

Standard AC Motors

Reversible Motors

Reversible Motors

Overview

Three-Phase Induction Motors

Induction Motors

Reversible Motors

Electromagnetic Brake Motors

Clutch & Brake Motors

Low-Speed Synchronous Motors

Torque Motors

IP67 Watertight, Dust-Resistant Motors

Brake Pack

AC Speed Control Motors

AC input DSC

Reversible Motors



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



Terminal Box Type

Lead Wire Type

- Ideal for Bi-Directional Operation
- Conforms to Standards
- Compatible with Gearheads



See Full Product Details Online
www.orientalmotor.com

- Manual
- Specifications
- Dimensions
- CAD
- Characteristics
- Connection and Operation

Features of Reversible Motors

● Ideal for Bi-Directional Operation

Reversible motors have a 30 minutes rating to permit instantaneous switching of the rotational direction. A friction brake is equipped at the back of the motor, which makes reversible motors an ideal choice for applications where the rotational direction changes.

● 30 minutes rating: The motors may be operated continuously for 30 minutes, but depending on operating conditions (intermittent operation, etc.), they can be operated for more than 30 minutes.

● Easy Operation

All you need is to connect a capacitor and plug the motor into an AC power supply and the motor can be easily operated.

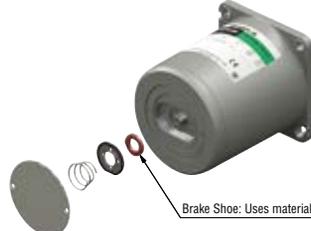
● Extensive Lineup

We have models with an output power range of 6 W (1/125 HP) to 90 W (1/8 HP), so you can find a motor that meets your specific application.

● Compatible with Gearheads

Combination with a gearhead allows the motor speed to be reduced to the required speed or generate higher torque.

Types of Reversible Motors

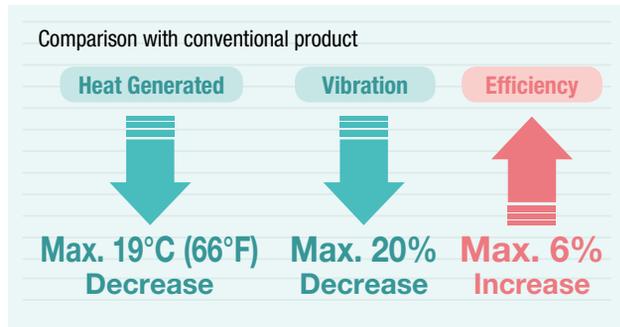
Series	Features, Product Line									
KII Series  	<ul style="list-style-type: none"> ● New Global Standard With a high performance gearhead built in, it is the new global standard for standard AC motors. ● Equipped with a High-Performance Gearhead ● Ideal for Instantaneous Bi-Directional Operation The motor has a built-in friction brake mechanism (friction brake) at its rear. This is ideal for the applications below. <ul style="list-style-type: none"> ● To repeatedly use the instantaneous bi-directional operation. ● To reduce overrun. <p>The new brake shoe with new structure experiences less aging deterioration than before.</p>  <p>Brake Shoe: Uses materials that resist wear.</p> 	<ul style="list-style-type: none"> ● Product Line <table border="1"> <tr> <td>Frame Size</td> <td>□60 mm (□2.36 in.)~□90 mm (□3.54 in.)</td> </tr> <tr> <td>Output Power</td> <td>Terminal Box Type: 25 W (1/30 HP)~90 W (1/8 HP) Lead Wire Type: 6 W (1/125 HP)~90 W (1/8 HP)</td> </tr> <tr> <td>Type</td> <td>Terminal Box Type: Parallel Shaft, Round Shaft Type Lead Wire Type: Parallel Shaft, Round Shaft Type</td> </tr> <tr> <td>Voltage</td> <td>Single-Phase 110/115 VAC Single-Phase 220/230 VAC</td> </tr> </table>	Frame Size	□60 mm (□2.36 in.)~□90 mm (□3.54 in.)	Output Power	Terminal Box Type: 25 W (1/30 HP)~90 W (1/8 HP) Lead Wire Type: 6 W (1/125 HP)~90 W (1/8 HP)	Type	Terminal Box Type: Parallel Shaft, Round Shaft Type Lead Wire Type: Parallel Shaft, Round Shaft Type	Voltage	Single-Phase 110/115 VAC Single-Phase 220/230 VAC
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KII Series Features

