

BMC 12H Servo Drives

- Economical Analog, 4 Quadrant Brushless Servo Drive
- 208 / 230 Vac Line Input
- Current Rated at 12.5A Continuous, 25A Peak
- Dip Switch Selectable Settings
- Torque & Velocity Control Modes
- Output short circuit and over temperature protection
- Fault and Current Monitor Outputs
- Inaudible, High Frequency PWM switching
- Compact, Surface-mount Drive Technology
- Contact MCG for Motor power cables
- UL Recognized, CE Marked



Drive Performance											
Catalog Number	Voltage Range Vac	Maximum Voltage Vdc	Max. Current Rating		Input Command Vdc range	Min. Load Inductance mH	Switching Frequency kHz	Bandwidth kHz	Over Voltage Shut Down V dc	Weight	
			Cont. Amps	Peak Amps						Kg	Lb
BMC 12H	70 - 270 V	325	12.5	25	+ / - 10	0.660	20	2.5	390	2.17	4.8

Motor / Drive System Performance											
Torque Limits		Speed Limit Wnl rpm	Rated Torque		Rated Speed Wr rpm	Rated Bus Voltage Vb Vdc	Motor Inertia Jm lb-in-s ²	Motor Diameter inch	Motor Catalog Number	Drive Catalog Number	
Cont. Stall Tcs lb-in	Peak Stall Tps lb-in		Cont. Rated Tcr lb-in	Peak Rated Tpr lb-in							
11.3	34	4000	8.99	17.32	4000	325	0.00037	2.25	AB23007	BMC 12H	
15.6	47	5500	10.05	25.82	4500	325	0.0005	2.25	AB23008	BMC 12H	
17.0	85	4200	15.39	28.64	2500	325	0.001	3.25	AB34003	BMC 12H	
30.0	103	4500	26.65	40.16	4000	325	0.0018	3.25	AB34004	BMC 12H	
44.0	154	4100	40.12	68.11	2500	325	0.0026	3.25	AB34005	BMC 12H	

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

The BMC 12H is a compact, high efficiency brushless drive providing economical analog torque or velocity control of medium power permanent magnet brushless motors. These drives have an integrated power supply and operate off 208 / 230 Vac. These Models interface with typical digital position loop controllers or can be operated as a stand-alone drive.

Protection / Diagnostics

- Over-voltage protection
- Over-current protection
- Over Temperature protection
- Build in Test Mode
- LED Status Indicator
- Short Circuit Protection (built in fuses)

Adjustments

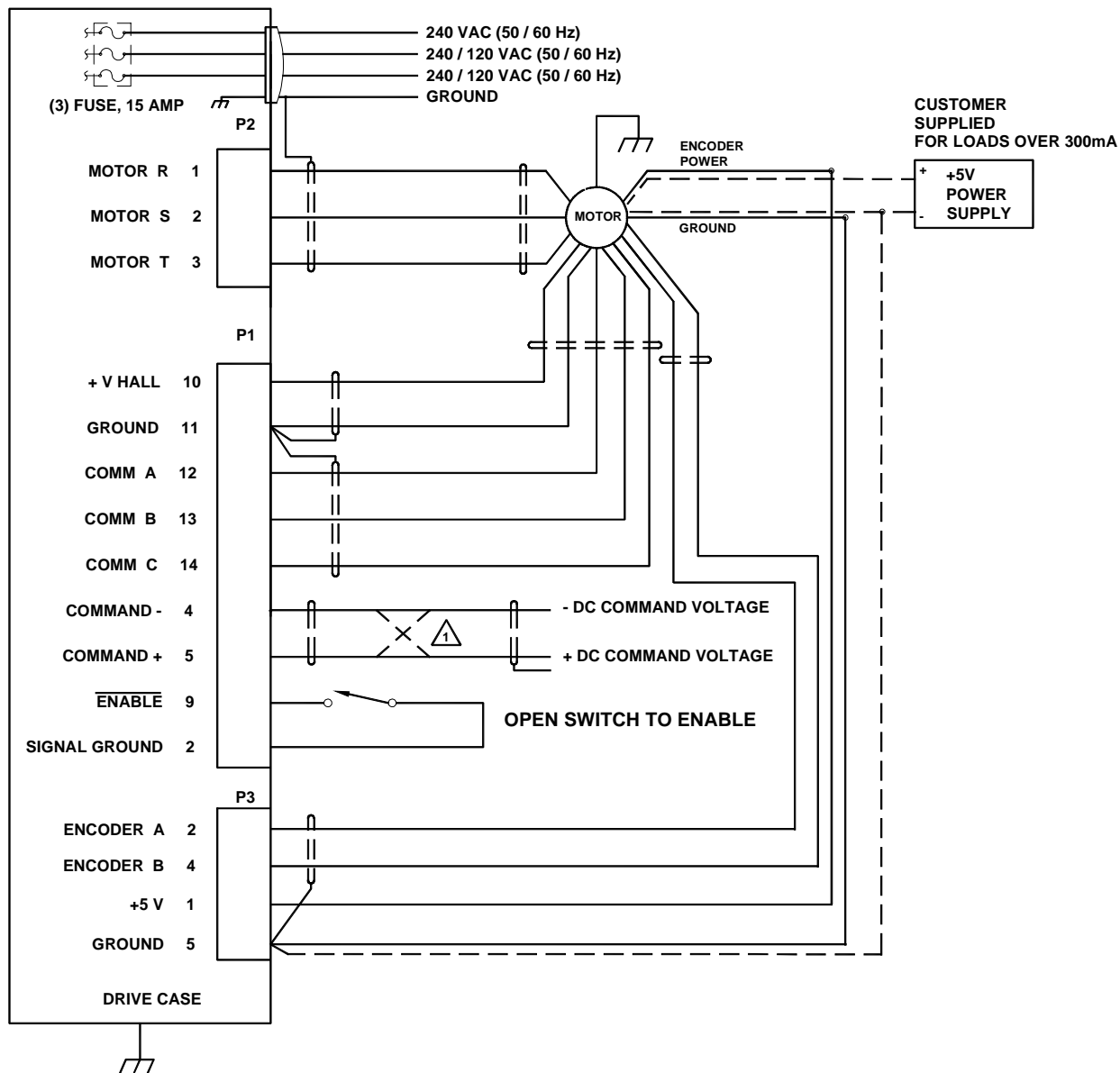
- Loop & Command Gain
- Current Limit (Peak and continuous)
- Offset

General Features

- Back or Side Panel Mounting
- +/- 10 V Regulated Outputs (5mA)
- Built in Shunt Regulator
- Inhibit Line (turns off outputs)
- Modes (current, velocity, open loop)
- 3 Velocity Modes Option (tach, hall or encoder)
- Fault, Current and Velocity Outputs
- Differential analog Command Input +/- 10V
- Contact MCG for Motor power cables



Typical Connection Diagram - BMC 12H



Dimensions - BMC12H

