Smart Lock Motor GM6623FD

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Smart Lock Motor GM6623FD

Main Applications

Smart Door Locks

Drive for latch / bolt transmission mechanisms requiring compact packaging, 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 gear, lead wire, and connector can be evaluated against the customer 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 GM6623FD-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 7.4 VDC rated reference, but real smart-lock performanc ends on latch friction, door pressure, controller current

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limit, temperature, and repeated unlocking conditions. Sam[illegible] should confirm starting current, actuation time, torque margin, and temperature rise.

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

Protection should be coordinated between the m[illegible] and controller using methods such as current detection, operation timeout, end-position detection, reverse recovery, mechanical limits, and fault handling. Peak current and abnormal-load duration should be controlled strictly during design validation.

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

Smart Lock Motor - GM6623FD-0001 Series 7.4 VDC Micro DC Gear Motor for Smart Lock, Electronic Lock & Access-Control Actuation The GM6623FD-0001 smart lock motor is a compact 7.4 VDC micro DC gear motor designed for electronic lock, cabinet lock, and access-control mechanisms that require a geared external output, bidirectional rotation, and stable speed/current control. According to the supplied engineering drawing, this model uses a 1:83 reduction ratio and provides 96±12% RPM no-load speed, 81±10% RPM rated speed, ≤0.30 A no-load current, ≤0.6 A rated current, 1.0 kgf·cm rated torque (reference), and ≥5.0 kgf·cm stall torque. The drawing also shows a compact side-mounted output-gear structure, a 2423 driving motor, and a CW/CCW rotation specification, making the product suitable for smart door lock transmission, locker lock actuation, compact access-control devices, and customized locking mechanisms. For final project [illegible] the gearmotor should be evaluated against the real latch or bolt load, minimum supply voltage, current

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limit, stall-protection strategy, duty cycle, noise target, and mechanical mounting relationship.

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Model Information

Model	Motor Type	Product Category
GM6623FD-0001	DC Brushed Gearmotor	Smart Lock / Electronic Lock Motor

Main Parameters

Technical Data

Rated Voltage	7.4 VDC
Gear Ratio	1:83
No-Load Speed	96±12% RPM
Rated Speed	81±10% RPM
Rated Torque	1.0 kgf·cm REF
Stall Torque	≥5.0 kgf·cm
Rotation Direction	CW / CCW
Noise	≤60 dBA (L = 300 mm)

Technical Data

Gearmotor Model	Ratio	Voltage	No-Load Speed	No-Load Current	Rated Speed	R C
GM6623FD-0001	1:83	7.4 VDC	96±12% RPM	≤0.30 A	81±10% RPM	

Technical Data

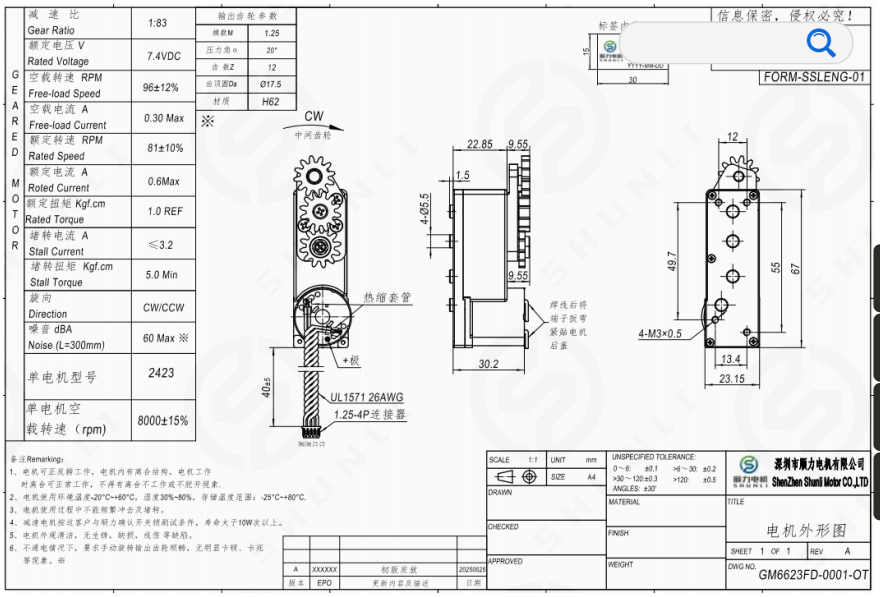
Overall assembly height shown	67 mm
Main side-plate length shown	55 mm
Main body depth shown	30.2 mm
Mounting pattern	4-M3×0.5 threaded holes shown
Output gear	Module 1.25; 12 teeth; pressure angle 20°; tip diameter φ17.5; material H

