

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

# Item # 5IK90GE-SW2T / 5GE7.5SA, 90 W (1/8 HP) Induction Motor (7.5:1 Gear Ratio) (Three-Phase 200/220/230 VAC)

Induction motors are optimal for uni-directional continuous operation such as a conveyor system.

Optimal for uni-directional continuous operation

Conform to safety standards and global power supply voltages





Motor & gearhead ship separately.

#### Specifications | Dimensions | Connection | System

Specifications -			
	Lead Time <sup>1</sup>	Contact your local sales office for more information.	
	Product Line	Oriental Motor ®	
	Motor Type	Induction	
	Frame Size	3.54 in	
	Output Power	90 W (1/8 HP)	
	Voltage (VAC)	Three-Phase 200/220/230 VAC	
	Frequency (Hz)	60 50	
	Current	0.59 A [200 VAC, 60 Hz] 0.60 A [220 VAC, 60 Hz] 0.61 A [230 VAC, 60 Hz] 0.64 A [200 VAC, 50 Hz]	
	Shaft/Gear Type	Parallel Shaft Gearhead	
	Gear Ratio (X:1)	7.5 :1	

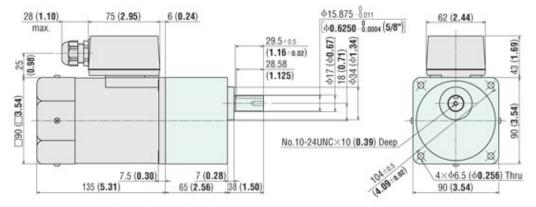
Output Shaft	Imperial
Output Shaft Diameter	5/8 in.
Туре	Terminal Box
Electromagnetic Brake	Not Equipped
Rated Torque	30 lb-in [60 Hz] 36 lb-in [50 Hz]
Rated Speed (rpm)	200 [200 VAC, 50 Hz] 240 [60 Hz]
Permissible Load Inertia	337.50 oz-in <sup>2</sup>
Permissible Overhung Load	0.39 in. from Shaft End = 90 lb 0.79 in. from Shaft End = 112 lb
Permissible Thrust Load	33 lb
RoHS Compliant	Yes
Safety Standards	UL CSA CCC EN CE
CE Marking	Low Voltage Directives
Insulation Resistance	100 M $\Omega$ or more when 500 VDC megger is applied between the windings and the frame after rated motor operation under normal ambient temperature and humidity.
Dielectric Strength	Sufficient to withstand 1.5 kV at 50 Hz or 60 Hz applied between the windings and the frame for 1 minute after rated motor operation under normal ambient temperature and humidity.
Temperature Rise	Temperature rise of windings are 126°F (70°C) or less measured by the resistance change method after rated motor operation with connection to gearhead.
Insulation Class	Class B (266°F [130°C])
Overheat Protection	Built-in thermal protector (Automatic return type). Operating temperature, open: $266^{\circ}F \pm 9^{\circ}F$ ( $130^{\circ}C \pm 5^{\circ}C$ ) close: $179.6^{\circ}F \pm 27^{\circ}F$ ( $82^{\circ}C \pm 15^{\circ}C$ )
Ambient Temperature Range	Three-phase 200 VAC: 14°F ~ 122°F (-10°C ~ 50°C) (nonfreezing) Other voltage: 14°F ~ 104°F (-10°C ~ 40°C) (nonfreezing)
Ambient Humidity	85% maximum (noncondensing)
Degree of Protection	IP54

Dimensions

# Dimensions Unit = mm (inch)

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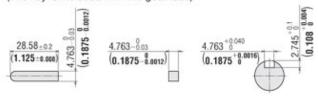
Mass: Motor 3.3 kg (7.3 lb.) Gearhead 1.5 kg (3.3 lb.)



 $\bullet$  Use cable with a diameter of  $\varphi6\sim\varphi12$  mm ( $\varphi0.24\sim\varphi0.47$  inch).

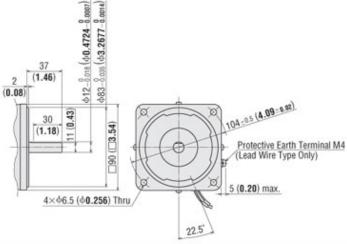
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(The key is included with the gearhead)



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The mass and motor's dimensions (excluding the shaft section) are the same as those of the pinion shaft type.

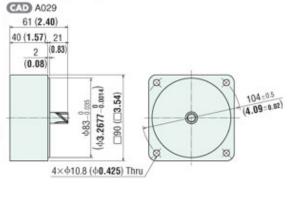


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Can be connected to **GE** pinion shaft type.

#### 5GE10XS

Mass: 0.6 kg (1.32 lb.)

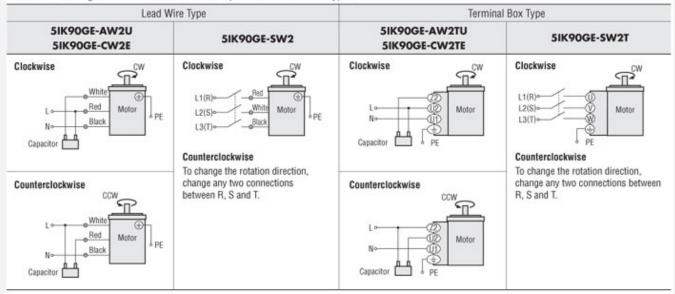


Connection -

# Connection Diagrams

The direction of motor rotation is as viewed from the shaft end of the motor. CW represents the clockwise direction, while CCW represents the counterclockwise direction.

Connection diagrams are also valid for the equivalent round shaft type.



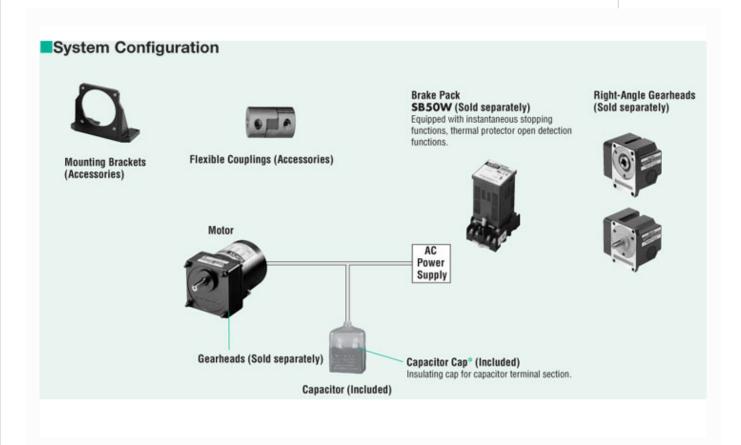
PE: Protective Earth

#### Note:

Change the direction of single-phase motor rotation only after bringing the motor to a stop.

If an attempt is made to change the direction of rotation while the motor is rotating, motor may ignore reversing command or change its direction of rotation after some delay.

# System



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

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