Brushless Motors

BLH Series

Overview

AC Input BMU

AC Input BLE2

AC Input

BLH Series

DC Input BLH

DC Input BLV

Brushless Motors and Driver

BLH Series

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



- Combines a slim, high-power brushless motor with a 24 VDC board-type driver.
- Speed control range is 100 to 3000 r/min.
- Output power is 15 W to 100 W (1/50 HP to 1/8 HP).



See Full Product Details Online www.orientalmotor.com

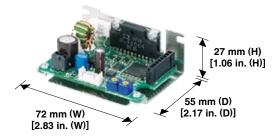
- Manual
- Specifications
- Dimensions

- CAD
- Characteristics
- Connection and Operation

Features

Compact Board-Type Driver

The product with an output of 15 to 50 W (1/50 to 1/15 HP) adopt a compact, board-type driver smaller than the size of a business card. This will help to reduce the size of your equipment.



The 100 W (1/8 HP) driver has dimensions of

71 mm (D) \times 131 mm (W) \times 37.5 mm (H) [2.80 in. (D) \times 5.16 in. (W) \times 1.48 in. (H)]

The compact driver is packed with a full range of functions.

- •Instantaneous stop •Speed control by potentiometer
- •Speed control by DC voltage
- •Acceleration/deceleration time setting •Alarm output

Speed Control Range

100 to 3000 r/min (speed ratio 30:1)

Wide Variety

The series offers a wide range of models from compact packages with a motor output of 15 W (1/50 HP), to larger ones producing a high output of 100 W (1/8 HP). Choose one that best suits your specific requirements.

IP65 Motor Structure*

The motor is protected against water intrusion, should water come into contact with the motor.

- * IP40 for 15 W (1/50 HP) motor
- The motor must not be washed with water, and is not suitable for use in an environment where it constantly comes into contact with water.

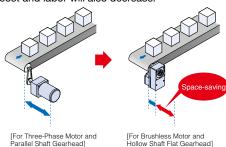
Long Life Gearhead Rating of 10000 Hours*

The rated life of the parallel shaft gearhead and hollow shaft flat gearhead is 10000 hours. The parallel shaft gearhead achieves a rated life of twice as long as that of a conventional gearhead.

- *5000 hours for gearhead equipped with 15 W (1/50 HP) geared motor.
- The 50 W (1/15 HP) and 100 W (1/8 HP) parallel shaft gearhead has a tapped hole at the output shaft end.

Features of Hollow Shaft Flat Gearhead

The output shaft can be coupled directly to a driven shaft without using a coupling, which allows you to reduce the size and installation space of your equipment. Since no shaft-coupling parts are needed, the parts cost and labor will also decrease.

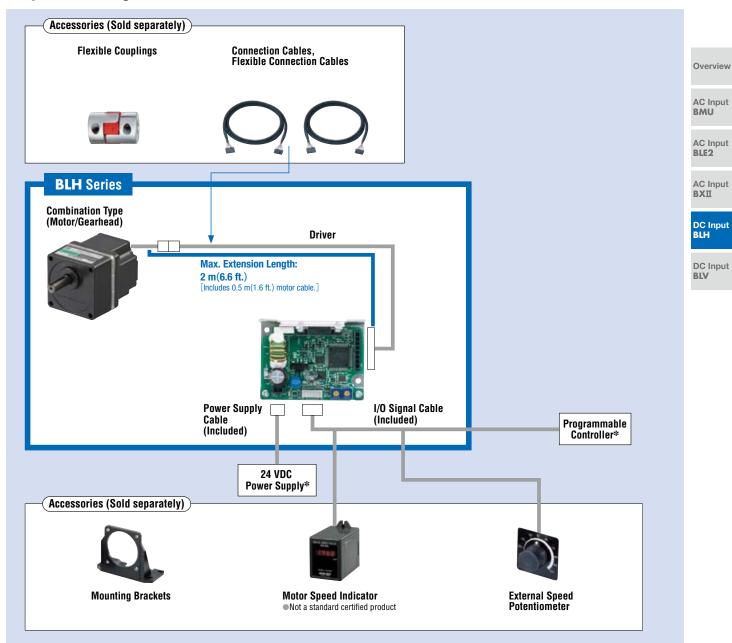


While the permissible torque of the parallel shaft gearhead saturates at high gear ratios, the hollow shaft flat gearhead enables the motor torque to be fully utilized.



