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LYWS gear-box

LYWS 12V DC 25 RPM Gear-Box Electric Motor User Manual

Introduction

This manual provides essential information for the safe and effective use of your LYWS 12V DC 25 RPM Gear-Box Electric Motor. Please read these instructions carefully before installation and operation to ensure proper function and longevity of the product.

Safety Information

- Always disconnect power before installing, servicing, or cleaning the motor.
- Ensure the power supply voltage matches the motor's rated voltage (12V DC). Using incorrect voltage can damage the motor.
- Avoid touching moving parts during operation to prevent injury.
- Do not expose the motor to excessive moisture, dust, or extreme temperatures.
- Ensure proper ventilation around the motor to prevent overheating.
- Keep children and unauthorized personnel away from the motor during operation.

Package Contents

Verify that all items are present upon unpacking:

- 1 x LYWS 12V DC 25 RPM Gear-Box Electric Motor

Specifications

Detailed technical specifications for the LYWS 12V DC 25 RPM Gear-Box Electric Motor:

Parameter	Value
Voltage	12V DC
No-load Speed	25 RPM

Parameter	Value
No-load Current	0.028 AMP
Rated Speed	18 RPM
Rated Current	0.098 AMP
Rated Torque	2.33 kg.cm
Diameter	32 mm
Shaft Length	23 mm
Shaft Diameter	8 mm
Weight	127 g
Material	Copper

Setup and Installation

Follow these steps for proper installation of your motor:

1. **Mounting:** Securely mount the motor using the integrated mounting brackets. Ensure the motor is stable and free from vibrations. Use appropriate screws or bolts for your application.
2. **Wiring:** Connect the motor's red and white wires to your 12V DC power supply. The red wire typically connects to the positive (+) terminal, and the white wire to the negative (-) terminal. Reversing the polarity will reverse the direction of rotation. Ensure connections are secure and insulated to prevent short circuits.
3. **Load Attachment:** Carefully attach any load or mechanism to the motor shaft. Ensure the load is balanced and does not exceed the motor's rated torque to prevent damage or premature wear.



This image shows the LYWS 12V DC 25 RPM Gear-Box Electric Motor from a front-side angle, highlighting the output shaft, mounting brackets, and red and white power wires.



This image displays the LYWS 12V DC 25 RPM Gear-Box Electric Motor from a slightly different side angle, providing a clearer view of the gear-box housing and the motor's compact design.

Operating Instructions

Once the motor is securely installed and wired:

1. **Power On:** Apply 12V DC power to the motor. The motor should begin to rotate at approximately 25 RPM (no-load) or 18 RPM (rated load).
2. **Direction Control:** To reverse the direction of rotation, simply reverse the polarity of the DC power supply (connect red wire to negative, white wire to positive).
3. **Monitoring:** Observe the motor during initial operation to ensure it runs smoothly without unusual noises or excessive heat.
4. **Load Management:** Avoid applying sudden, heavy loads that exceed the motor's rated torque. Gradual application of load is recommended.

Maintenance

Regular maintenance helps ensure optimal performance and extends the motor's lifespan:

- **Cleaning:** Periodically clean the exterior of the motor to remove dust and debris. Use a soft, dry cloth. Do not use liquids or solvents.
- **Inspection:** Regularly inspect wiring for any signs of wear, fraying, or loose connections. Check mounting points for security.
- **Lubrication:** This motor is typically sealed and does not require user lubrication. Do not attempt to lubricate internal components unless specifically instructed by the manufacturer.
- **Storage:** When not in use for extended periods, store the motor in a dry, clean environment away from direct sunlight and extreme temperatures.

Troubleshooting

If you encounter issues with your motor, refer to the following common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Motor does not turn on	No power, incorrect voltage, loose wiring, motor jammed.	Check power supply, verify 12V DC, secure all connections, ensure shaft is free to rotate.
Motor runs slowly or with reduced torque	Excessive load, insufficient voltage/current from power supply.	Reduce load, check power supply for adequate voltage and current output.
Motor overheats	Continuous excessive load, poor ventilation, internal fault.	Reduce load, ensure adequate airflow around the motor, discontinue use if overheating persists and contact support.
Unusual noise during operation	Misalignment of load, internal wear, foreign object.	Check load alignment, ensure no obstructions. If noise persists, discontinue use.

Warranty

Specific warranty terms for this product may vary. Please retain your proof of purchase and contact the seller or manufacturer directly for detailed warranty information and claims.

Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your LYWS 12V DC 25 RPM Gear-Box Electric Motor, please contact the retailer or manufacturer directly. Provide your product model number (gear-box) and any relevant purchase details when seeking support.

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?

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