

## BL180-H04-H

57mm Brushless DC Motor, 180W, 48V

1pc. - 240.00  
50pc. - 180.00



### **Product Features**

- *Brushless design for long life*
- *Low maintenance*
- *57 mm frame size*
- *Peak torque to 7.61 in-lb*
- *Hall signals for velocity feedback*
- *Compatible with BD10-H5-AH brushless drive*



## Description

The B180-H04-H is a three-phase brushless DC motor for use in velocity control applications. Paired with a BD10-H5-AH brushless DC drive this motor provides excellent performance over a wide speed range.

## Specifications

**Part Number:**

BL180-H04-H

**Rated Torque:**

3.80 in-lb

**Peak Torque:**

7.61 in-lb

**Rated Power:**

180 watts

**Rated Voltage:**

48 volts

**Rated Speed:**

4000 rpm

**Peak Speed:**

5000 rpm

**Rated Current:**

4.5 A rms

**Peak Current:**

9.0 A rms

**Torque Constant:**

0.77 in-lb/A

**Voltage Constant:**

6.45 V/krpm

**Armature Resistance:**

0.44 ohms

**Armature Inductance:**

0.54 mH

**Motor Length:**

4.74 inch

**Rotor Inertia:**

6.46E-03 oz-in-sec<sup>2</sup>

**Weight:**

3.75 lbs

**Storage Temperature:**

-20 to 70 °C

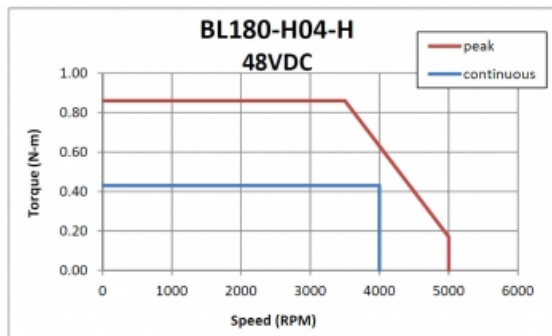
**Operating Temperature:**

0 to 40 °C

**Insulation Class:**

Class E (120 °C)

## Torque Curves



## Downloads

### Datasheet:

<http://s3.amazonaws.com/applied-motion-pdf/BL180-H04-H.pdf>


### Speed-Torque Curves:

 [speed torque curves 57mm BL180-H04-H updated 1-21-14.pdf](#)

### 2D Drawing:

 [BL180-H04-H\\_RevB.pdf](#)

### 3D Drawing:

 [BL180-H04\\_H.igs](#)

## Pricing

BL180-H04-H Part No. BL180-H04-H	
1pc.	\$240.00
25pc.	\$206.40
50pc.	\$180.00
100pc.	<a href="#">Request a Quote</a> for 100+ piece pricing.

## Products in the Series *Brushless DC Motors and Drives*

Number	Frame Size	Continuous Torque	Peak Torque	Motor Length	Rated Power	Rotor Inertia	1pc./50pc.
<a href="#">-255-001</a>	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
<a href="#">-255-002</a>	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
<a href="#">-255-003</a>	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
<a href="#">-255-004</a>	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
<a href="#">-255-005</a>	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
<a href="#">-260-001</a>	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
<a href="#">-260-002</a>	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
<a href="#">-260-003</a>	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
<a href="#">-260-004</a>	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
<a href="#">i0-H03-G</a>	42 mm	0.58	1.15	1.81	30	5.49E-04	\$120.00 / \$90.00
<a href="#">H03-GP005</a>	42 mm	2.38	4.77	4.41	30	0.00055	\$269.00 / \$269.00
<a href="#">H03-GP014</a>	42 mm	5.92	11.8	4.93	30	0.00055	\$296.00 / \$296.00
<a href="#">H03-GP019</a>	42 mm	8.28	16.6	4.93	30	0.00055	\$296.00 / \$296.00
<a href="#">H03-GP029</a>	42 mm	12.5	25.0	4.93	30	0.00055	\$296.00 / \$296.00
<a href="#">H03-GP051</a>	42 mm	20.5	41.0	5.45	30	0.00055	\$324.00 / \$324.00
<a href="#">H03-GP100</a>	42 mm	40.1	80.1	5.45	30	0.00055	\$324.00 / \$324.00
<a href="#">i0-H03-G</a>	42 mm	1.15	2.30	2.76	60	1.02E-03	\$160.00 / \$120.00
<a href="#">H03-GP005</a>	42 mm	4.77	9.56	5.36	60	0.001	\$309.00 / \$309.00
<a href="#">H03-GP014</a>	42 mm	11.8	23.7	5.87	60	0.001	\$336.00 / \$336.00
<a href="#">H03-GP019</a>	42 mm	16.6	33.1	5.87	60	0.001	\$336.00 / \$336.00
<a href="#">H03-GP051</a>	42 mm	41.0	82.0	6.39	60	0.001	\$364.00 / \$364.00
<a href="#">i0-H03-H</a>	57 mm	1.28	2.56	2.15	60	2.09E-03	\$160.00 / \$120.00
<a href="#">i0-H03-G</a>	42 mm	1.90	3.98	3.94	90	1.61E-03	\$200.00 / \$150.00
<a href="#">H03-GP005</a>	42 mm	8.25	16.4	6.54	90	0.0016	\$344.00 / \$344.00
<a href="#">H03-GP014</a>	42 mm	20.5	41.1	7.05	90	0.0016	\$374.00 / \$374.00
<a href="#">j0-H03-I</a>	80 mm	2.12	4.24	1.97	100	5.38E-03	\$200.00 / \$150.00
<a href="#">i0-H03-H</a>	57 mm	2.56	5.13	3.25	120	3.95E-03	\$200.00 / \$150.00
<a href="#">i0-H04-H</a>	57 mm	3.80	7.61	4.74	180	6.46E-03	\$240.00 / \$180.00
<a href="#">j0-H04-I</a>	80 mm	4.24	8.49	2.67	200	0.74	\$250.00 / \$187.50
<a href="#">j0-H04-I</a>	80 mm	6.37	12.75	3.31	300	1.53E-02	\$300.00 / \$225.00