Smart Lock Motor GM5764FD

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Smart Lock Motor GM5764FD

Main Applications

Smart Door Locks

Drive for latch / bolt transmission mechanisms requiring compact packaging, controlled geared output and repeatable ope

Electronic Cabinet & Locker Locks

Suitable for compact electromechanical locking mechanisms where installation space, current control and consistent actuation are important.

Hotel / Access-Control Lock Mechanisms

Can be evaluated for lock-body actuation requiring repeated cycles, bidirectional operation and defined electrical / mechanical interfaces.

Customized Locking Mechanisms

For non-standard lock bodies, the motor, ratio, output / sensing interface, lead wire and terminal can be evaluated against the customer's mechanism and test standard.

FAQ

Q1. How can noise be reduced in a smart lock gear motor?

Low-noise performance depends on motor speed, gear material and accuracy, gear ratio, backlash, lubrication, assembly consistency, lock-body resonance, and the control profile. For reliable evaluation, noise should be tested in the actual smart lock mechanism, including startup, running, reversing, and end-position impact, rather than relying only on no-load motor noise.

Q2. Can the GM5764FD-0001 maintain enough torque when the battery voltage drops?

This must be verified at the lock project's minimum operating voltage. The supplied drawing provides a 9 VDC rated reference b t specify a low-voltage operating range. Sample testing

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should therefore simulate the real battery condition, latch fri[illegible] pressure, temperature, and repeated unlocking to confirm starting current, actuation time, torque margin, and temperature rise.

Q3. How should stall or jam protection be handled in a smart lock motor system?

The supplied drawing states that stall operation is not allowed. Protection should therefore be coordinated between the motor, lock mechanism, and controller using methods such as current detection, operation timeout, end-position detection, reverse recovery, mechanical limits, and fault handling. Peak current and stall duration should be strictly controlled.

Q4. How do I place an order with Shunli Motor?

Please send us your application requirements or motor specifications. Our engineering team will develop a suitable solution, confirm the technical details, and provide samples for evaluation. Once the samples are approved, we will arrange mass production. Shipping methods can be selected based on your delivery requirements.

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Product Overview

9 VDC Micro DC Gear Motor for Electronic Lock & Access-Control Actuation The GM5764FD-0001 Smart Lock Motor is a compact 9 VDC micro DC gear motor designed for electronic lock and access-control mechanisms that require controlled geared output, bidirectional rotation, and integrated mechanical feedback features. The engineering drawing specifies a 1:63 reduction ratio, 340±10% RPM no-load speed, 315±10% RPM rated speed, 1.1 kgf·cm rated torque (reference), and ≥8.0 kgf·cm stall torque. The 55.2 mm-class package uses a K1630 PMDC motor and includes an output gear and sensing gear arrangement for mechanism integration. It can be evaluated for smart door locks, cabinet and locker locks, access-control actuators, and customized locking mechanisms. Final selection should be validated against the real lock-body load, minimum supply vol[illegible]nt limit, duty cycle, stall-protection strategy, and mounting/interface requirements.

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Model Information

Model	Motor Type	Product Category
GM5764FD-0001	DC Brushed Gearmotor	Smart Lock / Electronic Lock Motor

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Main Parameters

Technical Data

Rated Voltage	9 VDC
Gear Ratio	1:63
No-Load Speed	340±10% RPM
Rated Speed	315±10% RPM
Rated Torque	1.1 kgf·cm REF
Stall Torque	≥8.0 kgf·cm
Rotation Direction	CW / CCW
Noise	≤70 dB (L = 300 mm)

Technical Data

Gearmotor Model	Ratio	Voltage	No-Load Speed	No-Load Current	Rated Speed
GM5764FD-0001	1:63	9 VDC	340±10% RPM	≤150 mA	315±10% RPM

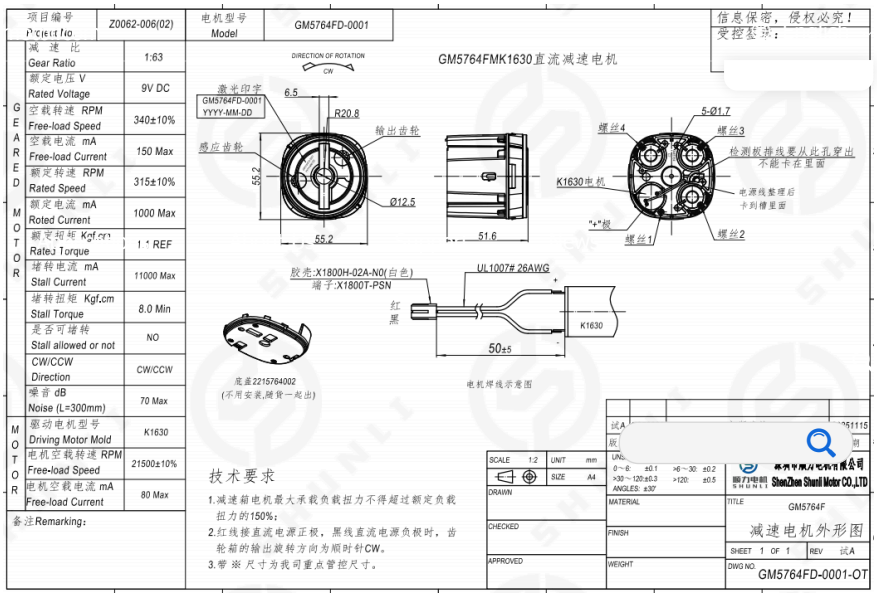
Technical Data

Gearbox / output width shown	55.2 mm
Main body length shown	51.6 mm
Driving motor	K1630 PMDC motor
Output interface	Integrated output gear shown
Sensing interface	Integrated sensing gear shown
Lead wire reference	50 ± 5 mm; UL1007 26AWG
Rotation reference	CW / CCW
Stall operation	Not allowed

