

Bemonoc MY1016Z2

Bemonoc DC 12V 250W Gear Reduction Motor
MY1016Z2 User Manual

INTRODUCTION

This manual provides essential information for the safe and efficient use of your Bemonoc DC 12V 250W Gear Reduction Motor (Model MY1016Z2). Please read these instructions carefully before installation and operation to ensure optimal performance and longevity of the motor. This motor is designed for custom electric vehicles such as scooters, electric bicycles, and other applications requiring low-end torque.

PRODUCT FEATURES

- **Precise Parameters:** Rated Voltage: DC12V; No-Load Speed: 3850rpm; Rated Speed: 3000rpm; Actual Speed: 300 rpm; Rated Current: 26.8A; Pitch: 12.7mm (1/2"); Tooth Thickness: 3mm; Inside Diameter: 11mm; Outside Diameter: 41mm; Efficiency>78%.
- **Motor Rotation Direction:** Easily change shaft rotation direction by reversing power wire polarity.
- **Durable Gear Reduction Motor:** Sturdy construction, durable materials, includes 410 Model Sprocket 9 Tooth. Compatible with 410 Sprocket 13 Tooth, 420/428 Model Sprockets.
- **Superior Features:** High-quality pure copper wire, premium carbon brushes, thick wiring for silent operation and enhanced durability.
- **Wide Application Range:** Suitable for electric bicycles, mopeds, pocket bikes, electric dirt bikes, scooters, e-bikes, ATVs, noodle makers, agricultural machinery, sugarcane machines, chestnut machines, roasters, small lifts, and similar equipment. *Note: Not compatible with Razor Dirt Quad.*

SPECIFICATIONS

Specification	Value
Brand	Bemonoc
Model	MY1016Z2-12V
Rated Voltage	DC 12V
Horsepower	250 Watts

Specification	Value
No-Load Speed	3850 rpm
Rated Speed	3000 rpm
Actual Speed (Gear Reduction)	300 rpm
Rated Current	26.8 A
No-Load Current	2.5 A
Gear Ratio	9.78:1
Sprocket	9 teeth, 410 chain (Pitch: 12.7mm, Tooth thickness: 3mm, Inside diameter: 11mm, Outside diameter: 41mm)
Efficiency	>78%
Product Dimensions	4.25"W x 5"H
Item Weight	2.3 kg
Material Type	Copper, Metal

PACKAGE CONTENTS

- 1 x Bemonoc DC 12V 250W Gear Reduction Motor (MY1016Z2)

