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

Item # 2RK6GN-CW2ME, 6 W (1/125 HP) World K Series AC Motors Electromagnetic Brake - Reversible Pinion Shaft Motor (Single-Phase 220/230 VAC)

These motors are coupled to an AC electromagnetic brake which is activated when power is not applied. When the power source is turned off, the motor stops instantaneously and holds the load.

- Power off activated type electromagnetic brake
- Conforms to safety standards and global power supply voltages
- Gearhead Required

Web Price

$215.00

Specifications | Dimensions | Connection | System

Specifications

Available to Ship[1]	Up to 10 pcs as of 6:30am EST Estimated Ship: 08/26/2025
Product Line	Oriental Motor®
Motor Type	Electromagnetic Brake - Reversible
Frame Size	2.36 in
Output Power	6 W (1/125 HP)
Voltage (VAC)	Single-Phase 220/230 VAC
Frequency (Hz)	60 50
Current	0.107 A [220 VAC, 50 Hz] 0.109 A [220 VAC, 60 Hz] 0.112 A [230 VAC, 50 Hz] 0.113 A [230 VAC, 60 Hz]
Shaft/Gear Type	Pinion Shaft (Gearhead required - sold separately)
Type	Lead Wire
RoHS Compliant	Yes

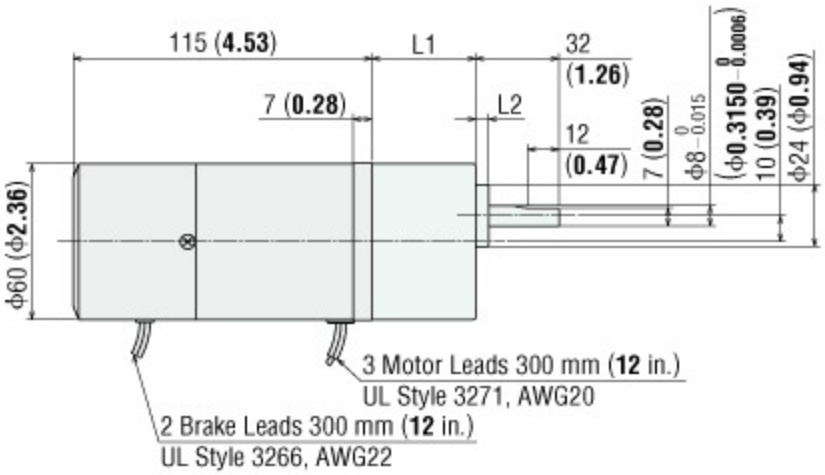
Safety Standards	UL CSA CCC EN CE
CE Marking	Low Voltage Directives
Electromagnetic Brake	Equipped
Insulation Resistance	100 MΩ or more when 500 VDC megger is applied between the windings and the frame after rated motor operation under normal ambient temperature and humidity.
Dielectric Strength	Sufficient 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 144ºF (80ºC) or less measured by the resistance change method after rated motor operation with connection to gearhead.
Insulation Class	Class B (266ºF [130ºC])
Overheat Protection	Impedance protection
Ambient Temperature Range	14ºF ~ 122ºF (-10ºC ~ 50ºC) (nonfreezing)
Ambient Humidity	85% maximum (noncondensing)
Degree of Protection	IP20

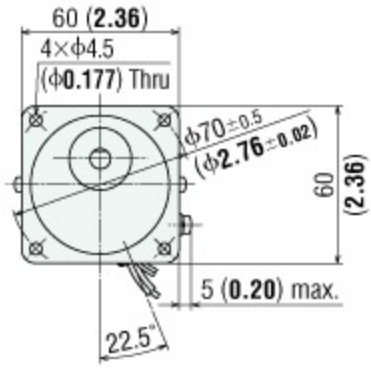
Dimensions −

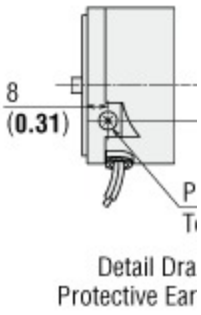
Dimensions [Unit: mm (in.)]

