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› Bemonoc 25GA370 12V DC Gear Motor User Manual

Bemonoc 25GA370

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Model: 25GA370

1. INTRODUCTION

The Bemonoc 25GA370 is a versatile 12V DC gear motor designed for applications requiring high speed and torque. This motor is suitable for intelligent robots, smart cars, boat models, electric curtains, and other similar projects. This manual provides essential information for the proper setup, operation, and maintenance of your Bemonoc 25GA370 DC gear motor.



Image 1.1: Front view of the Bemonoc 25GA370 12V DC Gear Motor. This image shows the cylindrical motor body with the output shaft extending from one end and electrical terminals from the other.

2. SETUP AND INSTALLATION

Careful installation ensures optimal performance and longevity of your motor. Follow these guidelines for proper setup:

1. **Mounting:** Securely mount the motor using appropriate fasteners to prevent vibration and movement during operation. Ensure the mounting surface is stable and flat.
2. **Wiring:** Connect the motor to a 12V DC power supply. Observe correct polarity for desired rotation direction. The motor has two terminals for power input.
3. **Shaft Connection:** Connect your load to the output shaft. Ensure the connection is firm and aligned to avoid undue stress on the motor shaft and bearings. The motor features a tail back shaft for encoder integration, if required.

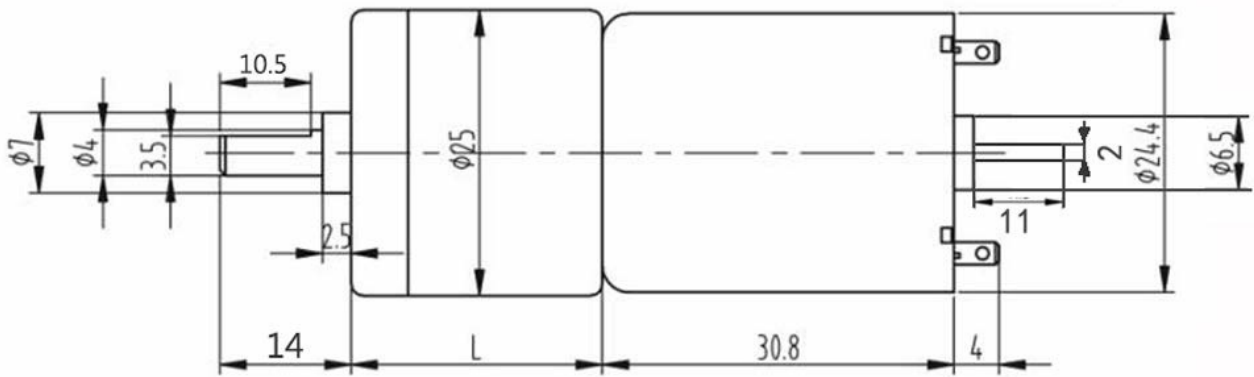


Image 2.1: Detailed dimensional drawing of the Bemonoc 25GA370 12V DC Gear Motor. This diagram provides critical measurements for mounting and integration, including shaft diameter, body length, and mounting hole positions.

3. OPERATING INSTRUCTIONS

The Bemonoc 25GA370 motor is designed for continuous operation within its specified parameters. Adhere to the following for safe and efficient use:

- **Power Supply:** Operate the motor with a stable 12V DC power source.
- **Load Management:** Avoid exceeding the rated torque of 0.25kg.cm to prevent motor damage or premature wear.
- **Temperature:** Ensure the motor operates within a suitable temperature range. Excessive heat can reduce motor lifespan.
- **Encoder Use:** If utilizing the tail back shaft for an encoder, ensure proper alignment and connection according to the encoder manufacturer's instructions.

