



ORIENTAL MOTOR U.S.A. Corp.
570 Alaska Avenue
Torrance, CA 90503
1-800-GO-VEXTA (468-3982)

Item # SMK550A-GN / 5GN15SA, 3.54 in. (90 mm) Low-Speed Synchronous Motor (15:1 Gear Ratio)



Motor & gearhead ship separately.

Low-speed synchronous motors rotate 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.

- Low-Speed Synchronous Rotation
- Superb Starting, Stopping and Reversing Characteristics
- Precise Positioning



Web Price

\$322.00

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Specifications	
Lead Time ¹	Estimated Ship: 01/30/2026
Product Line	VEXTA®
Motor Type	Low-Speed Synchronous
Frame Size	3.54 in
Power Supply	Single-Phase 100-115 VAC
Frequency (Hz)	60 50
Current	0.06 A [100 VAC, 50 Hz] 0.07 A [100/115 VAC, 60 Hz]
Shaft/Gear Type	Parallel Shaft Gearhead
Gear Ratio (X:1)	15 :1
Output Shaft Diameter	1/2 in.
Rated Torque	44 lb-in

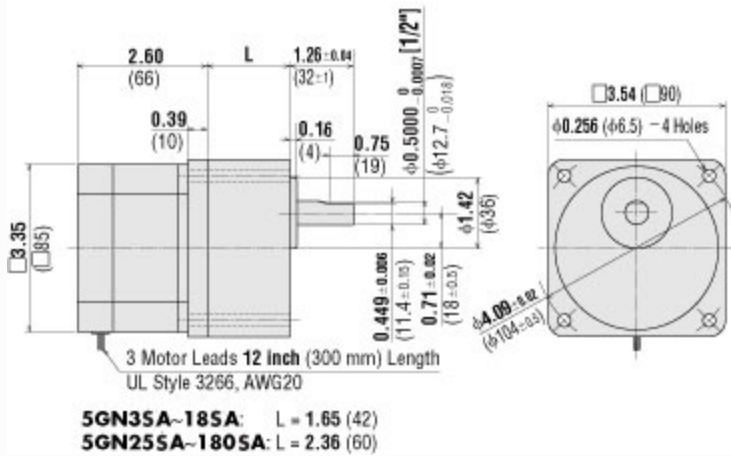


Rated Speed (rpm)	4.8 [60 Hz] 4 [50 Hz]
Permissible Load Inertia	8600 oz-in ²
Permissible Overhung Load	0.39 in. from Shaft End = 56 lb 0.79 in. from Shaft End = 78 lb
Permissible Thrust Load	22 lb
RoHS Compliant	Yes
Safety Standards	UL CSA CE
California Proposition 65	<p>⚠ CA WARNING</p> <p>Cancer risk from exposure to Nickel. See www.P65Warnings.ca.gov</p> <p>Risk of reproductive harm from exposure to Di-n-hexyl phthalate (DnHP). See www.P65Warnings.ca.gov</p> <p>Risk of cancer and reproductive harm from exposure to Di(2-ethylhexyl phthalate (DEHP). See www.P65Warnings.ca.gov</p> <p>See "?" or copy/paste www.P65Warnings.ca.gov in your browser.</p>
Insulation Resistance	100 MΩ or more when the megger reading between the windings and the case is 500 VDC.
Dielectric Strength	Sufficient to withstand 1.5 kV at 60 Hz applied between the windings and the case for 1 minute.
Temperature Rise	99°F (55°C) or less as measured by thermometer method after rated operation.
Insulation Class	Class E {248°F (120°C)], Recognized as Class A [221°F (105°C)] by UL and CSA standards.
Ambient Temperature Range	14°F ~ 104°F (-10°C ~ 40°C) (nonfreezing)
Components	<p>5GN15SA, GN Gearhead Parallel Shaft (15:1) (\$117.00)</p> <p>SMK550A-GN, SMK Series Low-Speed Synchronous Pinion Shaft Motor (Single-Phase 100-115 VAC) (\$205.00)</p>