Motor and Parallel Shaft Gearhead

Motor Product Name	Gearhead Product Name	Gear Ratio	L1	L2	Mass kg (lb.)	
					Motor	Gearhead
2RK6GN-AW2M□ 2RK6GN-CW2M□ 2IK6GN-SW2M	2GN□K	3~18	30 (1.18)	3 (0.12)	0.9 (1.98)	0.24 (0.53)
		25~36	40 (1.57)			0.31 (0.68)
		50~180				0.34 (0.75)



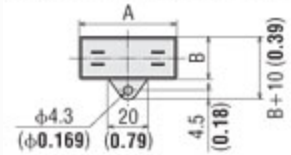


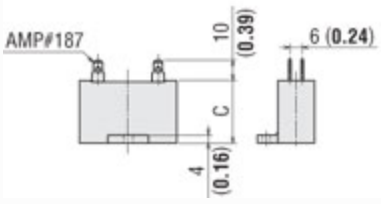


Detail Dra
Protective Ear

- The installation screws are included with the gearhead.
- Either **J**, **U**, or **E** indicating the type of capacitor included is entered where the box □ is located within the product name.
  A number indicating the gear ratio is entered where the box □ is located within the product name.

◇Capacitor
(Included with single-phase motors)





◇Capacitor Dimensions mm (inch)

Model		Capacitor Model	A	B	C	Mass g (oz.)	Capacitor Cap
Pinion Shaft Type	Round Shaft Type						
2RK6GN-AW2MU	2RK6A-AW2MU	CH35FAUL2	31 (1.22)	17 (0.67)	27 (1.06)	25 (0.88)	Included
2RK6GN-CW2ME	2RK6A-CW2ME	CH088FAUL	31 (1.22)	17 (0.67)	27 (1.06)	20 (0.71)	

nbsp;

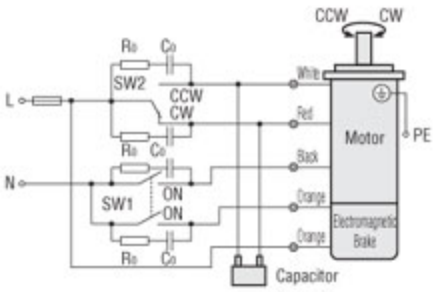
Connection −

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.

Single-Phase Motor

2RK6GN-AW2MU
2RK6GN-CW2ME



SW1 operates both motor and electromagnetic brake action.
The motor will rotate when SW1 is switched simultaneously to ON.
When SW1 is switched simultaneously to OFF, the motor stops immediately with the electromagnetic brake and holds the load.

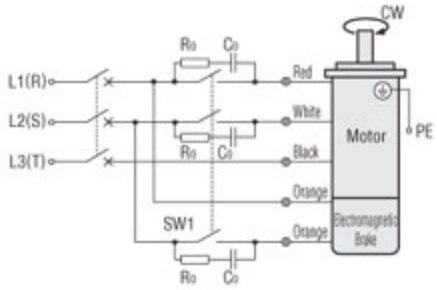
If you wish to release the brake while the motor is stopped, apply voltage between the two brake lead wires (orange).

Direction of Rotation
To rotate the motor in a clockwise (CW) direction, turn SW2 to CW.
To rotate the motor in a counterclockwise (CCW) direction, turn SW2 to CCW.

Switch No.	Specifications		Note
	Single-Phase 110/115 VAC Input	Single-Phase 220/230 VAC Input	
SW1	125 VAC 3 A minimum (Inductive Load)	250 VAC 1.5 A minimum (Inductive Load)	Switched Simultaneously
SW2			—

Three-Phase Motor

2IK6GN-SW2M



SW1 operates both motor and electromagnetic brake action.
The motor will rotate when SW1 is switched simultaneously to ON.
When SW1 is switched simultaneously to OFF, the motor stops immediately with the electromagnetic brake and holds the load.

If you wish to release the brake while the motor is stopped, apply voltage between the two brake lead wires (orange).

Direction of Rotation
To change the rotation direction, change any two connections between R, S and T.

