Lubrication:** The gearbox is typically pre-lubricated and sealed. Do not attempt to lubricate internal components unless specified by a qualified technician.

7. TROUBLESHOOTING

If you encounter issues with your Bemonoc AC Motor, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor does not run	No power supply; incorrect wiring; switch in 'STOP' position.	Check power connection; verify wiring according to Figure 4.1; ensure switch is in 'RUN' position.
Motor runs but speed cannot be adjusted	Faulty speed controller; motor overload.	Ensure the load is within the motor's rated torque; contact support if controller is suspected faulty.
Motor makes unusual noise or vibrates excessively	Improper mounting; damaged gears; motor overload.	Check mounting for stability; reduce load; contact support if internal damage is suspected.
Motor overheats	Insufficient ventilation; continuous overload.	Ensure clear airflow around the motor; operate within specified load limits.

If the problem persists after attempting these solutions, please contact Bemonoc customer support for further assistance.

8. SPECIFICATIONS

Detailed technical specifications for the Bemonoc High Torque 6W AC Motor:

Specification	Value
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Specification	Value
Product Dimensions	6.13 x 2.41 x 2.41 inches
Weight	3.64 Pounds
Brand	Bemonoc
Model Name	110V One-phase Adjustable Motor
Speed	7.5 RPM (Adjustable)
Voltage	110 Volts
Horsepower / Power	6 Watts
Reduction Ratio	1:180 (180k)
Max Rated Torque	26.6 lb.in
Shaft Diameter	8mm

AC6W-2GN

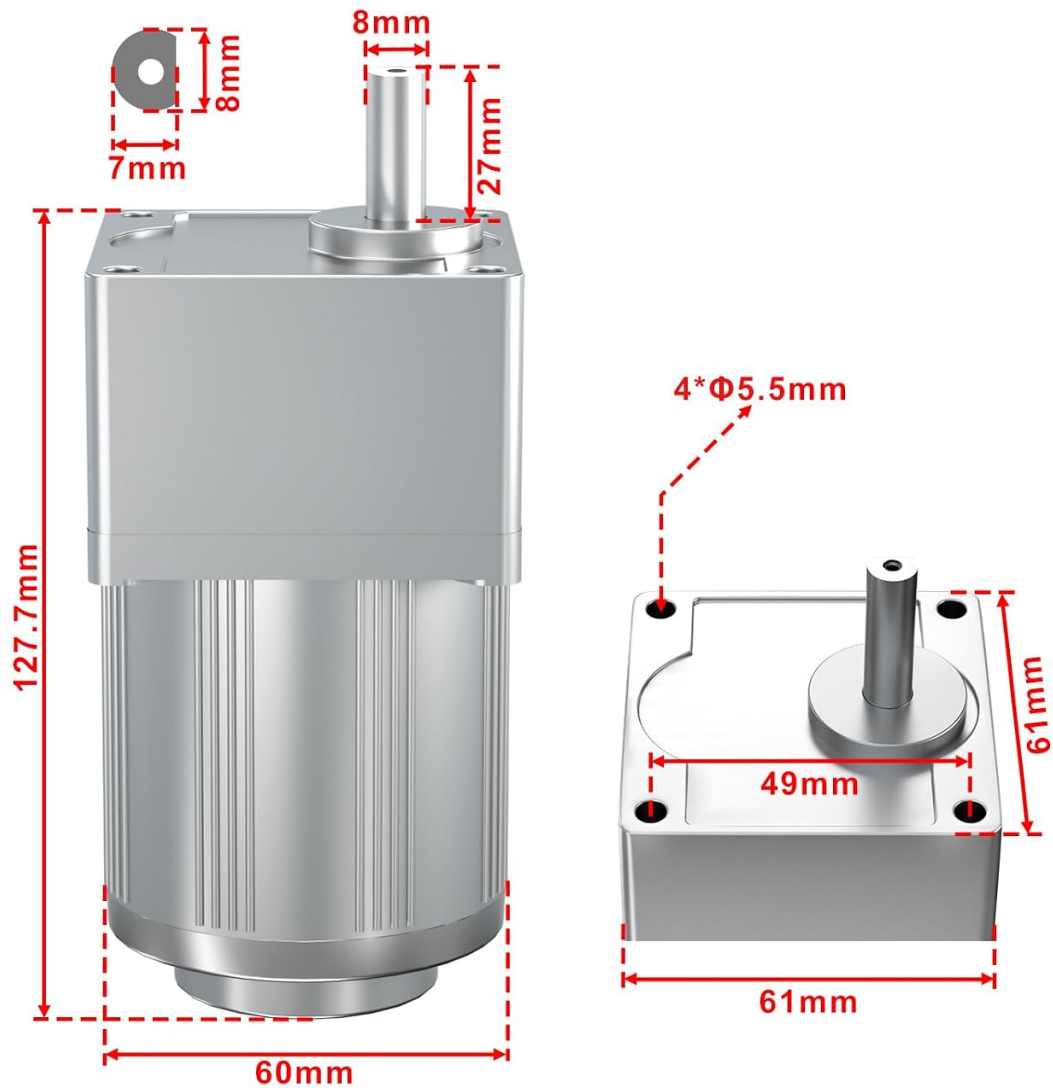


Figure 8.1: Dimensional drawing of the AC motor.

6W Reduction Motor Max Allowable Torque(the Rated Torque)

Product data display

reduction ratio	3	5	7.5	9	10	12.5	18	25	30	40	50	60	75	90	120	150	180
No-load Speed(rpm)	450	280	180	150	135	108	75	54	45	35	27	22	18	15	12	9	7.5
Rated Torque (N.M)	0.1	0.17	0.26	0.31	0.34	0.43	0.53	0.73	0.88	0.17	0.47	1.76	2.2	2.64	3	3	3

Figure 8.2: 6W Reduction Motor Max Allowable Torque table.

Pure Copper Coils

Pure Copper Offers Excellent Conductivity, Oxidation Resistance, And Quick Heat Dissipation, Keeping The Motor Safe And Stable Under High Temperatures And Heavy Loads.



Alloy Gear And Carburizing Process

Alloy Steel High-Precision Helical Gears Reduce Noise And Ensure Smooth Operation, Enhancing Transmission Efficiency And Reducing Wear.



High-precision Rotor

The Motor Features Dall Dearings On Doth Ends, Reducing Friction And Minimizing Heat Generation, Which Effectively Extends Its Lifespan.



Figure 8.3: Internal components highlighting quality materials.



Figure 8.4: Durable aluminum casing.

9. WARRANTY AND SUPPORT

Bemonoc products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, including coverage period and terms, please refer to the product packaging or contact Bemonoc customer service directly. If you require technical assistance, have questions about installation, or need to report an issue, please reach out to our support team through the contact information provided on the official Bemonoc website or your purchase platform.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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