型号 MODEL	电压 VOLTAGE 额定 RATED Volt	空载 NO-LOAD		负载 AT MAXIMUM EFFICIENCY				堵转STALL		减速比 REDUCER Ratio	减速箱长度 REDCER LENTH mm
		转速 SPEED r/min	电流 CURRENT A	转速 SPEED r/min	电流 CURRENT A	转矩 TORQUE Kg · cm	功率 POWER W	电流 CURRENT A	转矩 TORQUE Kg · cm		
TS-25GA370	12V	10	0.12	8	0.55	10.0	2.5	2.0	/	1:478	27
		15	0.12	12	0.55	8.0	2.5	2.0	/	1:362	27
		25	0.12	20	0.55	5.5	2.5	2.0	/	1:217	25
		35	0.12	28	0.55	4.5	2.5	2.0	13.5	1:165	25
		60	0.15	45	0.65	2.8	2.5	2.0	11.6	1:98	23
		80	0.15	80	0.65	1.6	2.5	2.0	5.2	1:75	23
		130	0.15	100	0.65	1.2	2.5	2.0	4.8	1:45	21
		150	0.15	120	0.65	0.95	2.5	2.0	3.5	1:34	21
		300	0.15	240	0.65	0.50	2.5	2.0	2.5	1:20	19
		600	0.15	480	0.65	0.25	2.5	2.0	1.0	1:10	19
	24V	10	0.10	8	0.40	10.0	2.5	2.0	/	1:478	27
		15	0.10	12	0.40	8.0	2.5	2.0	/	1:362	27
		25	0.10	20	0.40	5.8	2.5	2.0	/	1:217	25
		35	0.10	28	0.40	5.0	2.5	2.0	14.0	1:165	25
		60	0.11	45	0.55	2.5	2.5	2.0	11.5	1:98	23
		80	0.12	80	0.55	1.5	2.5	2.0	5.0	1:75	23
		130	0.12	100	0.55	1.2	2.5	2.0	4.8	1:45	21
		150	0.12	120	0.55	0.85	2.5	2.0	3.5	1:34	21
		300	0.12	240	0.55	0.50	2.5	2.0	2.5	1:20	19
		600	0.12	480	0.55	0.25	2.5	2.0	1.0	1:10	19

Image 3.1: Performance data table for the Bemonoc 25GA370 DC Gear Motor. This table details various operational characteristics such as rated voltage, no-load speed, current, torque, and power under different conditions.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and reliable performance of your motor. While the Bemonoc 25GA370 is designed for durability, consider the following:

- **Cleanliness:** Keep the motor free from dust, dirt, and debris, which can impede cooling and affect internal components.
- **Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion.
- **Load Inspection:** Inspect the connected load for any issues that might cause excessive strain on the motor.
- **Lubrication:** The gear mechanism is typically pre-lubricated. Avoid disassembling the motor for lubrication unless specifically instructed by the manufacturer.

5. TROUBLESHOOTING

If you encounter issues with your Bemonoc 25GA370 motor, refer to the following common troubleshooting steps:

- **Motor Not Running:**
 - Check the power supply: Ensure it is providing the correct 12V DC and sufficient current.
 - Verify wiring: Confirm all connections are secure and polarity is correct.
 - Inspect for obstructions: Ensure nothing is physically blocking the motor shaft or gears.
- **Low Performance (Speed/Torque):**
 - Check the load: The motor may be overloaded. Reduce the load if it exceeds the rated torque.
 - Power supply issues: Insufficient voltage or current from the power supply can lead to reduced performance.
 - Internal friction: Excessive friction in the connected mechanism can reduce effective output.
- **Unusual Noise or Heat:**
 - Overload: Operating under excessive load can cause increased noise and heat.
 - Misalignment: Poor alignment of the motor shaft with the load can cause friction and noise.
 - Internal damage: If the motor makes grinding noises, it may indicate internal gear damage. Discontinue use and contact support.

If these steps do not resolve the issue, please contact Bemonoc customer support.

6. SPECIFICATIONS

The following table details the key specifications of the Bemonoc 25GA370 12V DC Gear Motor:

Feature	Specification
Brand	Bemonoc
Model Name	25GA370
Rated Voltage	12V DC
No-Load Speed	600 RPM
No-Load Current	≤ 0.65A
Rated Torque	0.25 kg.cm
Horsepower	8 Watts
Material Type	Metal

7. WARRANTY AND SUPPORT

Bemonoc is committed to providing high-quality products and excellent customer service. Your Bemonoc 25GA370 DC Gear Motor comes with a quality guarantee.

For any quality problems or technical assistance, please contact us via email. We are dedicated to providing a satisfactory solution and continuously improving our product quality and customer service.

Please trust the Bemonoc brand and allow us the opportunity to assist you.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question