Brushless DC Gear Motor BL4260G

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Main Applications

AI Robotics: Compact joints, grippers, pan-tilt mechanisms, service-robot modules, inspection mechanisms, and low-power g electronic speed control.

Industrial Automation: Small conveyors, valves, positioning mechanisms, feeders, automatic fixtures, and compact drive modules. Smart Home: Motorized windows, curtains, valves, furniture adjustments, appliance mechanisms, and smart-device actuators. Medical Equipment: Compact adjustment mechanisms, diagnostic equipment, laboratory automation, and controlled low-power actuators, subject to system-level validation. Commercial Equipment: Vending, dispensing, coffee-machine mechanisms, self-service terminals, and office automation. Custom OEM Equipment: Space-limited mechanisms requiring a compact 24 V brushless DC gear motor with a built-in driver and ratio-specific output speed; external control-interface details should be confirmed during engineering evaluation.

FAQ

Q1. What information is required to select the BL4260G brushless DC gear motor?

Please provide the operating voltage, target output speed, continuous and peak torque, installation space, output shaft requirements, duty cycle, control method, feedback requirements, ambient temperature, target lifetime, and annual quantity. The gear ratio should be selected together with the required speed and load rather than from ratio alone.

Q2. Does this BLDC gear motor include a driver?

Yes. The supplied product data identifies the BL4260 shless DC gear motor with a built-in driver. However, the

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external control-signal definitions, logic levels, connector pinout, a functions are not specified in the supplied material and should be confirmed before controller integration.

Q3. What gear ratios and voltage configurations are shown for the BL4260G?

The supplied reference table covers 24 VDC configurations with motor reference speeds of 4,590 RPM and 4,260 RPM. Gear ratios shown are 1:6, 1:17, 1:36, 1:75, 1:104, 1:144, 1:216, 1:451, 1:864, and 1:1410. Final ratio availability should be confirmed for the required output speed and load.

Q4. What control interface is available for the BL4260G?

The supplied data confirms a built-in driver, but it does not define PWM, direction, speed-feedback, connector pinout, or logic-level specifications. These interface details should be confirmed during engineering evaluation before the customer controller is finalized.

Q5. Can the shaft, ratio, wiring, or connector be customized?

Customization can be evaluated based on the application. Please provide the required shaft drawing, installation dimensions, target speed and torque, wire length, connector specification, control interface, duty cycle, and annual demand so the engineering team can confirm feasibility.

Q6. How do I place an order with Shunli Motor?

Send us your application requirements or motor specifications. Our engineering team will evaluate the voltage, speed, torque, ratio, control interface, and installation conditions, then confirm the technical solution and sample. After sample approval, mass production can be arranged according to the confirmed specification and delivery requirements.

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Product Overview

BL4260G Series The BL4260G brushless DC gear motor is a compact 36 mm-class BLDC geared drive with a built-in driver, developed for OEM equipment requiring electronic commutation, a broad reduction range, and stable geared output. The supplied 24 VDC reference configurations use motor speeds of 4,590 RPM and 4,260 RPM, with gear ratios from 1:6 to 1:1410, rated output power from 10 W to 40 W, and a product weight of 400 g. Across the supplied ratio combinations, no-load output speed rang and loaded speed ranges from 2 to 583 RPM. The cylindrical gearbox, 8 mm output shaft, and compact BLDC drive format make the BL4260G suitable for robotics, industrial automation, smart equipment, valves, actuators, and other OEM motion-control systems. Final selection should be validated against output speed, load torque, duty cycle, temperature rise, control interface, shaft load, and installation requirements.

Model Information

Series	BL4260G
Motor Type	Brushless DC Motor (BLDC)
Product Type	Brushless DC Gear Motor with Built-in Driver
Reference Performance Table	BL4260G supplied performance table
Rated Output Power	10 W–40 W
Weight	400 g
Control Interface	Built-in driver; external control interface not specified in supplied data

Main Parameters

Technical Data

Parameter	Specification
Rated Voltage	24 VDC
Motor Reference Speed	4,590 RPM / 4,260 RPM
Gear Ratio Options	1:6 / 1:17 / 1:36 / 1:75 / 1:104 / 1:144 / 1:216 / 1:451 / 1:864 / 1:1410
Output Power	10 W–40 W

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Weight	400 g
Driver	Built-in
Control Signals	Not specified in supplied data
Output Speed Range	No-load: 3–765 RPM; loaded: 2–583 RPM

Technical Data

Ratio	6	17	36	75			21
No-load speed (RPM)	765	270	127	61	44	32	21
Loaded speed (RPM)	583	206	97	46	33	24	
Source torque value*	0.21	0.53	1.13	2.02	2.8	3.88	

Technical Data

Ratio	6	17	36	75	104	144	21
No-load speed (RPM)	710	250	118	57	41	29	20
Loaded speed (RPM)	545	192	91	44	31	23	25
Source torque value*	0.45	1.13	1.96	3.92	3.92	3.92	4.