SAFETY INFORMATION

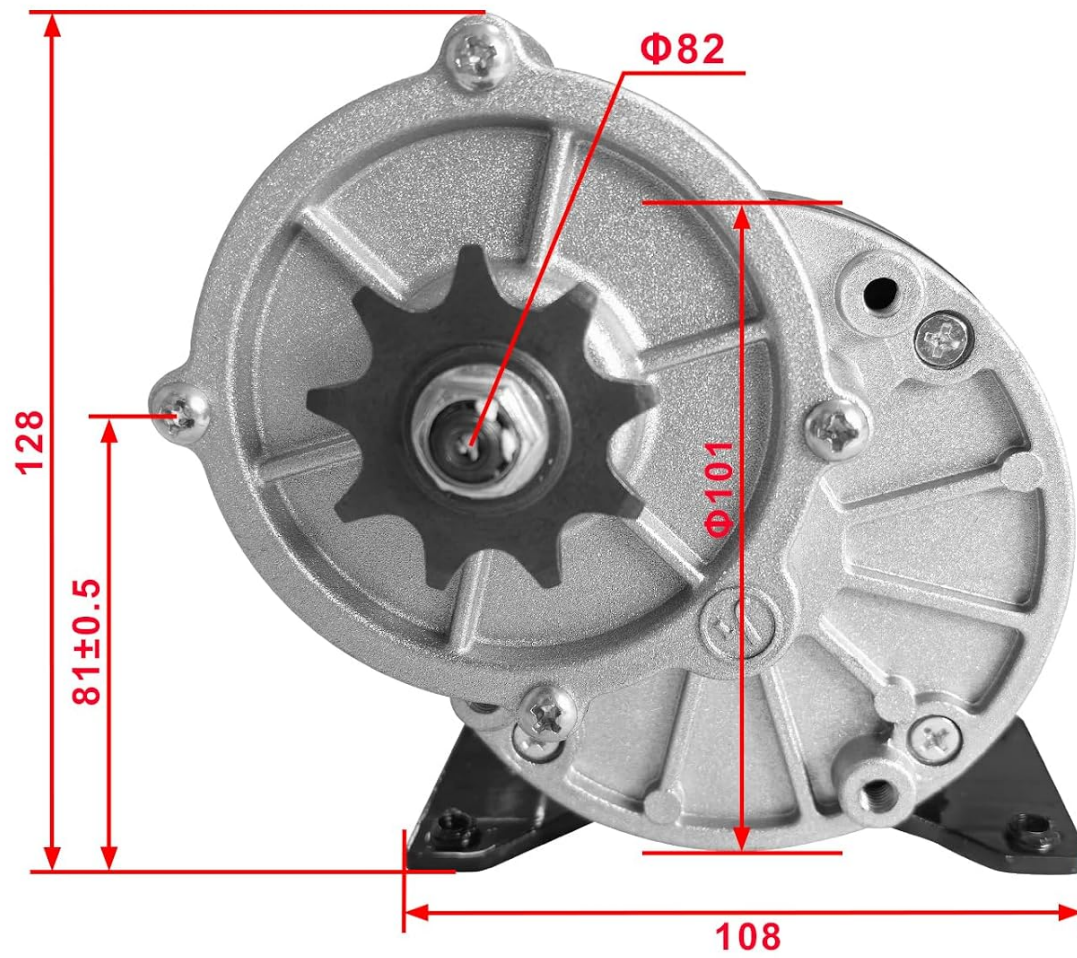
Adhering to safety guidelines is crucial for preventing injury and damage to the motor.

- Always disconnect power before installation, maintenance, or inspection.
- Ensure proper ventilation around the motor to prevent overheating during operation.
- Avoid contact with moving parts, such as the sprocket and chain, while the motor is running.
- Use appropriate wiring gauges and circuit protection (fuses/breakers) suitable for the motor's rated current.
- Do not exceed the motor's rated voltage (DC 12V) or power (250W).
- Keep the motor and associated components out of reach of children.
- If you are unsure about any installation or operation steps, consult a qualified professional.

