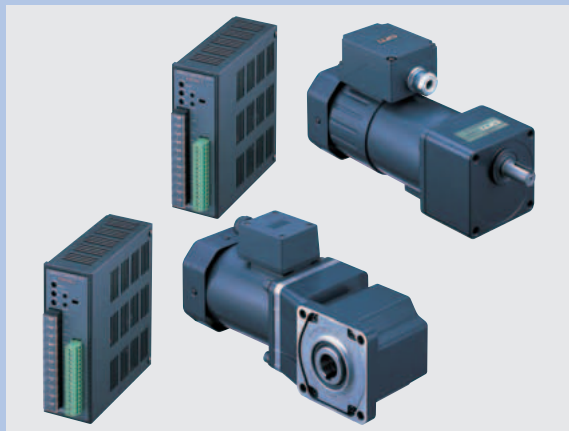


AC Speed Control Motors 200 W (1/4 HP) BHF Series

For details on this product please refer to our website.
www.orientalmotor.com/catalog



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



View Expanded Product Information, Specifications, CAD, Accessories & more online. Visit www.orientalmotor.com/catalog or use the QR code and select "BHF Series".

- High power inverter package with 200 W (1/4 HP) output power.
- The dedicated inverter means excellent speed control can be easily achieved.
- An electromagnetic brake type product line is also available, which is perfect for vertical operation.

Features

Excellent Speed Stability

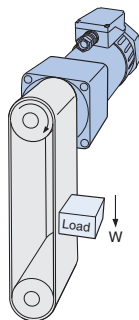
The combination of a dedicated speed controller with a motor achieves excellent speed stability with a fluctuation of only $\pm 3\%$. The speed controller is already optimized for use with the motor, so detail adjustments are not required to achieve accurate speed control.

Speed Control during Vertical Drive

The motor with an electromagnetic brake enables stable speed control even during vertical drive (gravitational operation). The electromagnetic brake is automatically controlled by the speed controller.

Note

- Regeneration energy generates during vertical drive. Be sure to use a regeneration unit (sold separately).



Automatic Control of an Electromagnetic Brake

The AC speed control system with an electromagnetic brake allows automatic on/off control of the electromagnetic brake (power off activated type) on the speed controller side. There is no need to supply a separate power supply or program a control sequence.

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

The **BHF** Series achieves an output of 200 W (1/4 HP) the highest among Oriental Motor's standard AC motors, with the smallest frame size [104 mm (4.09 in.) square] in that class. This allows for a reduction in the size of your equipment.

Wiring Length of up to 50 m (164 ft.)

The wiring distance between the motor and speed controller can be extended to a maximum of 50 m (164 ft.). (A motor cable is not supplied with the product. Please provide the appropriate cable.)

Full-Range Functionality

The **BHF** Series offers a variety of functions such as alarm output, speed monitor output and individual acceleration/deceleration setting. The speed controller also has a built-in I/O power supply.

