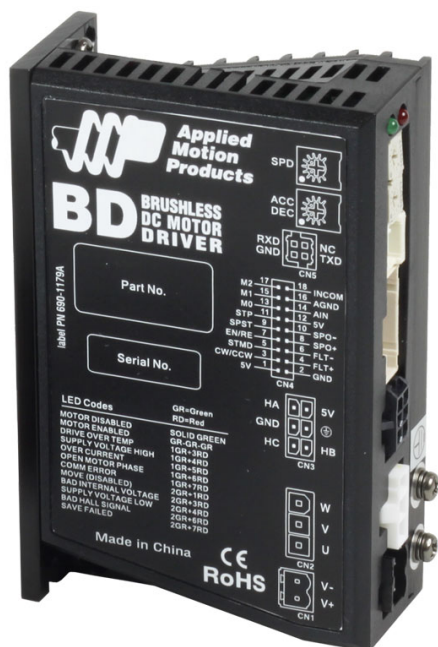


BD5-G1-AH

Brushless DC Drive for 30W 42mm motor

1pc. - \$186.00
50pc. - \$139.50


Product Features

- Velocity control
- Simple setup
- Compact design
- 1.75 A rms cont., 3.5 A rms peak
- Runs on 12-48 VDC
- 8 digital inputs, 1 analog input
- 2 digital outputs
- Performance-matched motors available



Description

The BD5-G1-AH is a compact and efficient drive for use with Applied Motion's BL030-H03-G series 42mm 30W brushless DC motors. It provides stable velocity control over a wide speed range. Motor speed can be controlled by an on-board trimpot, a 0-5 volt analog input, or via the drive's digital inputs. Dedicated stop and enable inputs are available, along with a dynamic braking feature that brings the motor to zero speed in a quick and controlled fashion. Each drive comes pre-configured for use with the matching brushless DC motor.

The mating I/O connector, populated with connector pins and 12" flying leads, is included with each drive. The mating DC power connector is also included.

The BL motors can plug directly into the BD drives. Extension cables are also available for longer distances between the drive and motor. Part number 3004-272-1M is a 1 meter extension cable and 3004-272-3M is a 3 meter extension cable.

Specifications

Model Number(s)	BD5-G1-AH
Part Number(s)	5000-255-001
Supply Voltage	12-48 VDC
Supply Voltage Type	DC
Control Modes	• Velocity Control
Output Current, Continuous	1.75 A rms
Output Current, Peak	3.5 A rms
Communication Ports	NA
Feedback	Halls
Setup Method	Switch / potentiometer
Digital Inputs	8
Digital Outputs	2
Analog Inputs	1 (0 to 5 Vdc, 12 bit)
Dimensions	3.9 x 2.6 x 1.2 inches
Weight	6.0 oz
Operating Temperature Range	0 to 100 °C
Ambient Temperature Range	0 to 40 °C
Ambient Humidity	90% max, non-condensing
Status LEDs	1 red, 1 green
Circuit Protection	• Short circuit • Over-voltage • Under-voltage • Over-temp

Software

Software Downloads	There is no software related to this product.
Sample Code	There are no sample code documents at this time.

Downloads

Manuals	 BD5-10 QuickSetup Guide 920-0066C.pdf  BD HardwareManual 920-0065D.pdf
Datasheet	 BLDC Datasheet 925-0013A.pdf
2D Drawing	 BLDC Controller RevA.pdf  BLDC Controller 3D-PDF.pdf
3D Drawing	 BD5 Drive SimpleModel.igs
Speed-Torque Curves	 BLDC speed-torque.pdf
Agency Approvals	There are no related agency approval documents at this time.
Application Notes	There are currently no Application Notes available for this product.

Pricing

BD5-G1-AH Part No. 5000-255-001	
1pc.	\$186.00
25pc.	\$159.96
50pc.	\$139.50
100pc.	Contact us for 100+ piece pricing.

Products in the Series *Brushless DC Motors and Drives*

* Closeout priced products are highlighted in green.

* Items with web only pricing are highlighted in yellow.

Part Number	Frame Size	Continuous Torque (in-lb)	Peak Torque (in-lb)	Motor Length (inch)	Rated Power (W)	Rotor Inertia (oz-in-sec ²)	1pc./50pc.
5000-255-001	NA	NA	NA	NA	NA	NA	\$186.00
5000-255-002	NA	NA	NA	NA	NA	NA	\$186.00
5000-255-003	NA	NA	NA	NA	NA	NA	\$186.00
5000-255-004	NA	NA	NA	NA	NA	NA	\$186.00
5000-255-005	NA	NA	NA	NA	NA	NA	\$186.00
5000-260-001	NA	NA	NA	NA	NA	NA	\$223.00
5000-260-002	NA	NA	NA	NA	NA	NA	\$223.00
5000-260-003	NA	NA	NA	NA	NA	NA	\$223.00
5000-260-004	NA	NA	NA	NA	NA	NA	\$223.00
BL030-H03-G	42 mm	0.58	1.15	1.81	30	5.49E-04	\$120.00
BL030-H03-GP005	42 mm	2.38	4.77	4.41	30	0.00055	\$269.00 / \$ 269.00
BL030-H03-GP014	42 mm	5.92	11.8	4.93	30	0.00055	\$296.00 / \$ 296.00
BL030-H03-GP019	42 mm	8.28	16.6	4.93	30	0.00055	\$296.00 / \$ 296.00
BL030-H03-GP029	42 mm	12.5	25.0	4.93	30	0.00055	\$296.00 / \$ 296.00
BL030-H03-GP051	42 mm	20.5	41.0	5.45	30	0.00055	\$324.00 / \$ 324.00
BL030-H03-GP100	42 mm	40.1	80.1	5.45	30	0.00055	\$324.00 / \$ 324.00
BL060-H03-G	42 mm	1.15	2.30	2.76	60	1.02E-03	\$160.00
BL060-H03-GP005	42 mm	4.77	9.56	5.36	60	0.001	\$309.00 / \$ 309.00
BL060-H03-GP014	42 mm	11.8	23.7	5.87	60	0.001	\$336.00 / \$ 336.00
BL060-H03-GP019	42 mm	16.6	33.1	5.87	60	0.001	\$336.00 / \$ 336.00
BL060-H03-GP051	42 mm	41.0	82.0	6.39	60	0.001	\$364.00 / \$ 364.00
BL060-H03-H	57 mm	1.28	2.56	2.15	60	2.09E-03	\$160.00
BL090-H03-G	42 mm	1.90	3.98	3.94	90	1.61E-03	\$200.00
BL090-H03-GP005	42 mm	8.25	16.4	6.54	90	0.0016	\$344.00 / \$ 344.00
BL090-H03-GP014	42 mm	20.5	41.1	7.05	90	0.0016	\$374.00 / \$ 374.00
BL100-H03-I	80 mm	2.12	4.24	1.97	100	5.38E-03	\$200.00
BL120-H03-H	57 mm	2.56	5.13	3.25	120	3.95E-03	\$200.00
BL180-H04-H	57 mm	3.80	7.61	4.74	180	6.46E-03	\$240.00
BL200-H04-I	80 mm	4.24	8.49	2.67	200	0.74	\$250.00
BL300-H04-I	80 mm	6.37	12.75	3.31	300	1.53E-02	\$300.00