**Standard AC Motors** 

# Electromagnetic **Brake Motors**

Overview

Three-Phase Induction Motors

Induction Motors

Reversible Motors

Electromagnetic **Brake 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** 

# **Electromagnetic Brake Motors**



- Power Off Activated Type Electromagnetic Brake Equipped
- Ideal for Applications Required Load Holding
- Hypoid Gear Right Angle Type is Available
- Compatible with Gearheads



See Full Product Details Online www.orientalmotor.com

- Manual
- Specifications
- Dimensions

- CAD
- Characteristics
- Connection and Operation

#### Features of Electromagnetic Brake Motors

 Power Off Activated Type Electromagnetic Brake Equipped

An AC power off activated type electromagnetic brake is equipped to allow the motor to stop instantaneously when the power is cut off, while still holding the load in position.

#### Ideal for Applications Required Load Holding

This configuration is ideal for vertical applications in which the load must be held.

## ■Types of Electromagnetic Brake Motors

# KII Series

Series

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#### New Global Standard

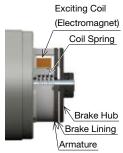
With a high performance gearhead built in, it is the new global standard for standard AC motors.

 Equipped with a High-Performance Gearhead

#### Features, Product Line

# Power Off Activated Type Electromagnetic Brake Equipped

An AC power off activated type electromagnetic brake is equipped. When the power source is turned OFF, the motor stops instantaneously and holds the load.



#### [Structural Drawing]

#### Product Line

Frame Size	□60 mm (2.36 in.)~□90 mm (3.54 in.)
Output Power	6 W (1/125 HP)∼90 W (1/8 HP)
Туре	Parallel Shaft, Round Shaft Type
Voltage	Single-Phase 110/115 VAC Single-Phase 220/230 VAC

#### **BH** Series



#### Smallest Frame Size among 200 W (1/4 HP) Motors

These motors achieve a high output of 200 W (1/4 HP) with a frame size of 104 mm (4.09 in.).

- Hypoid Gear Right Angle Type is Available.
- "Combination Type" for Easy Installation
- Conforms to Standards and Global Voltage Specifications

#### Tapped Hole at the Output Shaft End

#### Lineup

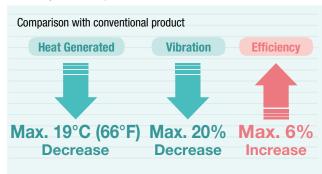
Frame Size	□104 mm (□4.09 in.)
Output Power	200 W (1/4 HP)
Туре	Right-Angle, Hollow Shaft Type, Right-Angle, Solid Shaft Type, Parallel Shaft Type, Round Shaft Type
Voltage	Three-Phase 220/230 VAC Single-Phase 110/115 VAC Single-Phase 220/230 VAC

#### Features of the KII Series

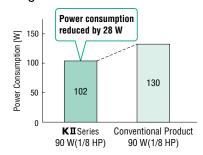
#### **Excellent Motor Performance**

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.

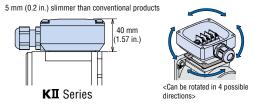


#### Energy Savings



#### 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.



#### IP66 Compliant Drip-proof Specification

The seal structure for the motor, gearhead and terminal box components has been strengthened. The terminal box type is compliant with the IP66 degree of protection.

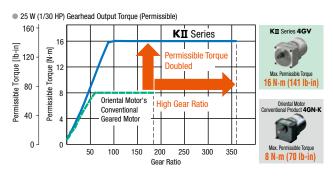
The IP indication that shows the watertight and dust-resistant performance are specified under IEC 60529 and IEC 60034-5.

