Brushless DC Gear Motor GM37BD

Contact Us

Request a Quote
Name
WhatsApp
CAPTCHA
Submit

Brushless DC Gear Motor GM37BD

Main Applications

• Compact automation equipment and intelligent actuators

• Robotics modules and positioning mechanisms • [illegible] office equipment transmission modules • Valves, locks, latches, and controlled opening/closing mechanisms • Medical-assist equipment and precision device subassemblies • Other OEM motion-control projects requiring a compact 24V brushless DC gear motor

FAQ

Q1. What is the standard electrical configuration of GM37BD-00XX?

The reference configuration is 24 VDC with a built-in brushless driver and a 6-pin interface for VCC, CW/CCW, NC, GND, FG, and PWM.

Q2. What is the standard speed and torque for this model?

For the supplied 1:30 ratio version, the reference free-load speed is 200±10% RPM, rated speed is 135±10% RPM, rated torque is 3 kgf·cm, and minimum stall torque is 10 kgf·cm.

Q3. Does this brushless gear motor support speed control?

Yes. The supplied drawing identifies a PWM input and FG feedback output, allowing system-level speed control and monitoring when matched with a suitable controller.

Q4. Can the output shaft and cable be customized?

Yes. Output shaft geometry, thread, wire length, connector form, and cable outlet direction can be customized after engineering evaluation.

Q5. Is this model suitable for continuous-duty OEM applications?

The brushl[illegible]uction is designed for applications that benefit from low

maintenance and stable long-cycle operation. Final suitability should still be confirmed against real load, duty cycle, and environment.

Q6. What information should I provide for selection?

Please provide target speed, torque, voltage, installation dimensions, control requirements, duty cycle, and environment so the most appropriate GM37BD brushless DC gear motor configuration can be evaluated.

Contact Us

Share:

Inquire Now

Next Product

Product Overview

The GM37BD is a brushless DC gear motor with long service life, low noise, high efficiency, and precise speed control. It is customized for robots, AGVs, robotic lawn mowers, medical equipment, conveyors, and smart appliances.

Model Information

Item	Specification
Series	GM37BD Series
Model	GM37BD-00XX
Motor Type	Brushless DC Motor
Product Type	Brushless DC Gear Motor with Built-in Driver
Reference Gear Ratio	1:30
Rated Voltage	24 VDC
Reference Rated Output	Approx. 4.2 W at rated point
Noise	62 dB Max (L=300 mm)
Control Interface	VCC / CW-CCW / NC / GND / FG / PWM

Contact Us

Technical Data

Parameter	Specification
Rated Voltage	24 VDC
Driving Motor Model	BL3521
Driving Motor Free-load Speed	6000 ±10% RPM
Gear Ratio	1:30
Free-load Speed	200 ±10% RPM
Free-load Current	250 mA Max
Rated Speed	135 ±10% RPM
Rated Current	600 mA Max
Rated Torque	3 kgf·cm (≈294 mN·m)
Stall Current	2000 mA Max
Stall Torque	10 kgf·cm Min (≈981 mN·m)
Stall Allowed	No
Driver	Built-in
Signal Interface	6-pin: VCC / CW-CCW / NC / GND / FG / PWM

Technical Data

Voltage	Ratio	No-load Speed	No-load Current	Rated Speed	Rated Current	Rated Torque	App Rat Tor
24 VDC	1:30	200 RPM	250 mA Max	135 RPM	600 mA Max	3 kgf·cm	294 mN

Technical Data

Control Item	Specification
Driver Configuration	Built-in driver brushless motor
Power Input	24 VDC (Red wire = VCC)
Ground	Black wire = GND
Direction Control	White wire = CW/CCW
Speed Feedback	Yellow wire = FG

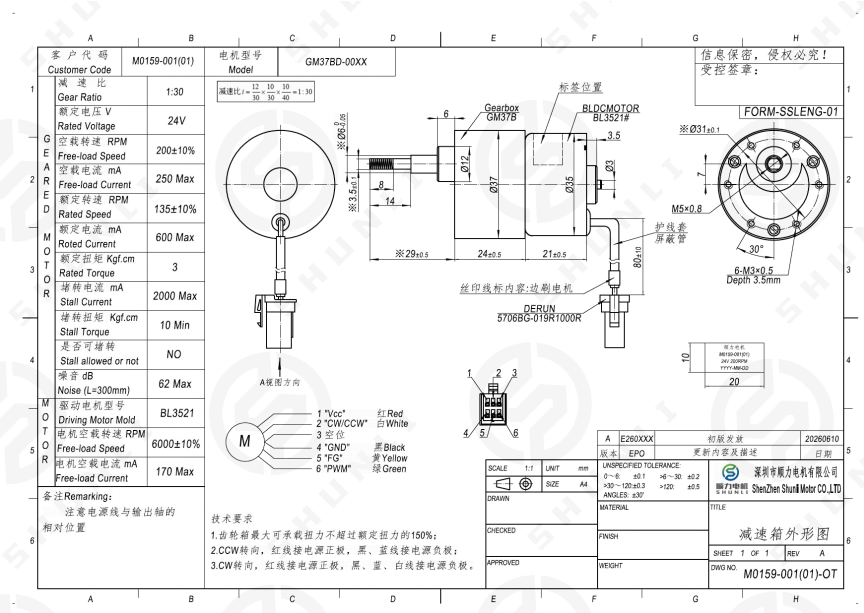
Request a Quote

PWM Input	Green wire = PWM
Reserved / NC	Pin 3 = NC

Technical Data

Mechanical Item	Specification
Gearbox Outside Diameter	Ø37 mm
Motor Outside Diameter	Ø35 mm
Mounting Circle	Ø31 ±0.1 mm
Mounting Threads	6 × M3 × 0.5, depth 3.5 mm
Output Shaft Diameter	Ø6 mm
Output Shaft Thread	M5 × 0.8
Gearbox Length	24 ±0.5 mm
Motor Section Length	21 ±0.5 mm
Lead Wire Length	80 ±10 mm
Connector	6-pin harness connector

Dimension Drawing



Main Applications

Request a Quote

SHUN LI 顺力

Contact Us



Industrial Automation

Industrial valves, dampers, gates, low-speed rotary platforms, adjustment mechanisms, and compact actuators requiring right-angle transmission.