Dimensions

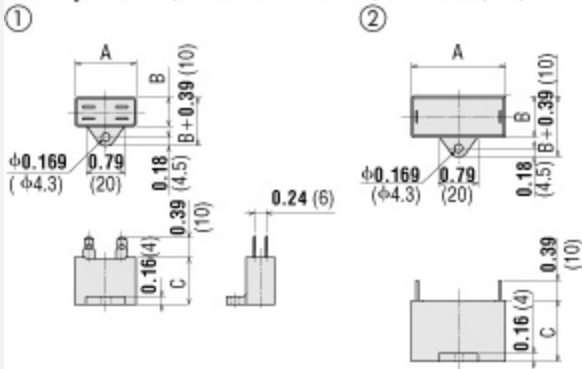
SMK550A-GN/5GN□SA

Weight: 7.0 lb. (3.2 kg)



Capacitor

Capacitor (included with the motor) Unit = inch (mm)

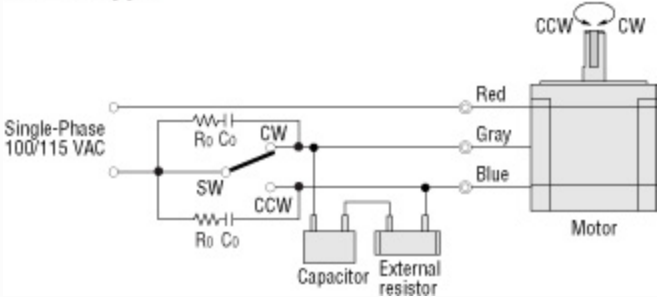


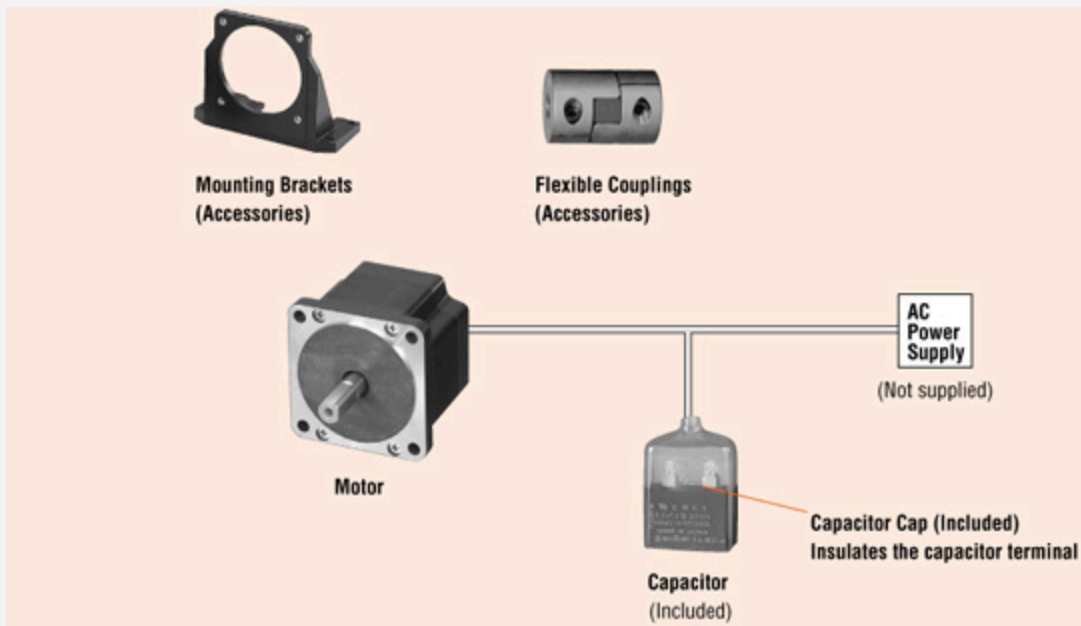
Motor Model	Capacitor Model	Dimensions inch (mm)			Weight oz. (g)	No.
		A	B	C		
SMK014A-A SMK014MA-A SMK0A-□A	CH06BFAUL	1.22 (31)	0.57 (14.5)	0.93 (23.5)	0.53 (15)	①
SMK216A-GN SMK237A-A	CH12UL	1.22 (31)	0.57 (14.5)	0.93 (23.5)	0.6 (17)	②
SMK550A-GN	CH06BUL	1.22 (31)	0.57 (14.5)	0.93 (23.5)	0.53 (15)	②
SMK5100A-AA SMK5160A-AA	CH25UL	1.22 (31)	0.67 (17)	1.07 (27)	0.71 (20)	②

Capacitor cap is included with the capacitor.

Connection

SMK5 Type





The system configuration shown is an example. Other combinations are available.

¹ Quoted Ship Date for orders placed before 12:00 pm PST. Quantities may affect Shipping Date.

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