Technical Data

Driver Configuration	Built-in driver
PWM Input	Not specified in supplied data
Ground	Not specified in supplied data
Direction Control	Not specified in supplied data
Speed Feedback	Not specified in supplied data

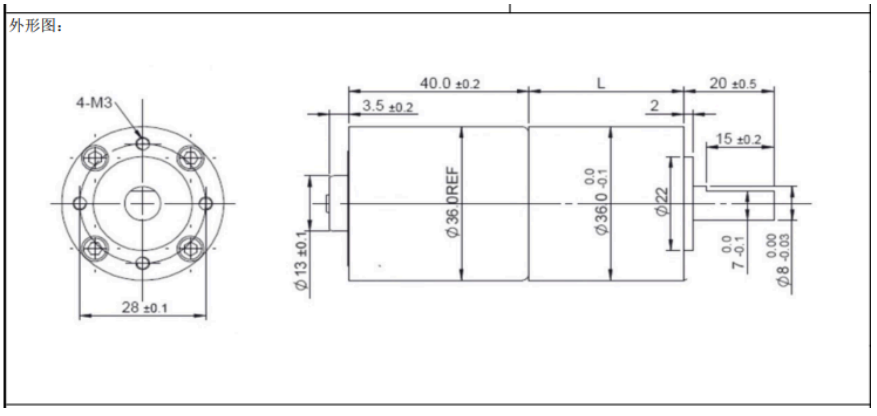
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Power Input	24 VDC reference versions; wiring definition to be confirmed

Technical Data

Motor Outside Diameter	Ø38 mm REF
Gearbox Outside Diameter	Ø36 mm (0 / -0.1)
Mounting Interface	4 × M3; 28 ±0.1 mm mounting pattern shown in drawing
Output Shaft Diameter	Ø8 mm (0 / -0.03)
Output Shaft Flat	7 mm (0 / -0.1), per drawing
Output Shaft Extension	15 ±0.2 mm
Motor Section Length	40.0 ±0.2 mm
Gearbox Length	L — ratio-dependent; not numerically specified in supplied drawing
Front Step / Pilot Diameter	Ø22 mm shown in drawing
Drawing Status	Final production dimensions should follow the approved engineering drawing

Dimension Drawing



Main Applications

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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 output speed
- Lead wire and connector interface
- Direction-control and speed-control interface, subject to driver design
- Gearbox & Performance
- Gear ratio selection
- Output speed
- Torque target within gearbox capability
- Gearbox length based on ratio configuration
- Mechanical Interface
- Output shaft geometry and length
- Mounting interface
- Connector orientation and harness requirements
- Application-specific mechanical matching
- Control & Feedback
- PWM speed control
- CW/CCW direction control
- FG speed feedback
- Driver-function matching based on customer controller requirements
- Reliability Validation
- Duty cycle and temperature rise

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- Frequent start / stop and reversing
- Load variation and overload conditions
- Noise, vibration, target lifetime, and batch consistency
- Information Required for Custom Evaluation
- End product and motion task
- Rated and minimum operating voltage
- Target output speed
- Continuous / starting / peak torque
- Installation envelope and shaft/interface drawing
- Single-cycle running time and daily cycle count
- PWM / direction / FG interface requirements
- Ambient temperature and heat-dissipation conditions
- Noise and lifetime targets
- Expected annual quantity and certification requirements

FAQ

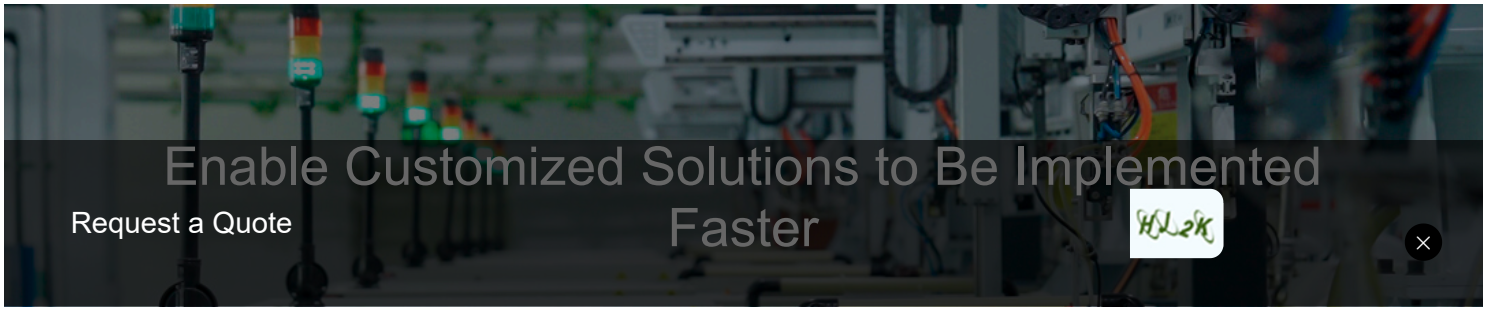
Q1: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

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?



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