Customization Range

- Electrical Configuration
- • Rated voltage and winding configuration
- • Motor speed and target output speed
- • Control signal definition and connector interface
- • Direction-control logic and PWM requirement
- Gearbox & Performance
- • Gear ratio selection
- • Output torque target and duty cycle
- • Noise target and backlash expectation
- • Gear material and lifetime requirement
- Mechanical Interface
- • Output shaft diameter, flats, thread, or custom machining
- • Mounting pattern and face-plate adaptation
- • Cable outlet direction and harness length
- • Special environment or enclosure request
- Control & Feedback
- • PWM speed-control range
- • FG feedback requirement
- • CW/CCW switching logic
- • Controller matching requirement
- Reliability Validation
- • Duty cycle and service life target

Request a Quote

- Load spectrum and peak-load condition
- Noise/vibration target
- Temperature or application environment

Information Required for Custom Evaluation

- Target output speed, rated torque, and peak torque
- Input voltage, control mode, and motion direction requirement
- Installation size, output shaft drawing, and mounting constraints
- Required cable length, connector type, and interface defini
- Duty cycle, lifetime target, and expected operating environment
- Noise requirement and certification or reliability expectations

Contact Us

FAQ

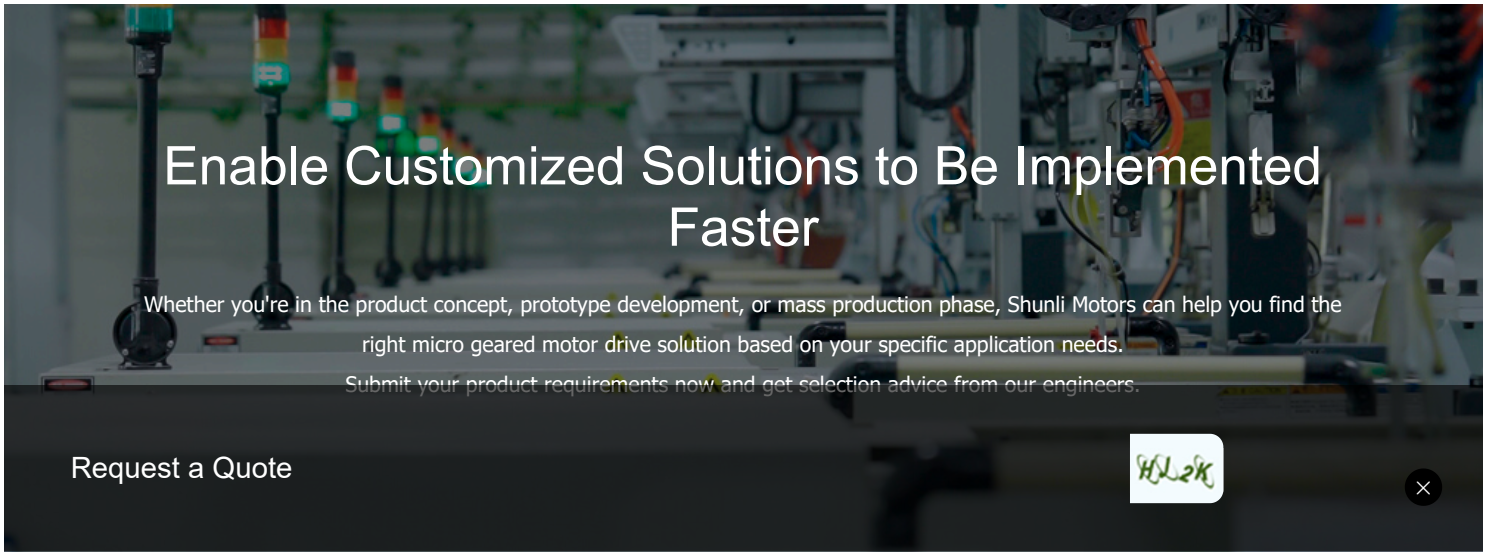
Q1: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

Yes. Provide the product structure, space, load, and motion requirements, and our engineering team can assist with parameter conversion and solution evaluation.

Q2: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

Q3: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

Q4: What types of projects are best suited to the GM58EM DC Worm Gear Motor?



Enable Customized Solutions to Be Implemented Faster

Whether you're in the product concept, prototype development, or mass production phase, Shunli Motors can help you find the right micro geared motor drive solution based on your specific application needs.
Submit your product requirements now and get selection advice from our engineers.

Request a Quote

Related Products

Contact Us



Spur gear motor GM16

We offer standard products in high, medium, and low power ranges,...

View More



Spur gear motor GM16

We offer standard products in high, medium, and low power ranges,...

View More



Spur gear motor GM16

We offer standard products in high, medium, and low power ranges,...

View More

Contact Us

Tel.: +86 755 2912 4182
+86 189 2746 6971
E-mail: shunlimotor@szslmotor.com
WhatsApp: +86 18927467041

Get in Touch

* E-mail

* Message

Submit

Copyright @ Shenzhen Shunli Motor Co., Ltd. All Rights Reserved | Powered by Reanod

Request a Quote