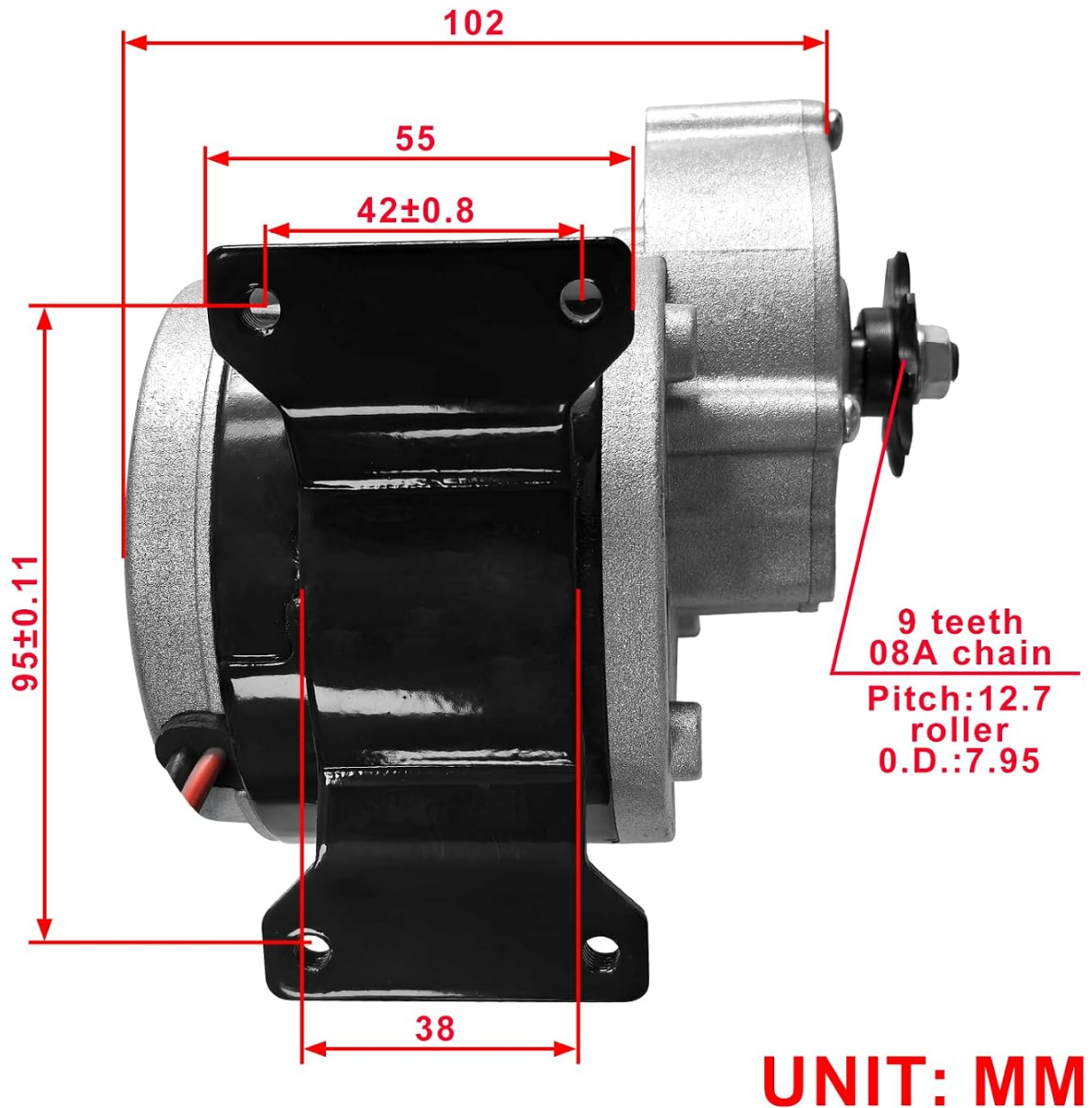
PRODUCT DIMENSIONS

Refer to the following diagrams for detailed dimensions of the motor (all measurements in millimeters).

UNIT: MM



Top-down view with dimensions (Unit: MM)