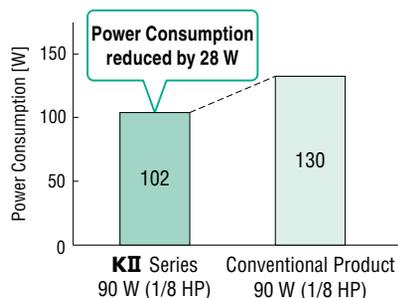
Excellent Motor Performance

The magnetic balance for each input voltage has been re-examined and the motors have been specially designed to optimize their characteristics.

Designing specifically for each voltage not only improves efficiency, but also contributes to equipment reliability by reducing heat and vibration generated by the motor.



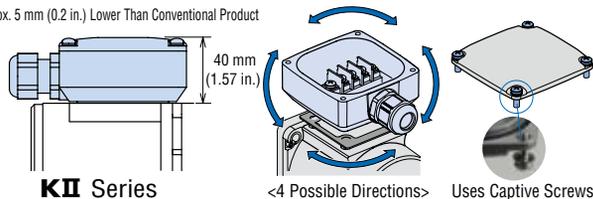
Energy Savings



Built-In Slim Body Terminal Box (Terminal box type)

A new shape of terminal box was designed to make wiring the terminal block easier. It is slimmer than conventional products, and the cable outlet can be rotated in 90° increments for 4 possible directions.

Approx. 5 mm (0.2 in.) Lower Than Conventional Product

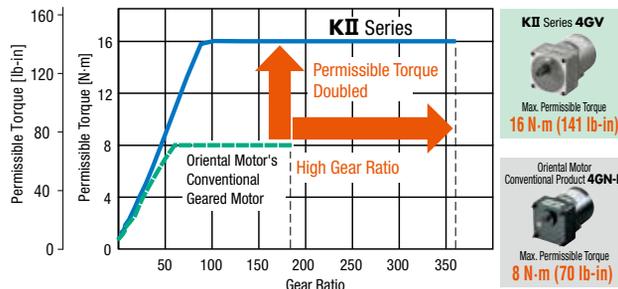


Equipped with a High-Performance Gearhead

High Permissible Torque

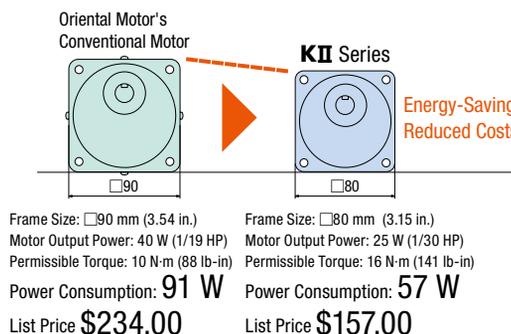
The permissible torque is up to twice that of conventional products.

● 25 W (1/30 HP) Gearhead Output Torque (Permissible)



Downsizing is Possible with the Same Output Torque

Downsizing is possible by changing our company's conventional products with the KII Series. If a smaller size motor can be selected, not only the power consumption but also the purchase cost can be reduced.



High Strength

The permissible radial load and the permissible axial load are up to twice that of conventional products.



Long-Life

At 10,000 hours, the rated life is twice that of a conventional product.