Main Specifications Material Case and terminal box: Aluminum Output shaft: S45C Screws: Stainless steel (externally facing screws only) Surface Treatment Case and terminal box: Painted (excluding installation surface)

#### Equipped with a High-Performance Gearhead

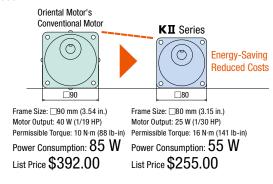
#### High Permissible Torque

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



#### ♦ 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.

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**Torque** Motors

IP67 Watertight. Dust-Resistan

Brake Pack

AC Speed Control Motors

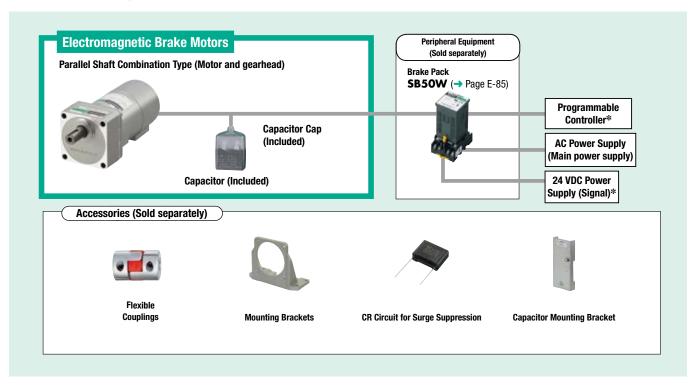
AC input

## ■ Product Line of Electromagnetic Brake Motors

Series			Motor Frame Size, Output Power							
	Voltage (VAC)	Туре	□60 mm (□2.36 in.)	□70 mm (□2.76 in.)	□80 mm (□3.15 in.)		□90 mm (□3.54 in.)		□104 mm (□4.09 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)	200 W (1/4 HP)	
KT 0. t.	Single-Phase 110/115 Single-Phase 220/230	Terminal Box Type				•	•	•		
<b>KII</b> Series		Lead Wire / Cable	•	•	•	•	•	•		
<b>BH</b> Series	Single-Phase 110/115 Single-Phase 220/230 Three-Phase 220/230	Terminal Box Type							•	

## System Configuration

\*Not supplied.



#### Product Number

#### ●KII Series

**○Parallel Shaft Combination Type** 

#### 

3 K K	40	UA	<u> M</u>	12 -	100	A	<u> </u>	K	<u></u>	40	A	- UA	M	12
1 2 3	4	(5)	6	7	8	9	1	2	3	4	8	(5)	6	7

1	Motor Frame Size	<b>2</b> : 60 mm (2.36 in.) <b>3</b> : 70 mm (2.76 in.) <b>4</b> : 80 mm (3.15 in.) <b>5</b> : 90 mm (3.54 in.)					
2	Product Name	R: Reversible Motor					
3	Series Name	K: KII Series					
4	Output Power	(Example) <b>40</b> : 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	M: Type with a Power Off Activated Electromagnetic Brake						
7	T2: Terminal Box Type Blank:	Lead Wire Type or Cable Type					
8	Gear Ratio and Shaft Type	Number: Gear Ratio for Combination Types A: Round Shaft Type					
9	A: Imperial						

#### BH Series

# BH I 6 2 F M T - 100 RH

1	23	4	(5)	6	7	8	9

1	Series	BH: BH Series
2	Motor Type	I: Induction Motor
3	Motor Frame Size	<b>6</b> : 104 mm (4.09 in.)
4	Output Power (W)	(Example) 2: 200 W (1/4 HP)
(5)	Power Supply Voltage	<b>S</b> : Three-Phase 220/230 VAC <b>F</b> : Single-Phase 110/115 VAC <b>E</b> : Single-Phase 220/230 VAC
6	M: Power Off Activated Type Electron	agnetic Brake
7	T: Terminal Box Type	
8	Gear Ratio, Motor Shaft Type	A: Round Shaft Type Number: Gear Ratio of Combination Type
9	Type of Gearhead (Combination type only)	RH: Right-Angle, Hollow Shaft Type RA: Right-Angle, Solid Shaft Type Blank: Parallel Shaft Type

