Low-Speed

Synchronous Motors

Standard AC Motors

Constant Speed Motors

Low-Speed Synchronous Motors

Product Series

Three-Phase Induction Motors

Single-Phase Induction Motors

Reversible Motors

Clutch & Brake Motors

Motors

Watertight, **Dust-Resistant** Motors

Right-Angle Gearheads

Linear Heads

Brake Pack

Accessories

Installation

Low-Speed Synchronous Motors

SMK Series

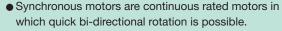
For details on this product please refer to our website.

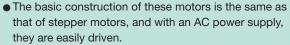
www.orientalmotor.com/catalog



 For detailed information about regulations and standards, please see the Oriental Motor website.











View Expanded Product Information, Specifications, CAD, Accessories & more online. Visit www.orientalmotor.com/catalog or use the QR code and select "5MK Series".

Features

Low-Speed / Synchronous Rotation

The motor rotates at a speed proportional to and accurately synchronized with the frequency of the power supply. A fluctuation in load does not affect the rotation speed. At 50 Hz 60 r/min (30 r/min)*

At 60 Hz 72 r/min (36 r/min)*

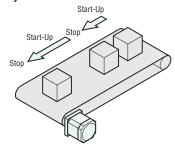
*For SMK014MA-A

Continuous Rated Capacitor-Run Motor

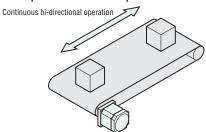
This is a capacitor-run motor that can be driven by a capacitor only (An external resistance is needed for **SMK5** type). This can be driven at a continuous rating even when bi-directional operation is required.

• Superb Starting, Stopping and Reversing Characteristics If operated within the permissible inertia, the motor can start, stop and reverse within 1.5 cycles (0.03 sec at 50 Hz, 0.025 sec at 60 Hz) of power supply frequency.

Suitable for equipment that starts and stops repeatedly such as conveyors.



♦ Bi-directional operation can be repeated continuously.

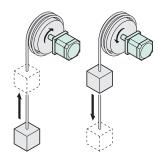


Precise Positioning

The motor can be stopped instantly by turning off the power supply. The stopping accuracy within the motor's permissible inertia is $\pm 10^\circ$.

Vertical Applications

Constant speed can be maintained even during gravitational operations. Low-speed synchronous motors are suitable for applications, such as an elevator system, whereby vertical operation at a constant speed is required.



Holding Torque

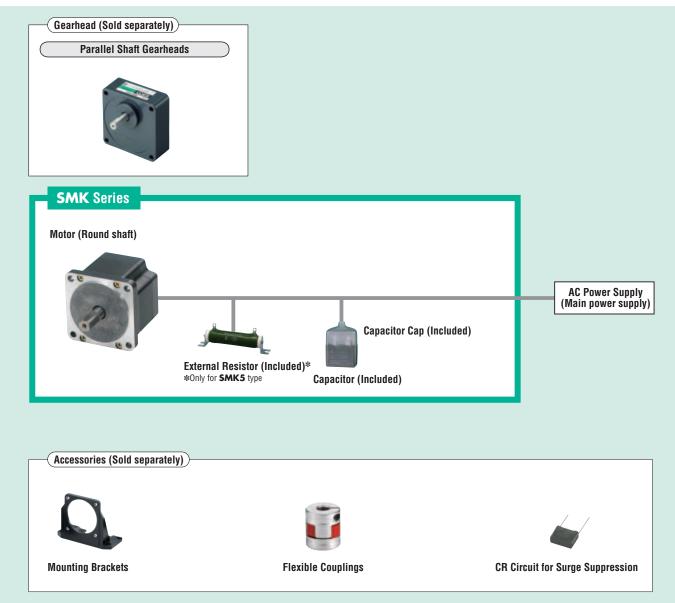
Since a permanent-magnet, multi-poled rotor is used, the motor has holding torque even when the motor is not energized. When used with a gearhead, comparatively high holding torque can be utilized.

• When, at motor standstill, a DC power supply is used, a large holding torque almost equal to that of a stepper motor can be produced.