Noise Reduction

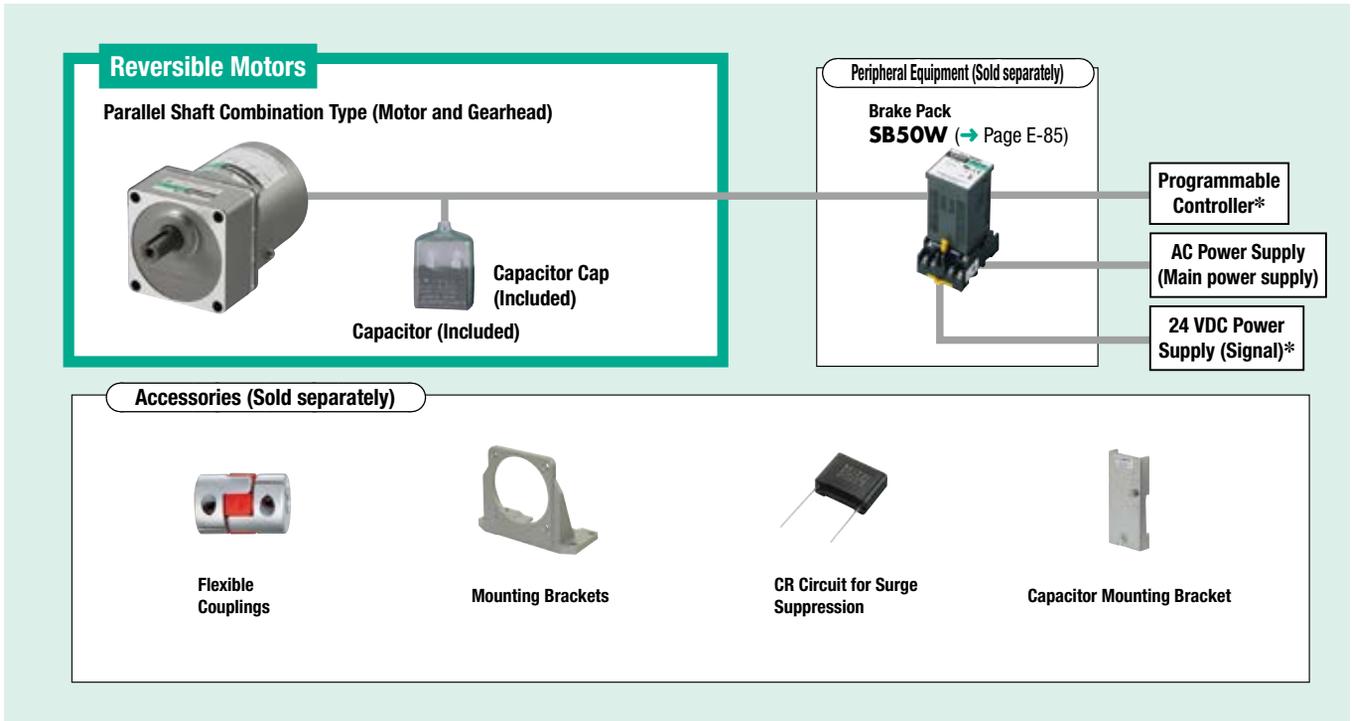
The contact noise of the motor and gearhead is approximately 6 dB less compared to a conventional product.

Product Line of Reversible Motors

Series	Voltage (VAC)	Type	Motor Frame Size, Output Power					
			□60 mm (□2.36 in.)	□70 mm (□2.76 in.)	□80 mm (□3.15 in.)	□90 mm (□3.54 in.)		
			6 W (1/125 HP)	15 W (1/50 HP)	25 W (1/30 HP)	40 W (1/19 HP)	60 W (1/12 HP)	90 W (1/8 HP)
KII Series	Single-Phase 110/115	Terminal Box Type			●	●	●	●
	Single-Phase 220/230	Lead Wire	●	●	●	●	●	●

System Configuration

*Not supplied.



