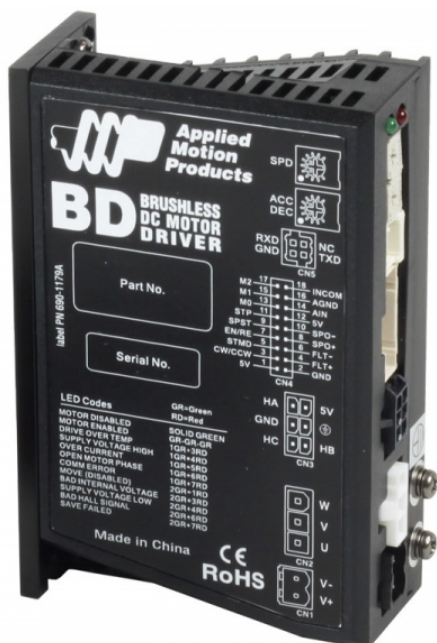


BD5-G3-AH

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 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:	BD5-G3-AH
Part Number:	5000-255-003
Supply Voltage:	12-48 VDC
Supply Voltage Type:	DC
Control Modes:	Velocity Control
Output Current, Continuous:	6.25
Output Current, Peak:	12.5
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

Downloads

Manuals:	 BD5-10 QuickSetup Guide 920-0066C.pdf  BD_HardwareManual_920-0065D.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/BD5-G3-AH.pdf
Family 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

Pricing

BD5-G3-AH Part No. 5000-255-003	
1pc.	\$186.00
25pc.	\$159.96
50pc.	\$139.50
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
i0-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
i0-H04-I	80 mm	4.24	8.49	2.67	200	0.74	\$250.00 / \$187.50
i0-H04-I	80 mm	6.37	12.75	3.31	300	1.53E-02	\$300.00 / \$225.00