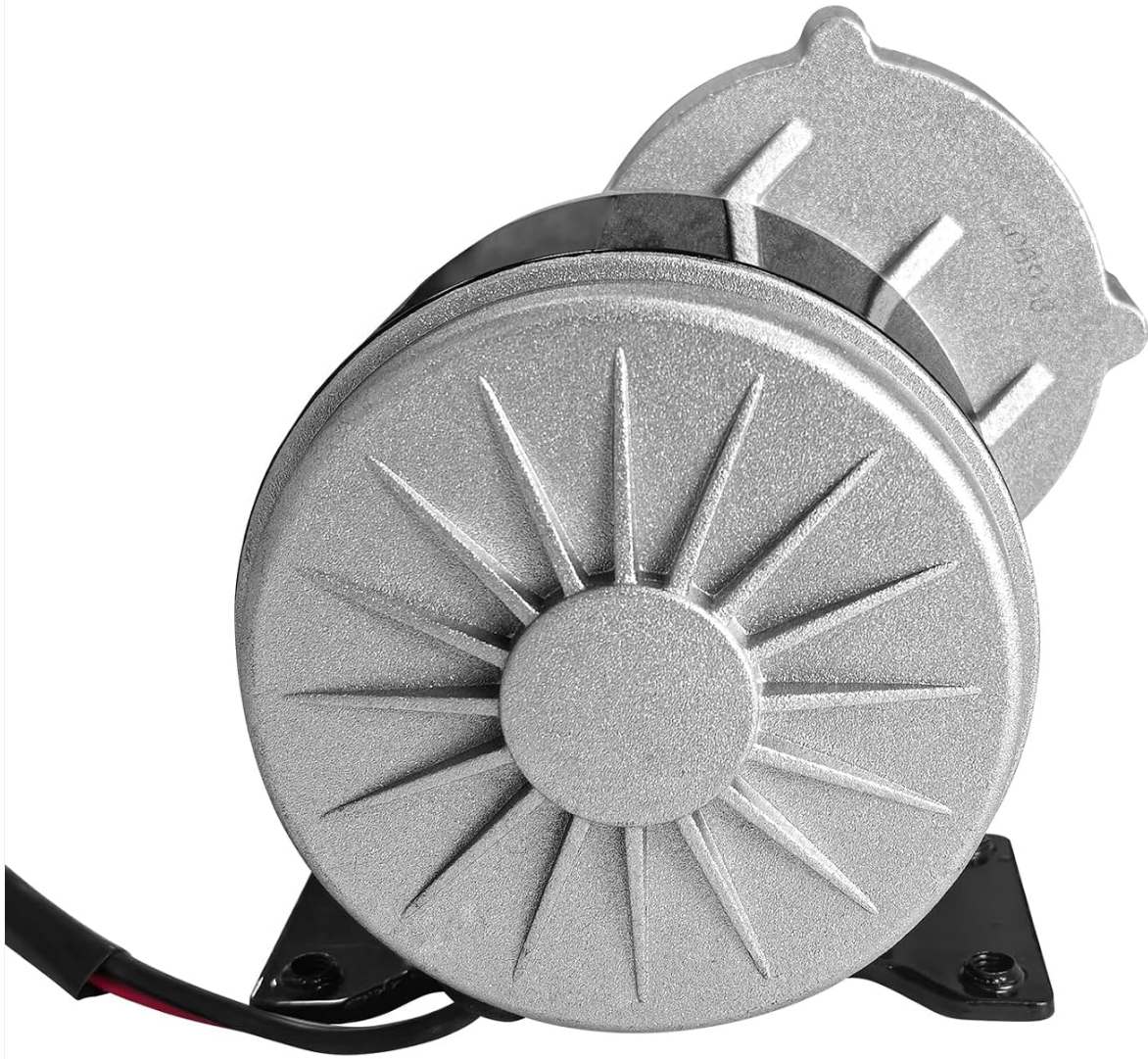


Side view with dimensions (Unit: MM)