Product Number

● Parallel Shaft Combination Type

5 R K 40 UA T2 - 100 A

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

● Round Shaft Type

5 R K 40 A - UA T2

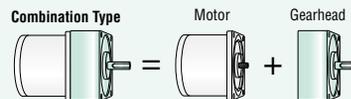
① ② ③ ④ ⑦ ⑤ ⑥

①	Motor Frame Size	2: 60 mm (2.36 in.) 3: 70 mm (2.76 in.) 4: 80 mm (3.15 in.) 5: 90 mm (3.54 in.)
②	Product name	R: Reversible Motor
③	Series Name	K: KII Series
④	Output power	(Example) 40: 40 W (1/19 HP)
⑤	Power Supply Voltage/Number of Poles	UA: Single-Phase 110/115 VAC · 4-Pole UC: Single-Phase 220/230 VAC · 4-Pole
⑥	T2: Terminal Box Type	Blank: Lead Wire Type
⑦	Gear Ratio and Shaft Type	Number: Gear Ratio for Combination Types A: Round Shaft Type
⑧	A: Imperial	

Product Line

Combination Type

Motor and gearhead are delivered pre-assembled. The combination of motors and gearheads can be changed, and they are also available separately. In addition, the gearhead can be removed and the assembly position can be changed in 90° increments.



Combination Type

Lead wire Type

Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Price
6 W (1/125 HP)	Single-Phase 110/115 VAC	2RK6UA-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$124.00
			25, 30, 36	\$130.00
			50, 60, 75, 90, 100, 120, 150, 180	\$137.00
	Single-Phase 220/230 VAC	2RK6UC-□A	250, 300, 360	\$183.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$127.00
			25, 30, 36	\$133.00
15 W (1/50 HP)	Single-Phase 110/115 VAC	3RK15UA-□A	50, 60, 75, 90, 100, 120, 150, 180	\$140.00
			250, 300, 360	\$186.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$135.00
	Single-Phase 220/230 VAC	3RK15UC-□A	25, 30, 36	\$141.00
			50, 60, 75, 90, 100, 120, 150, 180	\$148.00
			250, 300, 360	\$192.00
25 W (1/30 HP)	Single-Phase 110/115 VAC	4RK25UA-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$137.00
			25, 30, 36	\$143.00
			50, 60, 75, 90, 100, 120, 150, 180	\$150.00
	Single-Phase 220/230 VAC	4RK25UC-□A	250, 300, 360	\$194.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$144.00
			25, 30, 36	\$150.00
40 W (1/19 HP)	Single-Phase 110/115 VAC	5RK40UA-□A	50, 60, 75, 90, 100, 120, 150, 180	\$157.00
			250, 300, 360	\$204.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$148.00
	Single-Phase 220/230 VAC	5RK40UC-□A	25, 30, 36	\$154.00
			50, 60, 75, 90, 100, 120, 150, 180	\$161.00
			250, 300, 360	\$208.00
60 W (1/12 HP)	Single-Phase 110/115 VAC	5RK60UA-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$173.00
			25, 30, 36	\$180.00
			50, 60, 75, 90, 100, 120, 150, 180	\$187.00
	Single-Phase 220/230 VAC	5RK60UC-□A	250, 300	\$265.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$177.00
			25, 30, 36	\$184.00
90 W (1/8 HP)	Single-Phase 110/115 VAC	5RK90UA-□A	50, 60, 75, 90, 100, 120, 150, 180	\$191.00
			250, 300	\$269.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$228.00
	Single-Phase 220/230 VAC	5RK90UC-□A	25, 30, 36, 50, 60, 75, 90, 100	\$239.00
			120, 150, 180	\$249.00
			250, 300	\$283.00
90 W (1/8 HP)	Single-Phase 110/115 VAC	5RK90UA-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$246.00
			25, 30, 36, 50, 60	\$266.00
			75, 90, 100, 120, 150, 180	\$276.00
	Single-Phase 220/230 VAC	5RK90UC-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$251.00
			25, 30, 36, 50, 60	\$271.00
			75, 90, 100, 120, 150, 180	\$281.00

The following items are included with each product.
Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

● A number indicating the gear ratio is specified where the box □ is located in the product name.

