

# 86mm Brushless DC Gear Motor

This 86mm brushless DC gear motor features advantages such as high power density, quick reaction, and long life. It is widely used in CNC machines, home appliances, and industrial automation.



## ADDITIONAL IMAGES



## Product Overview

### High-Performance 86mm Brushless DC Gear Motor

This 86mm series brushless DC motor is designed for high-performance motion control, offering high power density, a small moment of inertia, and quick reaction times. Built with permanent magnet construction, it provides high efficiency and energy savings compared to traditional AC or brushed DC motors. Its brushless design eliminates sparks and reduces noise, making it ideal for demanding environments like CNC machinery, medical equipment, and industrial automation.

## Performance Highlights

### Performance Metrics

**3000 RPM**

Max Speed

**660 W**

Max Power

**2.1 N·m**

Max Torque

**48 VDC**

Voltage

## Technical Specifications

Model Specifications Table

Model Number	Power (W)	Speed (RPM)	Torque (N·m)	Length (mm)	Weight (Kg)
86-BLB0D003104RN-01	37	1000	0.35	58	1.5
86-BLB0D011304RN-01	110	3000	0.35	58	1.5
86-BLB1D007104RN-01	73	1000	0.7	71	1.9
86-BLB1D022304RN-01	220	3000	0.7	71	1.9
86-BLB2D014104RN-01	147	1000	1.4	98	2.6
86-BLB2D044304RN-01	440	3000	1.4	98	2.6
86-BLB3D022104RN-01	220	1000	2.1	125	4
86-BLB3D066304RN-01	660	3000	2.1	125	4

## Construction & Features

### Protection Class

IP40 (Standard) • IP65 (Optional)

### Insulation Class

- Class B
- Class F

### Motor Type

Brushless DC Gear Motor

### Construction

Permanent Magnet

### Protection Features

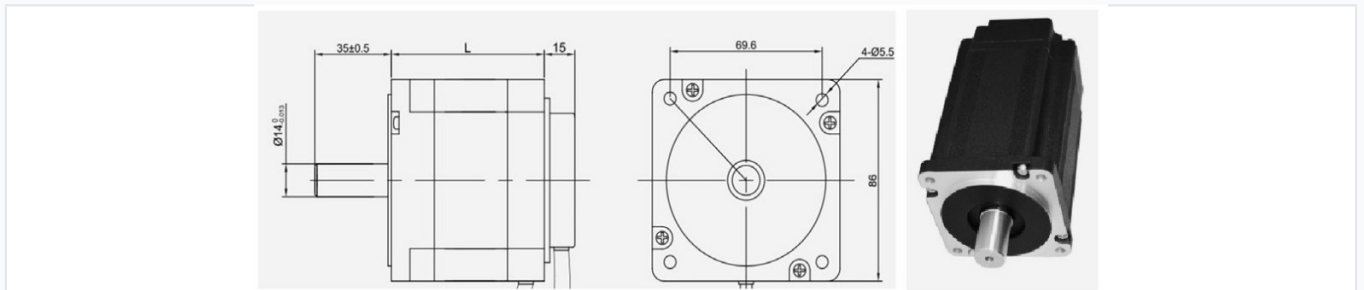
Waterproof, Overvoltage Protection, Undervoltage Protection, Overcurrent Protection, Overheating Protection, Lack of Phase Protection

## Applications

### Recommended Applications

CNC Machine Tools, Electric Bicycles, Home Appliances, Automotive, Boats, Industrial Control, Medical Field

## Physical Dimensions



Dimensional diagram showing the 86mm flange, 14mm shaft diameter, and mounting hole configuration.

### Flange Size

86 mm

### Shaft Diameter

14 mm

## Compliance

### Certifications

CCC • CE