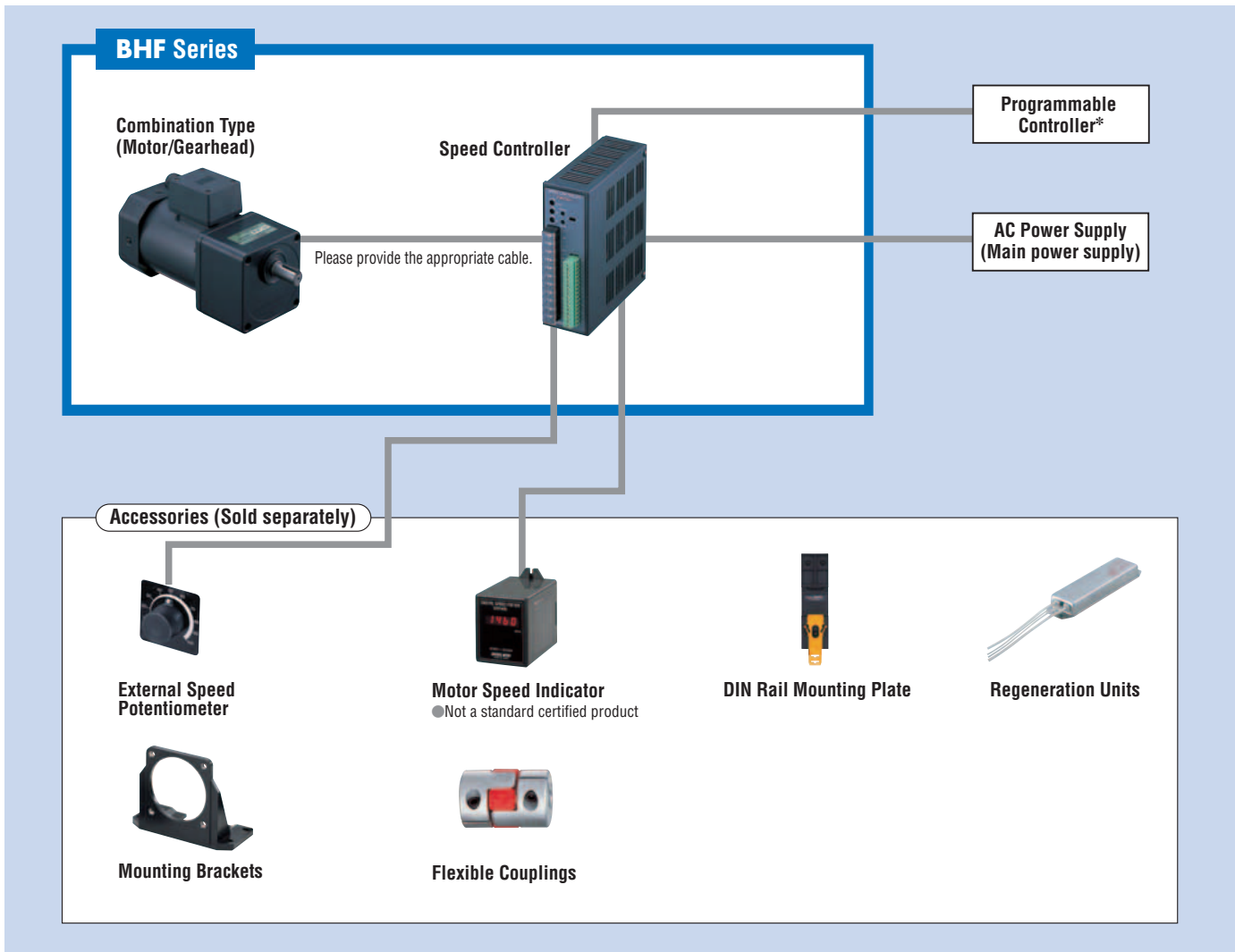
Wide Product Variations

Pre-assembled gearmotors are available in a right-angle shaft type equipped with a hypoid gear (hollow shaft, solid shaft) and a parallel shaft type. A wide range of gear ratios are available. An electromagnetic brake type is also available.

Global Specifications

The **BHF** Series conforms to international power-supply voltage specifications, including single-phase 100-115 VAC, single-phase 200-230 VAC and three-phase 200-230 VAC. All units comply with the UL/CSA standards and bear the CE mark as proof of compliance with the Low Voltage Directive and EMC Directive.

System Configuration



*Not supplied

Product Number

BHF 6 2 A M T - 100 RH

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①	Series	BHF: BHF Series
②	Motor Frame Size	6: 104 mm (4.09 in.)
③	Output Power (W)	2: 200 W (1/4 HP)
④	Power Supply Voltage	A: Single-Phase 100-115 VAC C: Single-Phase 200-230 VAC S: Three-Phase 200-230 VAC
⑤	Blank: Without Electromagnetic Brake M: With Electromagnetic Brake	
⑥	T: Terminal Box Type	
⑦	Gear Ratio, Motor Shaft Type	Number: Gear Ratio of Combination Type A: Round Shaft Type
⑧	Type of Gearhead (Combination type only)	Blank: Parallel Shaft Type RH: Right-Angle, Hollow Shaft Type RA: Right-Angle, Solid Shaft Type

Overview, Product Series

Brushless Motors

AC Input BMU

AC Input BLE

AC Input BLF

AC Input BXII

DC Input BLH

AC Speed Control Motors

DSC

BHF

Accessories

Installation

Product Line

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.