◇ Terminal Box Type

Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Price
25 W (1/30 HP)	Single-Phase 110/115 VAC	4RK25UAT2-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$165.00
			25, 30, 36	\$171.00
			50, 60, 75, 90, 100, 120, 150, 180	\$178.00
	Single-Phase 220/230 VAC	4RK25UCT2-□A	250, 300, 360	\$225.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$169.00
			25, 30, 36	\$175.00
Single-Phase 110/115 VAC		5RK40UAT2-□A	50, 60, 75, 90, 100, 120, 150, 180	\$182.00
			250, 300, 360	\$229.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$195.00
40 W (1/19 HP)	Single-Phase 220/230 VAC	5RK40UCT2-5A	25, 30, 36	\$202.00
			50, 60, 75, 90, 100, 120, 150, 180	\$209.00
			250, 300	\$287.00
	Single-Phase 110/115 VAC	5RK40UAT2-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$198.00
			25, 30, 36	\$205.00
			50, 60, 75, 90, 100, 120, 150, 180	\$212.00
60 W (1/12 HP)	Single-Phase 220/230 VAC	5RK60UCT2-□A	250, 300	\$290.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$249.00
			25, 30, 36, 50, 60, 75, 90, 100	\$260.00
	Single-Phase 110/115 VAC	5RK60UAT2-□A	120, 150, 180	\$270.00
			250, 300	\$304.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$253.00
90 W (1/8 HP)	Single-Phase 220/230 VAC	5RK90UCT2-□A	25, 30, 36, 50, 60	\$264.00
			120, 150, 180	\$274.00
			250, 300	\$308.00
	Single-Phase 110/115 VAC	5RK90UAT2-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$268.00
			25, 30, 36, 50, 60	\$288.00
			75, 90, 100, 120, 150, 180	\$298.00
Single-Phase 220/230 VAC	5RK90UCT2-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$272.00	
		25, 30, 36, 50, 60	\$292.00	
		75, 90, 100, 120, 150, 180	\$302.00	

The following items are included with each product.
 Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

● Round Shaft Type

◇ Lead wire Type

Output Power	Power Supply Voltage	Product Name	List Price
6 W (1/125 HP)	Single-Phase 110/115 VAC	2RK6A-UA	\$67.00
	Single-Phase 220/230 VAC	2RK6A-UC	\$70.00
15 W (1/50 HP)	Single-Phase 110/115 VAC	3RK15A-UA	\$73.00
	Single-Phase 220/230 VAC	3RK15A-UC	\$75.00
25 W (1/30 HP)	Single-Phase 110/115 VAC	4RK25A-UA	\$81.00
	Single-Phase 220/230 VAC	4RK25A-UC	\$85.00
40 W (1/19 HP)	Single-Phase 110/115 VAC	5RK40A-UA	\$98.00
	Single-Phase 220/230 VAC	5RK40A-UC	\$102.00
60 W (1/12 HP)	Single-Phase 110/115 VAC	5RK60A-UA	\$116.00
	Single-Phase 220/230 VAC	5RK60A-UC	\$120.00
90 W (1/8 HP)	Single-Phase 110/115 VAC	5RK90A-UA	\$133.00
	Single-Phase 220/230 VAC	5RK90A-UC	\$138.00

The following items are included with each product.
 Motor, Capacitor, Capacitor Cap, Operating Manual

◇ Terminal Box Type

Output Power	Power Supply Voltage	Product Name	List Price
25 W (1/30 HP)	Single-Phase 110/115 VAC	4RK25A-UAT2	\$102.00
	Single-Phase 220/230 VAC	4RK25A-UCT2	\$106.00
40 W (1/19 HP)	Single-Phase 110/115 VAC	5RK40A-UAT2	\$120.00
	Single-Phase 220/230 VAC	5RK40A-UCT2	\$123.00
60 W (1/12 HP)	Single-Phase 110/115 VAC	5RK60A-UAT2	\$137.00
	Single-Phase 220/230 VAC	5RK60A-UCT2	\$141.00
90 W (1/8 HP)	Single-Phase 110/115 VAC	5RK90A-UAT2	\$155.00
	Single-Phase 220/230 VAC	5RK90A-UCT2	\$159.00

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

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● A number indicating the gear ratio is specified where the box □ is located in the product name.