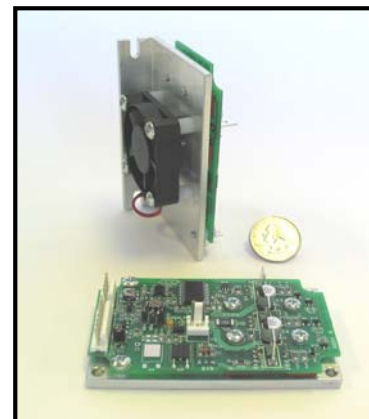


B3605S & B3610S Brushless Drive

- Economical Analog, 1 Quadrant Brushless Drive
- 15 - 36 Vdc Rated Supply Input
- 12 Vdc Operation with Jumper Selection
- Current Ratings 5A Continuous, 10A Peak
- Jumper Selectable Control Settings
- Velocity Control Mode
- Reverse and Enable Commands
- Operates 120 or 60 Degree Hall Commutation
- Inaudible, High Frequency PWM switching



Drive Performance										
Catalog Number	Voltage Range Vdc	Current Rating		Maximum Voltage Vdc	Input Command Vdc range	Min. Load Inductance mH	Switching Frequency kHz	Size W x L x H	Weight	
		Cont. Amps	Peak Amps						Kg	Lb
B3605S	12 or 15 - 36 V	5	5	36	0 - 10	0.1	25	2" x 3.5" x 1"	0.09	0.20
B3610S	12 or 15 - 36 V	10	10	36	0 - 10	0.1	25	2.25" x 3.50" x 1.55"	0.11	0.25

Motor / Drive System Performance									
Torque Limits Cont. Stall Tcs oz-in	Speed Limit Wnl rpm	Rated Torque Cont. Rated Tcr oz-in	Rated Speed Wr rpm	Rated Input Voltage Vb Vdc	Motor Inertia Jm oz-in-s ²	Motor Diameter inch	Motor Catalog Number	Drive Catalog Number	
16	12000	11	12000	36	0.0005	2.25	I2351014NC	B3610S	
28	12000	17	9000	36	0.001	2.25	I2351029NC	B3610S	
41	8000	30	5600	36	0.0013	2.25	I2353043NC	B3610S	
20	4200	18	2800	36	0.0011	2.25	IB23811	B3605S	
38	3800	32	2800	36	0.0017	2.25	IB23821	B3605S	
55	3700	52	2600	36	0.0025	2.25	IB23831	B3605S	
70	2800	63	1900	36	0.0034	2.25	IB23841	B3605S	
Tcs lb-in	Wnl rpm	Tcr lb-in	Wr rpm	Vb Vdc	Jm lb-in-s ²	Diameter inch	Catalog Number	Catalog Number	
5.6	1450	5.2	800	36	0.0006	3.25	IB34007	B3605S	
8.4	2250	7.7	1500	36	0.0009	3.25	IB34002	B3610S	
11.6	2000	11.0	1300	36	0.0011	3.25	IB34003	B3610S	
11.4	2250	11.4	1500	36	0.0014	3.25	IB34004	B3610S	
12.5	2100	12.5	1400	36	0.0018	3.25	IB34005	B3610S	
14.7	1800	14.7	1200	36	0.0021	3.25	IB34006	B3610S	

Notes 1) System Performance may differ somewhat from these nominal values

The B3605S & B3610S are compact, high efficiency brushless variable speed drives. They are a single-quadrant PWM speed drivers for electronically commutating three-phase brushless motors with Hall sensors. These drivers contains all the control elements necessary for operation and speed control.