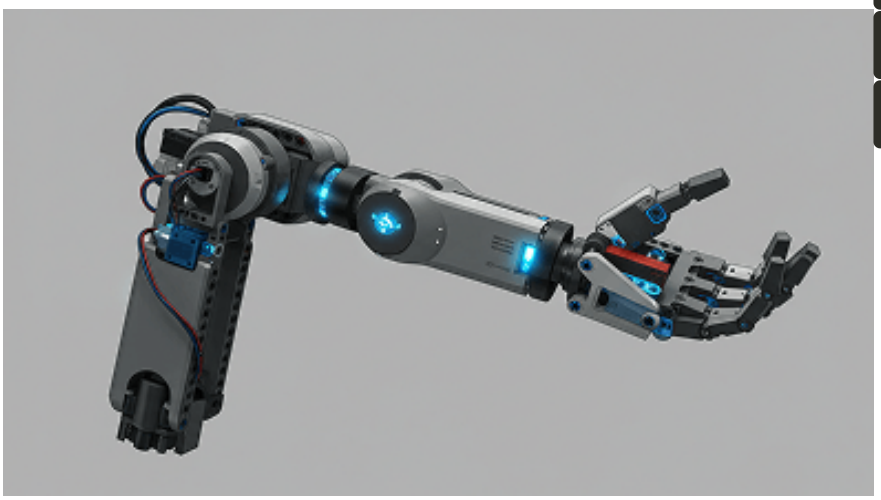
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Dimension Drawing

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Main Applications



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 / winding matching, rotation direction, lead wire length and terminal options can be evaluated for the project.
- Performance Matching
- Gear ratio, target output speed, rated load point, current limit and torque margin should be matched to the real lock mechanism and duty cycle.
- Mechanical Interface
- Output gear / shaft interface, sensing interface, mounting features and connection to the customer's lock-body transmission can be customized or evaluated from drawings and samples.
- Noise & Reliability

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Gear meshing, backlash, lubrication, motor operating point, assembly consistency and complete-lock resonance should be evaluated in the real product.

Control / Feedback Integration

The supplied design includes a sensing-gear arrangement. Hall sensor, encoder, switch or other feedback functions can be evaluated when required by the project, subject to the final electrical and mechanical specification.

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FAQ

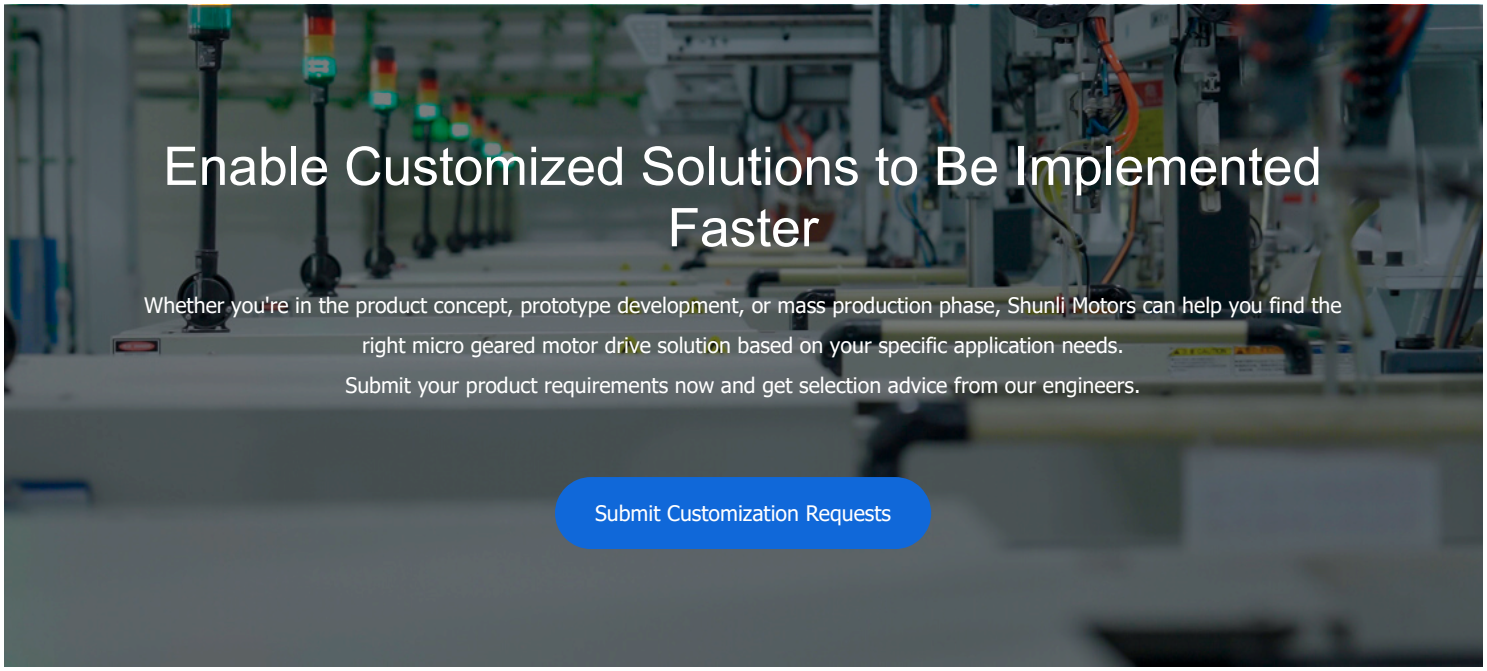
Q1: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

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.
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