[Frame Size 90 mm (3.54 in.)]

■System Configuration



* Not supplied

Technical Support

Product Number

BLH 2 30 K C - 5 FR

(2)

(3) (4) (5)

| | 1 | | | |
|-----|---|---|--|--|
| 1 | Series | BLH: BLH Series | | |
| 2 | Motor Frame Size | 0 : 42 mm (1.65 in.) 2 : 60 mm (2.36 in.) 4 : 80 mm (3.15 in.) | | |
| | | 5 : 90 mm (3.54 in.) | | |
| 3 | Output Power (W) | (Example) 30 : 30 W (1/25 HP) | | |
| 4 | Power Supply Voltage | K : 24 VDC | | |
| (5) | C: Cable Type | | | |
| 6 | Gear Ratio/Shaft Type Number: Gear ratio for combination types: 8 types from 5 to 200 Gear ratio for geared types: 7 types from 5 to 100 A: Round Shaft Type | | | |
| 7 | Blank: Combination Type – Parallel Shaft Gearhead FR: Combination Type – Hollow Shaft Flat Gearhead | | | |

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. **Geared Type** The geared type has an integrated motor and gearhead. The combination of motor and gearhead cannot be changed.

Geared Type/Combination Type - Parallel Shaft Gearhead

| Type | Output Power | Product Name | Gear Ratio | List Price |
|-------------|-------------------|--------------|---------------|------------|
| Geared Type | 15 W | BLH015K-□ | 5, 10, 15, 20 | \$359.00 |
| dealed Type | (1/50 HP) | | 30, 50 , 100 | \$366.00 |
| | 30 W (1/25 HP) | BLH230KC-□ | 5, 10, 15, 20 | \$413.00 |
| | | | 30, 50, 100 | \$422.00 |
| | | | 200 | \$431.00 |
| Combination | 50 W (1/15 HP) | BLH450KC-□ | 5, 10, 15, 20 | \$452.00 |
| Type | | | 30, 50, 100 | \$460.00 |
| турс | (1/13111) | | 200 | \$470.00 |
| | 100 W | BLH5100KC-□ | 5, 10, 15, 20 | \$550.00 |
| | 100 W (1/8 HP) | | 30, 50, 100 | \$561.00 |
| | | | 200 | \$572.00 |

The following items are included with each product.-Motor, Driver, Gearhead, I/O Signal Cable, Power Supply Cable, Installation Screws*1, Parallel Key*2, Operating Manual

*1 Only for combination type

*2 Only for the products with a key slot on the output shaft

Round Shaft Type

| Output Power | Product Name | List Price |
|----------------|--------------|------------|
| 15 W (1/50 HP) | BLH015K-A | \$264.00 |
| 30 W (1/25 HP) | BLH230KC-A | \$287.00 |
| 50 W (1/15 HP) | BLH450KC-A | \$311.00 |
| 100 W (1/8 HP) | BLH5100KC-A | \$371.00 |

The following items are included with each product.-Motor, Driver, I/O Signal Cable, Power Supply Cable, Operating Manual

Combination Type – Hollow Shaft Flat Gearhead

| Output Power | Product Name | Gear Ratio | List Price |
|-------------------|---------------|---------------|------------|
| 00.14 | BLH230KC-□FR | 5, 10, 15, 20 | \$471.00 |
| 30 W (1/25 HP) | | 30, 50, 100 | \$483.00 |
| (1/23111) | | 200 | \$495.00 |
| FO.W. | BLH450KC-□FR | 5, 10, 15, 20 | \$544.00 |
| 50 W (1/15 HP) | | 30, 50, 100 | \$556.00 |
| (1/13 ПР) | | 200 | \$568.00 |
| 400 111 | BLH5100KC-□FR | 5, 10, 15, 20 | \$653.00 |
| 100 W (1/8 HP) | | 30, 50, 100 | \$665.00 |
| (1/0 HF) | | 200 | \$677.00 |

The following items are included with each product. Motor, Driver, Gearhead, I/O Signal Cable, Power Supply Cable, Installation Screws, Parallel Key, Safety Cover (with screws), Operating Manual

products, please either refer to our website or contact technical support or your nearest Oriental Motor sales office.

www.orientalmotor.com