Switch No.	Specifications	Note
SW1	250 VAC 1.5 A minimum (Inductive Load)	Switched Simultaneously

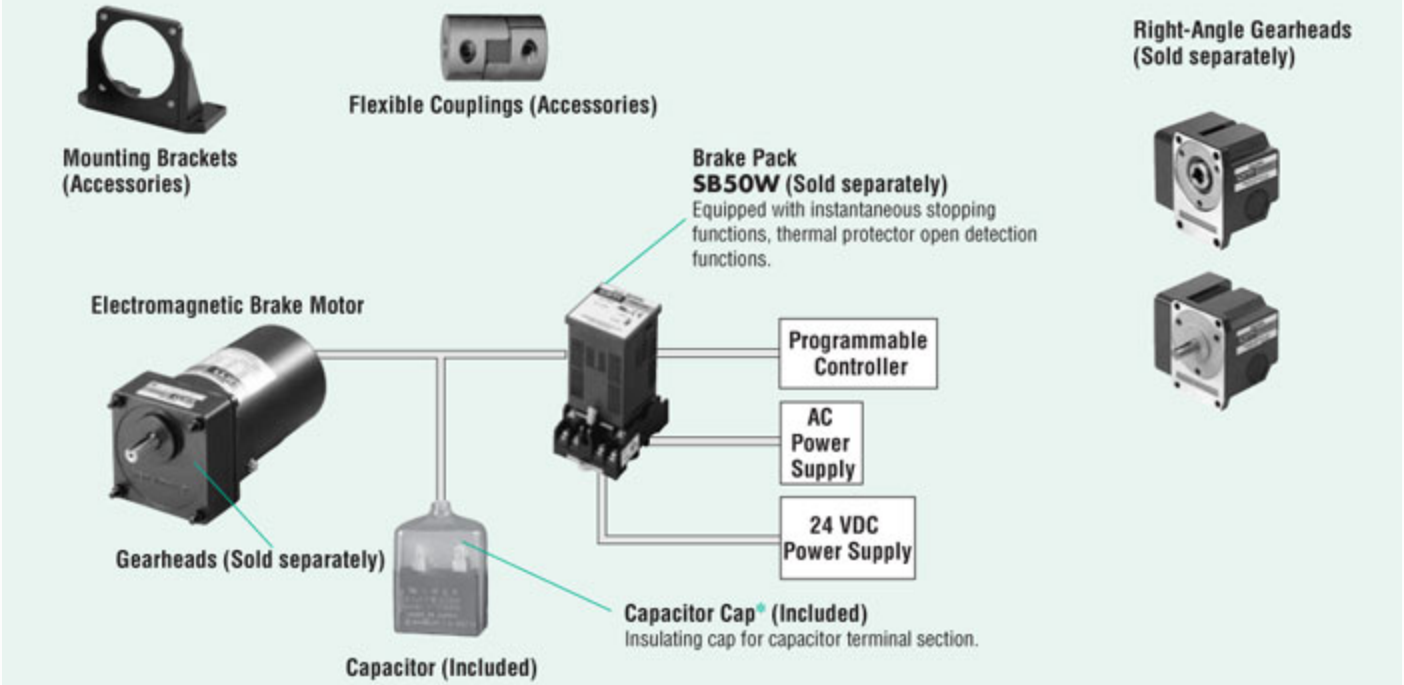
PE: Protective Earth

- Ro and Co indicate surge suppressor circuit. [Ro=5~200 Ω, Co=0.1~0.2 μF, 200 WV (400 WV)]

EPCR1201-2 is available as an optional surge suppressor. ➜ Page 119

System −

System Configuration



●Example of System Configuration

◎: Required under this system.
○: Optional accessory offered by Oriental Motor.

(Body)	(Sold separately)			
Motor (Pinion Shaft)	Long Life/Low Noise GN-S Gearhead	Mounting Bracket	Flexible Coupling	Brake Pack
4RK25GN-AW2MU	4GN25SA	SOL4U10	MCL40F06F08	SB50W
	◎	○	○	○

*Capacitor cap is included.

● The system configuration shown above is an example. Other configurations are available.

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

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