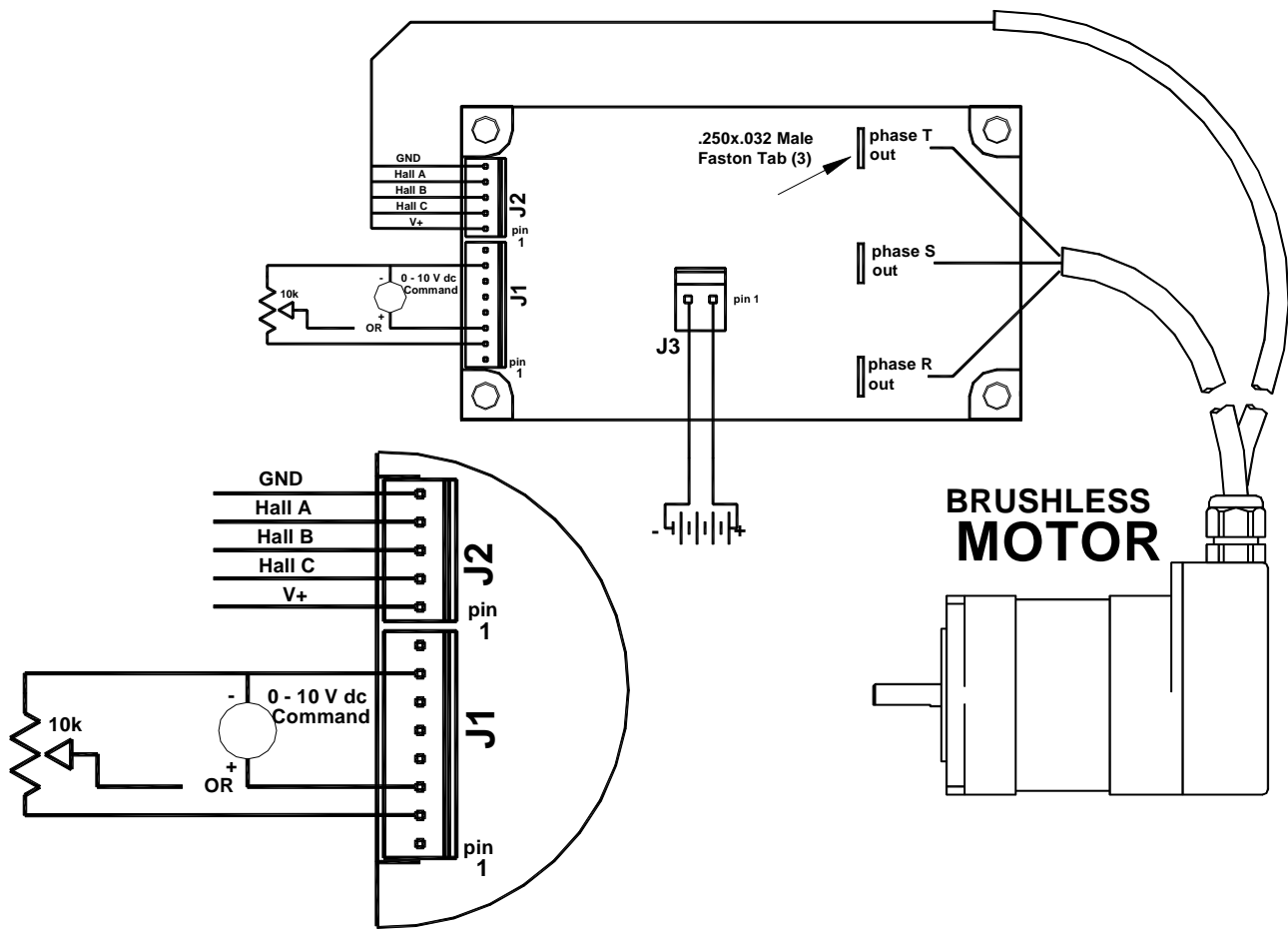
General Features

- Single Quadrant Control - Non Regenerative
- PWM Switching Frequency 25 KHz
- 120 or 60 degree Hall Phasing
- Single Supply operation 12 or 15 – 36 Vdc.
- External INHIBIT (/ENABLE) input
- Speed Monitor output
- FAULT (/READY) monitor output
- Direction of rotation control settings
 - Either via on board jumper or
 - Externally controlled
- The desired speed can be set via
 - an analog signal input (0 to 5 vdc or 0 to 10 vdc) or
 - externally connected potentiometer or
 - internally via a potentiometer

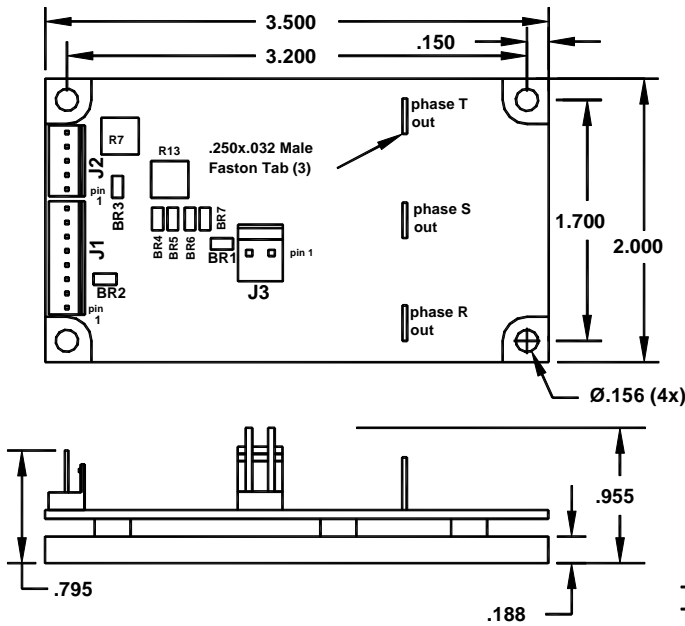
Protection / Diagnostics

- Locked Rotor, Undervoltage, Commutation failure

Typical Connection Diagram - B3605S & B3610S



Dimensions - B3605S



Dimensions - B3610S

