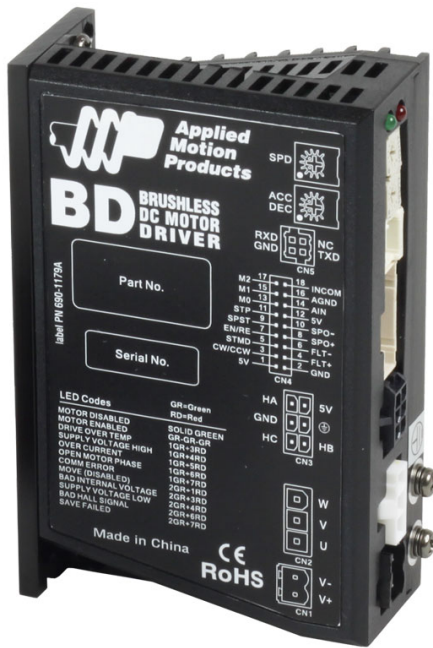


## BD5-G3-AH

Brushless DC Drive for 42mm 90W motor

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



### Product Features

- Velocity control
- Simple setup
- Compact design
- 6.25 A rms cont., 12.5 A rms peak
- Runs on 12-48 VDC
- 8 digital inputs, 1 analog input
- 2 digital outputs
- Performance-matched motors available



### Description

The BD5-G3-AH is a compact and efficient drive for use with Applied Motion's BL060-H03-G series 42mm 90W 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 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

<b>Model Number(s)</b>	BD5-G3-AH
<b>Part Number(s)</b>	5000-255-003
<b>Supply Voltage</b>	12-48 VDC
<b>Supply Voltage Type</b>	DC
<b>Control Modes</b>	<ul style="list-style-type: none"><li>• Velocity Control</li></ul>
<b>Output Current, Continuous</b>	6.25 A rms
<b>Output Current, Peak</b>	12.5 A rms
<b>Communication Ports</b>	NA
<b>Feedback</b>	Halls
<b>Setup Method</b>	Switch / potentiometer
<b>Digital Inputs</b>	8
<b>Digital Outputs</b>	2
<b>Analog Inputs</b>	1 (0 to 5 Vdc, 12 bit)
<b>Dimensions</b>	3.9 x 2.6 x 1.2 inches
<b>Weight</b>	6.0 oz
<b>Operating Temperature Range</b>	0 to 100 °C
<b>Ambient Temperature Range</b>	0 to 40 °C
<b>Ambient Humidity</b>	90% max, non-condensing
<b>Status LEDs</b>	1 red, 1 green
<b>Circuit Protection</b>	<ul style="list-style-type: none"><li>• Short circuit</li><li>• Over-voltage</li><li>• Under-voltage</li><li>• Over-temp</li></ul>

## Software

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

## Downloads

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

## Pricing

<b>BD5-G3-AH</b> Part No. 5000-255-003	
<b>1pc.</b>	\$186.00
<b>25pc.</b>	\$159.96
<b>50pc.</b>	\$139.50
<b>100pc.</b>	<a href="#">Contact us</a> 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 <sup>2</sup> )	1pc./50pc.
<a href="#">5000-255-001</a>	NA	NA	NA	NA	NA	NA	\$186.00
<a href="#">5000-255-002</a>	NA	NA	NA	NA	NA	NA	\$186.00
<a href="#">5000-255-003</a>	NA	NA	NA	NA	NA	NA	\$186.00
<a href="#">5000-255-004</a>	NA	NA	NA	NA	NA	NA	\$186.00
<a href="#">5000-255-005</a>	NA	NA	NA	NA	NA	NA	\$186.00
<a href="#">5000-260-001</a>	NA	NA	NA	NA	NA	NA	\$223.00
<a href="#">5000-260-002</a>	NA	NA	NA	NA	NA	NA	\$223.00
<a href="#">5000-260-003</a>	NA	NA	NA	NA	NA	NA	\$223.00
<a href="#">5000-260-004</a>	NA	NA	NA	NA	NA	NA	\$223.00
<a href="#">BL030-H03-G</a>	42 mm	0.58	1.15	1.81	30	5.49E-04	\$120.00
<a href="#">BL030-H03-GP005</a>	42 mm	2.38	4.77	4.41	30	0.00055	\$269.00 / \$ 269.00
<a href="#">BL030-H03-GP014</a>	42 mm	5.92	11.8	4.93	30	0.00055	\$296.00 / \$ 296.00
<a href="#">BL030-H03-GP019</a>	42 mm	8.28	16.6	4.93	30	0.00055	\$296.00 / \$ 296.00
<a href="#">BL030-H03-GP029</a>	42 mm	12.5	25.0	4.93	30	0.00055	\$296.00 / \$ 296.00
<a href="#">BL030-H03-GP051</a>	42 mm	20.5	41.0	5.45	30	0.00055	\$324.00 / \$ 324.00
<a href="#">BL030-H03-GP100</a>	42 mm	40.1	80.1	5.45	30	0.00055	\$324.00 / \$ 324.00
<a href="#">BL060-H03-G</a>	42 mm	1.15	2.30	2.76	60	1.02E-03	\$160.00
<a href="#">BL060-H03-GP005</a>	42 mm	4.77	9.56	5.36	60	0.001	\$309.00 / \$ 309.00
<a href="#">BL060-H03-GP014</a>	42 mm	11.8	23.7	5.87	60	0.001	\$336.00 / \$ 336.00
<a href="#">BL060-H03-GP019</a>	42 mm	16.6	33.1	5.87	60	0.001	\$336.00 / \$ 336.00
<a href="#">BL060-H03-GP051</a>	42 mm	41.0	82.0	6.39	60	0.001	\$364.00 / \$ 364.00
<a href="#">BL060-H03-H</a>	57 mm	1.28	2.56	2.15	60	2.09E-03	\$160.00
<a href="#">BL090-H03-G</a>	42 mm	1.90	3.98	3.94	90	1.61E-03	\$200.00
<a href="#">BL090-H03-GP005</a>	42 mm	8.25	16.4	6.54	90	0.0016	\$344.00 / \$ 344.00
<a href="#">BL090-H03-GP014</a>	42 mm	20.5	41.1	7.05	90	0.0016	\$374.00 / \$ 374.00
<a href="#">BL100-H03-I</a>	80 mm	2.12	4.24	1.97	100	5.38E-03	\$200.00
<a href="#">BL120-H03-H</a>	57 mm	2.56	5.13	3.25	120	3.95E-03	\$200.00
<a href="#">BL180-H04-H</a>	57 mm	3.80	7.61	4.74	180	6.46E-03	\$240.00
<a href="#">BL200-H04-I</a>	80 mm	4.24	8.49	2.67	200	0.74	\$250.00
<a href="#">BL300-H04-I</a>	80 mm	6.37	12.75	3.31	300	1.53E-02	\$300.00