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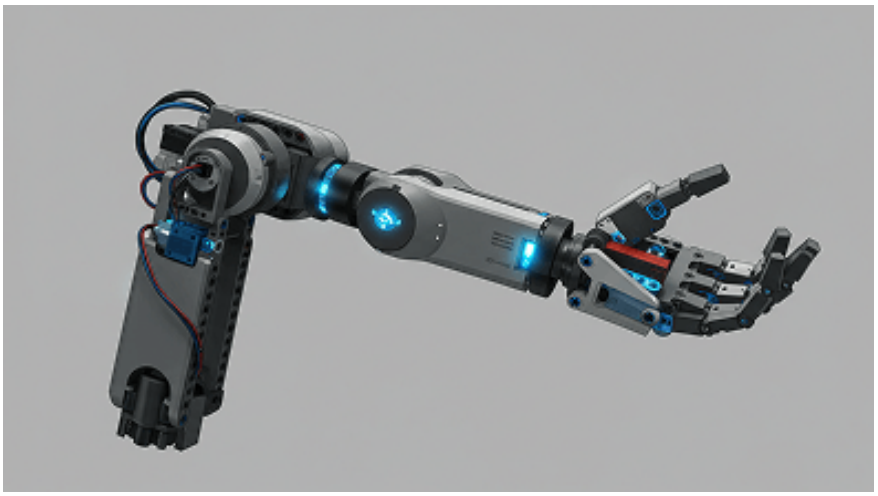
Driving motor	2423 brushed DC motor
Lead wire / connector	UL1571 26AWG; 1.25-4P connector
Rotation reference	CW / CCW

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Dimension Drawing



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 length, and connector options can be evaluated for the project.

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- 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 interface, mounting features, housing connection, and transmission relationship with the customer lock body can be customized or evaluated from drawings and samples.
- Noise & Reliability
- Gear meshing, backlash, lubrication, motor operating point, and complete-lock resonance should be evaluated in the real product.
- Control / System Integration
- According to project requirements, the motor can be evaluated together with driver control, end-position logic, current protection, and other system-level requirements used in smart-lock applications.

FAQ

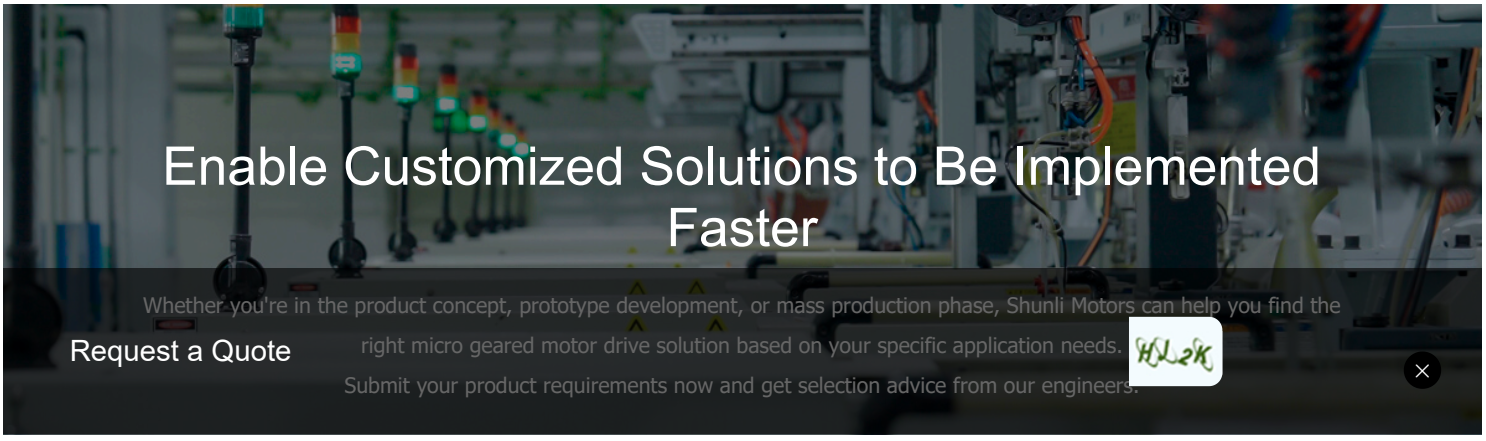
Q1: What types of projects are best suited to the GM58EM DC Worm Gear Motor?

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.

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Tel.: +86 755 2912 4182
+86 189 2746 6971
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