AC Shaded Pole Gear Motor SL6040

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PRODUCT CATEGORIES

- Brushed Gear Motor
- Brushless Gear Motor
- Coreless Gear Motor
- AC Shaded Pole Gear Motor
- Smart Lock Motor

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AC Shaded Pole Gear Motor SL6040

Main Applications

Kitchen & Food Equipment

BBQ rotisserie drives, fireplace mechanisms, meat choppers, western kitchen equipment, restaurant equipment, and other fixed-AC low-speed transmission mechanisms.

Focus: Suitable for fixed-speed, cost-sensitive designs. Confirm load, temperature rise, grease condition, and continuous operating time in the complete machine.

Commercial & Vending Equipment

Vending machines, beverage equipment, coffee machines, dispensing mechanisms, and other unattended AC-powered low-speed drives.

Focus: Verify restart performance, jam/stall conditions, long-term operation, ambient temperature, and thermal protection under the actual duty cycle.

Air Treatment & Ap Equipment

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Air cleaners, ventilation-related mech
auxiliary fan drives, and other appliance mechanisms requiring stable low-speed output from fixed AC power.
Focus: Noise, temperature rise, fan loading, bearing configuration, and enclosure ventilation should be validated in the finished product.

Agricultural & General Equipment

Agricultural equipment, instruments, simple rotating mechanisms, and other light- to medium-duty machines with available AC power.
Focus: For dusty, humid, or outdoor-adjacent installations, system-level protection against moisture, dust, corrosion, and insulation degradation is required.

Custom OEM Equipment

OEM mechanisms requiring a 70 × 120 mm-class gearbox face, selectable motor length, customized output shaft, or project-specific voltage, speed, and torque matching.
Focus: Final suitability should be confirmed from the actual load, installation space, duty cycle, ambient conditions, and required ser

FAQ

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Q1. Can an AC shaded pole gear motor run continuously for long periods?

Yes, continuous operation can be designed for, but the actual operating load, winding temperature rise, ambient temperature, heat dissipation, bearing or sleeve life, and lubrication conditions all need to be evaluated. Continuous duty and thermal testing should therefore be carried out in the complete product, and thermal or overload protection may be required depending on the application.

Q2. How can noise and vibration be reduced in an AC shaded pole gear motor?

Noise and vibration should be optimized at both the motor and gearbox levels. Key factors include the magnetic design and winding, rotor balance, bearing or sleeve condition, gear accuracy, gear backlash, gear material, lubrication, and the mounting structure. The fan blade, product housing, and mounting bracket can also introduce resonance. For this reason, noise should be evaluated on the customer's actual product, including

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start-up noise, running noise, gear-r… and structural resonance, rather than relying only on no-load motor noise.

Q3. How can reliability be improved under stall, overload, or voltage fluctuation conditions?

The motor should be evaluated under actual op… including stall current, winding temperature rise, starting capability, and restart performance. For equipment that may experience jamming, blocked fan blades, or prolonged overload, thermal protection, fuses, overload protection, or control-system protection should be considered. Testing should also cover low-voltage starting, high-voltage temperature rise, stalled operation, power-loss restart, and restart after long periods of inactivity to ensure that changes in supply voltage or frequency do not push speed, torque, or temperature beyond the acceptable operating range.

Q4: What information should I provide for a faster qu… and te… evaluation?

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Please provide the operating vo[illegible] and target speed. If complete parameters are not available, an existing motor sample, prototype, or mechanism drawing can be used for initial evaluation.

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Product Overview

The SL6040 is an AC shaded pole gear motor providing stable low-speed operation with a simple, reliable structure. It suits BBQ equipment, ovens, grills, and commercial kitchen equipment.

Model Information

Model	Motor Type	Product Category
SL6040-70C Series	AC Shaded Pole Motor	AC Shaded Pole Gear Motor

Main Parameters

Technical Data

Parameter	Specification	Notes
Rated Voltage	AC230V	50Hz
Gear Ratio	1:905	

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No-Load Output Speed	3.2±0.3 RPM	
No-Load Current	≤0.35 A	
No-Load Power	30±5 W	
Output Rotation	CCW	Per supplied drawing / product label
Noise	≤65 dB	L = 300 mm
Driving Motor	SP6030#	Shaded-pole motor
Motor No-Load Speed	2800±10% RPM	Motor reference

Technical Data

Mechanical Item	Specification	Tolerance / Detail	Notes
Gearbox Overall Width	70 mm	±1 mm	Front-view housing width
Overall Height	119 mm	±0.5 mm	Reference from engineering drawing
Overall Side Length	114.5 mm	±1 mm	Reference from engineering drawing

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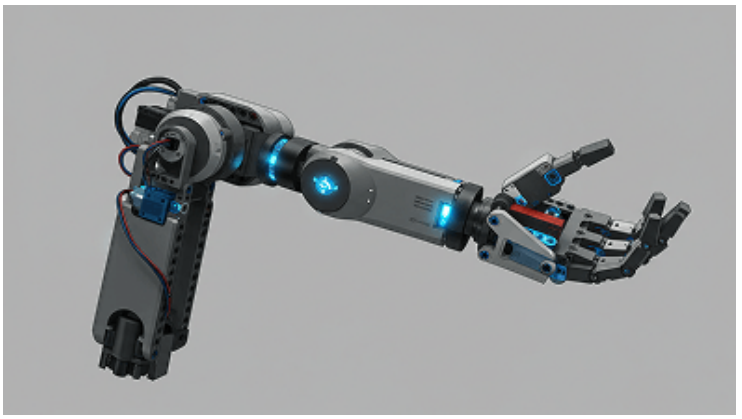
Mounting Features	6-Ø9 / 6-M5×0.8	As shown	Housing mounting references
Lead Wire	UL2464 / 18AWG	Total length 4000 mm	Rivet bundling 150 mm
Rotation Reference	CCW		Direction shown on supplied drawing

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Dimension Drawing

Contact us for the dimension drawing of this model.

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

AC100V–240V, 50Hz–60Hz; winding configuration, rotation direction, lead wire, and terminal options can be

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evaluated according to the project.

- **Performance Matching**

Gear ratio, output speed, output torque, and motor power can be selected within the series range according to the actual load and duty cycle.

- **Mechanical Interface**

Output shaft size and geometry can be customized; motor length is available in multiple GM70C variants, and an oil-bearing configuration is specified for matching.

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- **Thermal & Protection**

Validate temperature rise, stall/overload, restart, continuous operating time, and heat dissipation in the complete product; thermal protection can be evaluated where required.

- **Noise & Reliability**

Optimize magnetic noise, fan/bearing noise, gear meshing, lubrication, mounting resonance, and batch consistency according to the complete equipment.

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 ar ited

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to the GM58EM DC Worm Gear Motor?

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