

BL100-H03-I

80mm Brushless DC Motor, 100W, 24V

1pc. - 200.00
50pc. - 150.00



Product Features

- *Brushless design for long life*
- *Low maintenance*
- *80 mm frame size*
- *Peak torque to 4.24 in-lb*
- *Hall signals for velocity feedback*
- *Compatible with BD5-I6-AH brushless drive*



Description

The BL100-H03-I is a three-phase brushless DC motor for use in velocity control applications. Paired with a BD5-16-AH brushless DC drive this motor provides excellent performance over a wide speed range.

Specifications

Part Number:

BL100-H03-I

Rated Torque:

2.12 in-lb

Peak Torque:

4.24 in-lb

Rated Power:

100 watts

Rated Voltage:

24 volts

Rated Speed:

4000 rpm

Peak Speed:

4500 rpm

Rated Current:

5.0 A rms

Peak Current:

10.0 A rms

Torque Constant:

0.41 in-lb/A

Voltage Constant:

3.44 V/krpm

Armature Resistance:

0.18 ohms

Armature Inductance:

0.34 mH

Motor Length:

1.97 inch

Rotor Inertia:

5.38E-03 oz-in-sec²

Weight:

2.16 lbs

Storage Temperature:

-20 to 70 °C

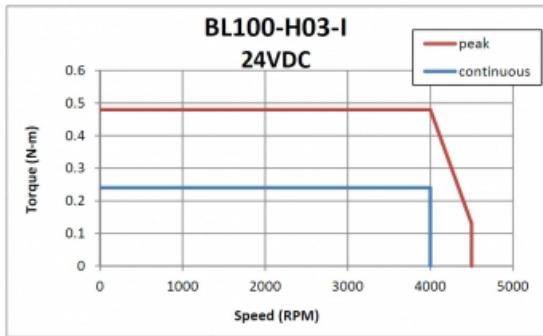
Operating Temperature:

0 to 40 °C

Insulation Class:

Class E (120 °C)

Torque Curves



Downloads


Datasheet:

<http://s3.amazonaws.com/applied-motion-pdf/BL100-H03-I.pdf>

Speed-Torque Curves:

 [speed torque curves 80mm BL100-H03-I updated 1-21-14.pdf](#)

2D Drawing:

 [BL100-H03-I_RevB.pdf](#)

3D Drawing:

 [BL100-H03-I.igs](#)

Pricing

	BL100-H03-I Part No. BL100-H03-I
1pc.	\$200.00
25pc.	\$172.00
50pc.	\$150.00
100pc.	Request a Quote 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.
-255-001	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
-255-002	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
-255-003	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
-255-004	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
-255-005	NA	NA	NA	NA	NA	NA	\$186.00 / \$139.50
-260-001	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
-260-002	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
-260-003	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
-260-004	NA	NA	NA	NA	NA	NA	\$223.00 / \$167.25
i0-H03-G	42 mm	0.58	1.15	1.81	30	5.49E-04	\$120.00 / \$90.00
H03-GP005	42 mm	2.38	4.77	4.41	30	0.00055	\$269.00 / \$269.00
H03-GP014	42 mm	5.92	11.8	4.93	30	0.00055	\$296.00 / \$296.00
H03-GP019	42 mm	8.28	16.6	4.93	30	0.00055	\$296.00 / \$296.00
H03-GP029	42 mm	12.5	25.0	4.93	30	0.00055	\$296.00 / \$296.00
H03-GP051	42 mm	20.5	41.0	5.45	30	0.00055	\$324.00 / \$324.00
H03-GP100	42 mm	40.1	80.1	5.45	30	0.00055	\$324.00 / \$324.00
i0-H03-G	42 mm	1.15	2.30	2.76	60	1.02E-03	\$160.00 / \$120.00
H03-GP005	42 mm	4.77	9.56	5.36	60	0.001	\$309.00 / \$309.00
H03-GP014	42 mm	11.8	23.7	5.87	60	0.001	\$336.00 / \$336.00
H03-GP019	42 mm	16.6	33.1	5.87	60	0.001	\$336.00 / \$336.00
H03-GP051	42 mm	41.0	82.0	6.39	60	0.001	\$364.00 / \$364.00
i0-H03-H	57 mm	1.28	2.56	2.15	60	2.09E-03	\$160.00 / \$120.00
i0-H03-G	42 mm	1.90	3.98	3.94	90	1.61E-03	\$200.00 / \$150.00
H03-GP005	42 mm	8.25	16.4	6.54	90	0.0016	\$344.00 / \$344.00
H03-GP014	42 mm	20.5	41.1	7.05	90	0.0016	\$374.00 / \$374.00
j0-H03-I	80 mm	2.12	4.24	1.97	100	5.38E-03	\$200.00 / \$150.00
i0-H03-H	57 mm	2.56	5.13	3.25	120	3.95E-03	\$200.00 / \$150.00
i0-H04-H	57 mm	3.80	7.61	4.74	180	6.46E-03	\$240.00 / \$180.00
j0-H04-I	80 mm	4.24	8.49	2.67	200	0.74	\$250.00 / \$187.50
j0-H04-I	80 mm	6.37	12.75	3.31	300	1.53E-02	\$300.00 / \$225.00