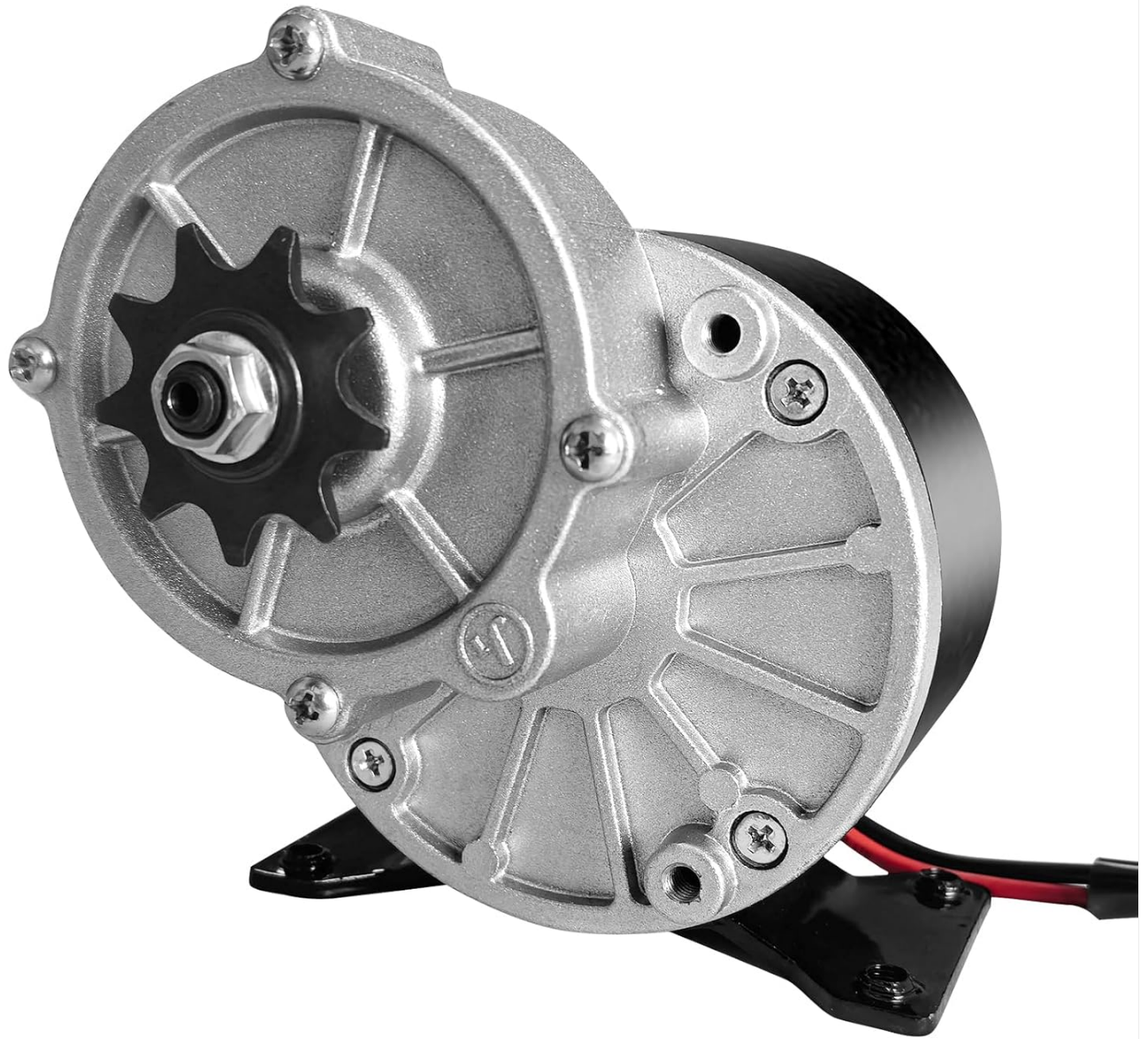
INSTALLATION AND SETUP

Follow these steps for proper installation of your motor:

- Mounting the Motor:** Securely attach the motor to a stable surface using appropriate fasteners. Ensure the mounting points are robust enough to handle the motor's torque and weight.
- Sprocket Installation:** The motor comes with a 9-tooth 410 sprocket. Ensure it is correctly aligned with your chain system. If changing sprockets, ensure compatibility (e.g., 410, 420, 428 models).
- Electrical Connection:** Connect the motor's power wires to a DC 12V power source. Observe correct polarity for desired rotation direction. Reversing the wires will reverse the motor's rotation.
- Testing:** Before full operation, perform a brief test run to confirm correct installation and functionality.



Front view of the motor



Side view of the motor



Angled view of the motor

OPERATING INSTRUCTIONS

Understand how to operate your Bemonoc motor effectively:

- **Power On/Off:** Apply or remove DC 12V power to start or stop the motor.
- **Rotation Direction:** The motor's rotation direction can be changed by reversing the polarity of the power wires. Connect the positive (+) terminal of the power source to one motor wire and the negative (-) terminal to the other. To reverse, swap these connections.
- **Speed Control:** This motor operates at a rated speed of 300 rpm. External speed controllers (not included) may be used for variable speed applications.
- **Load Management:** Avoid overloading the motor beyond its 250W capacity to prevent damage and ensure longevity.

MAINTENANCE

Regular maintenance helps ensure the long life and reliable operation of your motor:

- **Regular Inspection:** Periodically inspect the motor for any signs of wear, loose connections, or damage.
- **Cleaning:** Keep the motor free from dust, dirt, and debris. Use a dry cloth for cleaning. Do not use liquids that could enter the motor housing.
- **Lubrication:** The gear reduction mechanism is typically sealed and does not require user lubrication. Refer to specific manufacturer guidelines if available for long-term maintenance.
- **Sprocket and Chain:** Ensure the sprocket and chain are clean and properly tensioned. Replace worn sprockets or chains as needed.

TROUBLESHOOTING

Refer to this section for common issues and their solutions:

Problem	Possible Cause	Solution
Motor not starting	No power, incorrect wiring, obstruction	Check power supply (12V DC), verify wiring polarity, remove any physical obstructions.
Reduced performance or overheating	Motor overloaded, insufficient ventilation	Reduce the load on the motor, ensure adequate airflow around the motor.
Unusual noise during operation	Loose mounting, worn sprocket/chain, internal issue	Tighten mounting bolts, inspect and replace worn sprocket/chain, if noise persists, professional inspection may be needed.

WARRANTY AND SUPPORT

This product is covered by the manufacturer's standard warranty. For specific warranty details, technical support, or service inquiries, please contact Bemonoc customer service through their official channels or the retailer where the product was purchased.

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.

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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.

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