Long Life, Low Noise GN-S Gearhead is Available

The "long life, low noise **GN-5** gearhead" achieves a long rated life of 10000 hours, twice the level of a conventional gearhead, by adopting innovative technologies and structure. The gearhead is also designed for low noise.

System Configuration



Product Series

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Reversible Motors

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Motors

Watertight, Dust-Resistant Motors

Right-Angle Gearheads

Linear Heads

Brake Pack

Accessories

Installation

Product Number

Motor

<u>SMK 0 14 M A - A</u>

2 3 4 5

Gearhead

GN 50 SA

3

Geared Motor

SMK 0 A - 120 A

2 3

1	Series	SMK: SMK Series		
2	Motor Frame Size	0 : 42 mm (1.65 in.) 2 : 56.4 mm (2.22 in.) [GN Pinion Shaft Type 60 mm (2.36 in.)] 5 : 85 mm (3.35 in.) [GN Pinion Shaft Type 90 mm (3.54 in.)]		
3	Motor Torque	14 : 0.14 N·m (19.8 oz-in.) 37 : 0.37 N·m (52 oz-in.) 100 : 1.0 N·m (142 oz-in.) 160 : 1.6 N·m (22 oz-in.) 160 : 1.6 N·m (220 oz-in.)		
4	Speed	Blank: 60/72 r/min (50/60 Hz) M: 30/36 r/min (50/60 Hz)		
(5)	Power Supply Voltage	A: Single-Phase 115 VAC		
6	Motor Shaft Type	A, AA: Round Shaft GN: GN Type Pinion Shaft		

(1)	Gearhead Frame Size	2 : 60 mm (2.36 in.) 5 : 90 mm (3.54 in.)
2	Type of Pinion	GN: GN Type Pinion
3	Gear Ratio	(Example) 50 : Gear Ratio of 50:1
4	SA: Long Life, Low Noise	GN-S Gearhead

1	Series	SMK: SMK Series
2	Motor Frame Size	0 : 42 mm (1.65 in.)
3	Power Supply Voltage	A: Single-Phase 115 VAC
4	Gear Ratio	(Example) 120: Gear Ratio of 120:1
(5)	Motor Shaft Type	A: Single Shaft

Product Line

Motor

Motor Frame Size	Power Supply Voltage	Shaft Type	Product Name	List Price
42 mm	Single-Phase 115 VAC	Round Shaft	SMK014A-A	\$87.00
(1.65 in.)			SMK014MA-A	\$91.00
56.4 mm (2.22 in.)			SMK237A-A	\$104.00
85 mm			SMK5100A-AA	\$164.00
(3.35 in.)			SMK5160A-AA	\$239.00
60 mm (2.36 in.)		GN Type Pinion Shaft	SMK216A-GN	\$99.00
90 mm (3.54 in.)			SMK550A-GN	\$169.00

Geared Motor

Motor Frame Size	Power Supply Voltage	Product Name	Gear Ratio	List Price
	Single-Phase 115 VAC	SMKOA-□A	3, 3.6, 7.5, 9	\$153.00
42 mm			15, 18	\$159.00
(1.65 in.)			30, 36, 50, 60	\$165.00
			100, 120	\$174.00

The following items are included with each product. Motor, Capacitor, Capacitor Cap, External Resistor*, Operating Manual *Only for **SMK5** type

Parallel Shaft Gearhead (Sold separately)

Applicable Motor (Pinion shaft)	Product Name Gear Ratio		List Price
France Cine	2GN□SA	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18	\$76.00
Frame Size □60 mm (□2.36 in.)		25, 30, 36	\$83.00
00 mm (2.50 m.)		50, 60, 75, 90, 100, 120, 150, 180	\$91.00
F 0'	5GN□SA	3, 3.6, 5, 6, 7.5, 9, 12.5, 15, 18	\$97.00
Frame Size □90 mm (□3.54 in.)		25, 30, 36	\$107.00
□30 IIIII (□3.34 III.)		50, 60, 75, 90, 100, 120, 150, 180	\$118.00

-The following items are included with each product. -Gearhead, Installation Screws, Operating Manual



For details (specifications, characteristics, dimensions and others) on these products please refer to either to our website, contact technical support or your nearest Oriental Motor sales office.

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ullet A number indicating the gear ratio is entered where the box \Box is located within the product name.