Speed Control Motor and Controller Package

◇ **Combination Type**

Type	Power Supply Voltage	Product Name	Gear Ratio	List Price
Combination Type with Right-Angle Hollow Shaft	Single-Phase 100-115 VAC	BHF62AT-□RH	5, 9, 15, 30	\$701.00
			50, 100, 180	\$721.00
	Single-Phase 200-230 VAC	BHF62CT-□RH	5, 9, 15, 30	\$701.00
			50, 100, 180	\$721.00
	Three-Phase 200-230 VAC	BHF62ST-□RH	5, 9, 15, 30	\$701.00
			50, 100, 180	\$721.00
Combination Type with Right-Angle Solid Shaft	Single-Phase 100-115 VAC	BHF62AT-□RA	5, 9, 15, 30	\$695.00
			50, 100, 180	\$715.00
	Single-Phase 200-230 VAC	BHF62CT-□RA	5, 9, 15, 30	\$695.00
			50, 100, 180	\$715.00
	Three-Phase 200-230 VAC	BHF62ST-□RA	5, 9, 15, 30	\$695.00
			50, 100, 180	\$715.00
Combination Type with Parallel Shaft	Single-Phase 100-115 VAC	BHF62AT-□	3, 5, 9	\$640.00
			15, 30	\$649.00
			50, 100, 180	\$659.00
	Single-Phase 200-230 VAC	BHF62CT-□	3, 5, 9	\$640.00
			15, 30	\$649.00
			50, 100, 180	\$659.00
	Three-Phase 200-230 VAC	BHF62ST-□	3, 5, 9	\$640.00
			15, 30	\$649.00
			50, 100, 180	\$659.00

The following items are included with each product.
 Motor, Speed Controller, Gearhead, Mounting Brackets for Speed Controller (with screws), Installation Screws*, Parallel Key, Operating Manual
 *For Combination Type with Parallel Shaft only

◇ **Round Shaft Type**

Power Supply Voltage	Product Name	List Price
Single-Phase 100-115 VAC	BHF62AT-A	\$489.00
Single-Phase 200-230 VAC	BHF62CT-A	\$489.00
Three-Phase 200-230 VAC	BHF62ST-A	\$489.00

The following items are included with each product.
 Motor, Speed Controller, Mounting Brackets for Speed Controller (with screws), Operating Manual

Speed Control Motor and Controller Package with Electromagnetic Brake

◇ **Combination Type**

Type	Power Supply Voltage	Product Name	Gear Ratio	List Price
Combination Type with Right-Angle Hollow Shaft	Single-Phase 100-115 VAC	BHF62AMT-□RH	5, 9, 15, 30	\$961.00
			50, 100, 180	\$981.00
	Single-Phase 200-230 VAC	BHF62CMT-□RH	5, 9, 15, 30	\$961.00
			50, 100, 180	\$981.00
	Three-Phase 200-230 VAC	BHF62SMT-□RH	5, 9, 15, 30	\$961.00
			50, 100, 180	\$981.00
Combination Type with Right-Angle Solid Shaft	Single-Phase 100-115 VAC	BHF62AMT-□RA	5, 9, 15, 30	\$955.00
			50, 100, 180	\$975.00
	Single-Phase 200-230 VAC	BHF62CMT-□RA	5, 9, 15, 30	\$955.00
			50, 100, 180	\$975.00
	Three-Phase 200-230 VAC	BHF62SMT-□RA	5, 9, 15, 30	\$955.00
			50, 100, 180	\$975.00
Combination Type with Parallel Shaft	Single-Phase 100-115 VAC	BHF62AMT-□	3, 5, 9	\$900.00
			15, 30	\$909.00
			50, 100, 180	\$919.00
	Single-Phase 200-230 VAC	BHF62CMT-□	3, 5, 9	\$900.00
			15, 30	\$909.00
			50, 100, 180	\$919.00
	Three-Phase 200-230 VAC	BHF62SMT-□	3, 5, 9	\$900.00
			15, 30	\$909.00
			50, 100, 180	\$919.00

The following items are included with each product.
 Motor, Speed Controller, Gearhead, Mounting Brackets for Speed Controller (with screws), Installation Screws*, Parallel Key, Operating Manual
 *For Combination Type with Parallel Shaft only

◇ **Round Shaft Type**

Power Supply Voltage	Product Name	List Price
Single-Phase 100-115 VAC	BHF62AMT-A	\$749.00
Single-Phase 200-230 VAC	BHF62CMT-A	\$749.00
Three-Phase 200-230 VAC	BHF62SMT-A	\$749.00

The following items are included with each product.
 Motor, Speed Controller, Mounting Brackets for Speed Controller (with screws), Operating Manual

● A number indicating the gear ratio is entered where the box □ is located within the product name.

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

www.orientalmotor.com/catalog