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#### Product Line

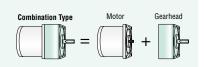
#### ● KII Series Combination Type

#### 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  $90^{\circ}$  increments.



#### 

Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Pric
			5, 6, <b>7.</b> 5, 9, 12.5, 15, 18	\$199.0
CW	Cinala Dhana 110/115 VAO	2RK6UAM-□A	<b>25</b> , <b>30</b> , <b>36</b>	\$205.0
	Single-Phase 110/115 VAC	2KKOUAMA	50, 60, 75, 90, 100, 120, 150, 180	\$212.0
6 W			250, 300, 360	\$258.0
(1/125 HP)			5, 6, <b>7.</b> 5, 9, 12.5, 15, 18	\$201.0
(.,.20 )	0'		25, 30, 36	\$207.0
	Single-Phase 220/230 VAC	2RK6UCM-□A	50, 60, 75, 90, 100, 120, 150, 180	\$214.0
			250, 300, 360	\$260.0
			5, 6, 7.5, 9, 12.5, 15, 18	\$210.0
			25, 30, 36	\$216.0
	Single-Phase 110/115 VAC	3RK15UAM-□A	50, 60, 75, 90, 100, 120, 150, 180	\$223.0
15 W			250, 300, 360	\$267.0
(1/50 HP)			5, 6, 7.5, 9, 12.5, 15, 18	\$212.0
(1/30 HF)			25, 30, 36	\$218.0
	Single-Phase 220/230 VAC	3RK15UCM-□A	50, 60, 75, 90, 100, 120, 150, 180	\$225.0
			250, 300, 360	\$269.0
			5, 6, 7.5, 9, 12.5, 15, 18	\$242.0
			25, 30, 36	\$248.0
	Single-Phase 110/115 VAC	4RK25UAM-□A	50, 60, 75, 90, 100, 120, 150, 180	\$255.0
25 W			250, 300, 360	\$302.0
(1/30 HP)		4RK25UCM-□A	5, 6, 7.5, 9, 12.5, 15, 18	\$245.0
(1/00 111 )	Single-Phase 220/230 VAC		25, 30, 36	\$251.0
			50, 60, 75, 90, 100, 120, 150, 180	\$251.0
			250, 300, 360	\$305.0
			5, 6, 7.5, 9, 12.5, 15, 18	\$283.0
		5RK40UAM-□A	25, 30, 36	\$290.0
	Single-Phase 110/115 VAC		50, 60, 75, 90, 100, 120, 150, 180	
40.14			250, 300	\$297.0 \$375.0
40 W			*	
(1/19 HP)			5, 6, 7.5, 9, 12.5, 15, 18	\$286.0
	Single-Phase 220/230 VAC	5RK40UCM-□A	25, 30, 36	\$293.0
			50, 60, 75, 90, 100, 120, 150, 180	\$300.0
			250, 300	\$378.0
			5, 6, 7.5, 9, 12.5, 15, 18	\$354.0
	Single-Phase 110/115 VAC	5RK60UAM-□A	25, 30, 36, 50, 60, 75, 90, 100	\$365.0
	-		120, 150, 180	\$375.0
60 W			250, 300	\$409.0
(1/12 HP)			5, 6, 7.5, 9, 12.5, 15, 18	\$359.0
	Single-Phase 220/230 VAC	5RK60UCM-□A	25, 30, 36, 50, 60, 75, 90, 100	\$370.0
			120, 150, 180	\$380.0
			250, 300	\$414.0
			5, 6, 7.5, 9, 12.5, 15, 18	\$373.0
	Single-Phase 110/115 VAC	5RK90UAM-□A	25, 30, 36, 50, 60	\$393.0
90 W			75, 90, 100, 120, 150, 180	\$403.0
(1/8 HP)			5, 6, <b>7.</b> 5, <b>9</b> , 1 <b>2.</b> 5, 15, 18	\$378.0
	Single-Phase 220/230 VAC	5RK90UCM-□A	25, 30, 36, 50, 60	\$398.0
			<i>7</i> 5, 90, 100, 120, 150, 180	\$408.0

The following items are included with each product.

Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

#### 

Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Price
			5, 6, 7.5, 9, 12.5, 15, 18	\$304.00
	Cinale Phone 110/115 VAC	5RK40UAMT2-□A	25, 30, 36	\$311.00
	Single-Phase 110/115 VAC	SRR400AMI2A	50, 60, 75, 90, 100, 120, 150, 180	\$318.00
40 W			250, 300	\$396.00
(1/19 HP)			5, 6, <b>7.</b> 5, 9, 12.5, 15, 18	\$307.00
	Circle Dhara 000/000 VAO	EDIZACIJENTO DA	25, 30, 36	\$314.00
	Single-Phase 220/230 VAC	5RK40UCMT2-□A	50, 60, 75, 90, 100, 120, 150, 180	\$321.00
			250, 300	\$399.00
			5, 6, 7.5, 9, 12.5, 15, 18	\$375.00
	Single-Phase 110/115 VAC	5RK60UAMT2-□A	25, 30, 36, 50, 60, 75, 90, 100	\$386.00
			120, 150, 180	\$396.00
60 W			250, 300	\$430.00
(1/12 HP)			5, 6, <b>7.</b> 5, 9, 12.5, 15, 18	\$380.00
	Single-Phase 220/230 VAC	5RK60UCMT2-□A	25, 30, 36, 50, 60, 75, 90, 100	\$391.00
		SKROUUCM12-LA	120, 150, 180	\$401.00
			250, 300	\$435.00
			5, 6, <b>7.</b> 5, 9, 12.5, 15, 18	\$394.00
	Single-Phase 110/115 VAC	5RK90UAMT2-□A	25, 30, 36, 50, 60	\$414.00
90 W			75, 90, 100, 120, 150, 180	\$424.00
(1/8 HP)			5, 6, 7.5, 9, 12.5, 15, 18	\$399.00
	Single-Phase 220/230 VAC	5RK90UCMT2-□A	25, 30, 36, 50, 60	\$419.00
			75, 90, 100, 120, 150, 180	\$429.00

- The following items are included with each product.

Motor, Gearhead, Capacitor, Capacitor Cap, Installation Screws, Parallel Key, Operating Manual

#### ● KII Series Round Shaft Type

#### ♦ Lead Wire Type/Cable Type

Output Power	Power Supply Voltage	Product Name	List Price
6 W	Single-Phase 110/115 VAC	2RK6A-UAM	\$142.00
(1/125 HP)	Single-Phase 220/230 VAC	2RK6A-UCM	\$144.00
15 W	Single-Phase 110/115 VAC	3RK15A-UAM	\$148.00
(1/50 HP)	Single-Phase 220/230 VAC	3RK15A-UCM	\$150.00
25 W	Single-Phase 110/115 VAC	4RK25A-UAM	\$179.00
(1/30 HP)	Single-Phase 220/230 VAC	4RK25A-UCM	\$182.00
40 W	Single-Phase 110/115 VAC	5RK40A-UAM	\$208.00
(1/19 HP)	Single-Phase 220/230 VAC	5RK40A-UCM	\$211.00
60 W	Single-Phase 110/115 VAC	5RK60A-UAM	\$242.00
(1/12 HP)	Single-Phase 220/230 VAC	5RK60A-UCM	\$247.00
90 W	Single-Phase 110/115 VAC	5RK90A-UAM	\$260.00
(1/8 HP)	Single-Phase 220/230 VAC	5RK90A-UCM	\$265.00

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

#### 

Output Power	Power Supply Voltage	Product Name	List Price
40 W	Single-Phase 110/115 VAC	5RK40A-UAMT2	\$229.00
(1/19 HP)	Single-Phase 220/230 VAC	5RK40A-UCMT2	\$232.00
60 W	Single-Phase 110/115 VAC	5RK60A-UAMT2	\$263.00
(1/12 HP)	Single-Phase 220/230 VAC	5RK60A-UCMT2	\$268.00
90 W	Single-Phase 110/115 VAC	5RK90A-UAMT2	\$281.00
(1/8 HP)	Single-Phase 220/230 VAC	5RK90A-UCMT2	\$286.00

