

Bodine N3695

Bodine Electric N3695 Right Angle DC Gearmotor User Manual

Model: N3695

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Bodine Electric N3695 Right Angle DC Gearmotor. Please read this manual thoroughly before attempting to install or operate the gearmotor. Retain this manual for future reference.



An image showing the Bodine Electric N3695 Right Angle DC Gearmotor, a compact black unit with a finned housing and a protruding shaft, designed for industrial applications.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury to personnel and damage to the equipment.

- Ensure power is disconnected before performing any installation, maintenance, or troubleshooting.
- Only qualified personnel should install, operate, and maintain this equipment.
- Protect the gearmotor from moisture, dust, and extreme temperatures.
- Do not exceed the specified voltage and current ratings.
- Ensure proper grounding to prevent electrical shock.
- Keep hands and clothing clear of rotating parts during operation.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the gearmotor from its packaging. Inspect for any signs of shipping damage. Report any damage to the carrier immediately.

3.2 Mounting

The N3695 gearmotor can be mounted in various orientations. Ensure the mounting surface is flat, rigid, and capable of supporting the gearmotor's weight and operational forces.

1. Select a mounting location that allows for adequate ventilation and access for maintenance.
2. Secure the gearmotor using appropriate bolts and washers through the mounting holes. Ensure all fasteners are tightened to the manufacturer's recommended torque specifications.
3. Verify that the shaft is properly aligned with the driven load to prevent undue stress on the bearings.

3.3 Electrical Connections

Refer to the wiring diagram provided with your specific unit for correct electrical connections. Ensure all connections are secure and insulated.

- Connect the DC power supply to the motor terminals, observing polarity.
- Ensure the power supply voltage matches the gearmotor's rated voltage (24VDC).
- Install appropriate overcurrent protection devices.

4. OPERATING

4.1 Initial Start-up

Before applying power, double-check all electrical connections and mounting security.

1. Apply power gradually if possible, or directly if not.
2. Observe the gearmotor for any unusual noises, vibrations, or excessive heat during the first few minutes of operation.
3. If any anomalies are detected, immediately disconnect power and investigate the cause.

4.2 Normal Operation

The N3695 gearmotor is designed for continuous duty within its specified ratings. Monitor the gearmotor periodically for optimal performance.

- Ensure the ambient temperature remains within the specified operating range.
- Avoid overloading the gearmotor beyond its rated torque and speed.

5. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Bodine gearmotor. Always disconnect power before performing any maintenance.

5.1 Routine Checks

- **Monthly:** Inspect for loose mounting bolts, worn wiring insulation, and unusual noise or vibration.
- **Quarterly:** Check for excessive heat buildup. Ensure ventilation fins are clear of debris.
- **Annually:** Verify electrical connections are tight and free from corrosion.

5.2 Cleaning

Keep the exterior of the gearmotor clean. Use a dry, soft cloth to wipe away dust and dirt. Do not use solvents or abrasive cleaners.

6. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed, contact Bodine Electric technical support.

Problem	Possible Cause	Solution
Motor does not start	No power; Incorrect wiring; Overload	Check power supply; Verify wiring; Reduce load
Excessive noise/vibration	Misalignment; Loose mounting; Worn bearings	Check alignment; Tighten mounting bolts; Contact service
Overheating	Overload; Insufficient ventilation; High ambient temperature	Reduce load; Clear ventilation; Improve cooling

7. SPECIFICATIONS

Key specifications for the Bodine Electric N3695 Right Angle DC Gearmotor:

Feature	Value
Model Number	N3695
Type	Right Angle DC Gearmotor (Brushless)
Horsepower (HP)	0.25 HP
Voltage	24VDC
Rated Speed	500 RPM
Item Weight	13.8 Pounds
Manufacturer	Bodine

8. WARRANTY AND SUPPORT

Bodine Electric Company warrants its products against defects in material and workmanship for a specified period from the date of purchase. For detailed warranty terms and conditions, please refer to the official Bodine Electric website or contact their customer service.



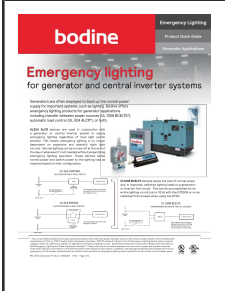
For technical assistance, parts, or service, please contact an authorized Bodine Electric distributor or visit the official Bodine Electric website for contact information.

Official Website: www.bodine-electric.com

Customer Support: Refer to website for regional contact details.

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Related Documents

	<p>Bodine PRT00142 ELI-S-250 Inverter PCB Replacement</p> <p>Technical specifications for the Bodine PRT00142, a replacement Printed Circuit Board (PCB) sub-assembly with mounting tray for the ELI-S-250 Bodine Inverter. Includes usage guidelines and warranty information.</p>
	<p>Bodine BUA2 FirstLink Emergency Lighting Unit: Specifications, Features, and Performance</p> <p>Comprehensive details on the Bodine BUA2 FirstLink Emergency Lighting Unit, covering its specifications, benefits, operation, installation, performance data, and ordering information. Features automated testing and FirstLink connectivity.</p>
	<p>Bodine Emergency Lighting for Generator and Central Inverter Systems - Product Quick Guide</p> <p>A quick guide to Bodine emergency lighting products designed for generator and central inverter systems, including UL 1008 BCELTS and UL 924 ALCR devices for reliable power backup.</p>



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For 2D/3D CAD drawings and distributor locations, go to www.bodine-electric.com

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