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### **Electromagnetic Brake Motors**

#### BH Series

**Combination Type** 

The combination type comes with a motor and gearhead 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, Right-Angle Shaft

Output Power	Туре	Power Supply Voltage	Product Name	Gear Ratio	List Price
		Three-Phase 220/230 VAC	BHI62SMT-□RH	5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36	\$693.00
		THIEE-FHASE 220/230 VAG	впіо23Мі-⊔кп	50, 60, 75, 90, 100, 120, 150, 180	\$713.00
	Hollow Shaft	Single-Phase 110/115 VAC	BHI62FMT-□RH	5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36	\$686.00
	HUIIUW SHAIL	Single-rhase 110/113 VAC	ВПІО2ГМІ-⊔КП	50, 60, 75, 90, 100, 120, 150, 180	\$706.00
		Single-Phase 220/230 VAC	BHI62EMT-□RH	5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36	\$693.00
200 W		Sillyle-Filase 220/230 VAG	DI IIQZEMII KII	50, 60, 75, 90, 100, 120, 150, 180	\$713.00
(1/4 HP)		Three-Phase 220/230 VAC	BHI62SMT-□RA	5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36	\$687.00
		THIEE-FHASE 220/230 VAG	впіо2эмі-⊔ка	50, 60, 75, 90, 100, 120, 150, 180	\$707.00
	Solid Shaft	Single-Phase 110/115 VAC	BHI62FMT-□RA	5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36	\$680.00
	Solid Stiait	Single-rhase 110/113 VAC	DNIQZFMI*⊔KA	50, 60, 75, 90, 100, 120, 150, 180	\$700.00
		Cingle Phone 220/220 VAC	BHI62EMT-□RA	5, 6, 7.5, 9, 12.5, 15, 18, 25, 30, 36	\$687.00
		Single-Phase 220/230 VAC BHI62EMT-□RA	50, 60, 75, 90, 100, 120, 150, 180	\$707.00	

The following items are included with each product. Motor, Gearhead, Capacitor\*, Capacitor Cap\*, Parallel Key, Operating Manual \*Only for single-phase motors

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Output Power	Power Supply Voltage	Product Name	Gear Ratio	List Price
		BHI62SMT-□	3, 3.6, 5, 6, 7.5, 9	\$632.00
	Three-Phase 220/230 VAC		12.5, 15, 18, 25, 30, 36	\$641.00
			50, 60, 75, 90, 100, 120, 150, 180	\$651.00
000 W	Single-Phase 110/115 VAC	BHI62FMT-□	3, 3.6, 5, 6, 7.5, 9	\$625.00
200 W (1/4 HP)			12.5, 15, 18, 25, 30, 36	\$634.00
(1/4 111 )			50, 60, 75, 90, 100, 120, 150, 180	\$644.00
	Single-Phase 220/230 VAC	BHI62EMT-□	3, 3.6, 5, 6, 7.5, 9	\$632.00
			12.5, 15, 18, 25, 30, 36	\$641.00
			50, 60, 75, 90, 100, 120, 150, 180	\$651.00

The following items are included with each product. Motor, Gearhead, Capacitorᡮ, Capacitor Capᡮ, Installation Screws, Parallel Key, Operating Manual \*Only for single-phase motors

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	Output Power	Power Supply Voltage	Product Name	List Price
	000 W	Three-Phase 220/230 VAC	BHI62SMT-A	\$481.00
	200 W (1/4 HP)	Single-Phase 110/115 VAC	BHI62FMT-A	\$474.00
	(1/4111)	Single-Phase 220/230 VAC	BHI62EMT-A	\$481.00

The following items are included with each product.-Motor, Capacitor\*, Capacitor Cap\*, Operating Manual \*Only for single-phase motors

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.

