

DMC 6D & 12D Servo Drives

- Economical Analog, 4 Quadrant DC Servo Drive
- 20 - 80 Vdc Rated Supply Input
- Current Ratings 6 & 12A Continuous, 12 & 25 Peak
- Dip Switch Selectable Settings
- Torque & Velocity Control Modes
- Output short circuit and over temperature protection
- Inaudible, High Frequency PWM switching
- Compact, Surface-mount Drive Technology
- UL Recognized, CE Marked



Drive Performance											
Catalog Number	Voltage Range Vdc	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
DMC 6D	20 - 80 V	80	6	12.5	+ / - 10	0.200	36	2.5	86	0.28	0.63
DMC 12D	20 - 80 V	80	12.5	25	+ / - 10	0.200	22	2.5	86	0.28	0.63

Motor / Drive System Performance											
Torque Limits		Speed Limit rpm	Rated Torque		Rated Speed rpm	Rated Bus Voltage Vdc	Motor Inertia Jm oz-in-s ²	Motor Diameter inch	Motor Catalog Number	Drive Catalog Number	
Cont. Stall Tcs oz-in	Peak Stall Tps oz-in		Cont. Rated Tcr oz-in	Peak Rated Tpr oz-in							
8	32	6000	5.9	12.6	6000	40	0.0003	1.5	ID15000	DMC 6D	
30	88	6000	25	60	6000	60	0.0038	2.25	ID23000	DMC 6D	
30	113	6000	25	60	6000	60	0.0038	2.25	ID23001	DMC 6D	
50	167	4700	41	91	4000	60	0.0062	2.25	ID23004	DMC 6D	
57	193	4000	47	100	3500	60	0.0075	2.25	ID23005	DMC 6D	
35	135	6000	23	50	6000	60	0.0045	2.25	ID23900	DMC 6D	
60	161	5500	40	94	5000	60	0.009	2.25	ID23902	DMC 6D	
Tcs lb-in	Tps lb-in	Wnl rpm	Tcr lb-in	Tpr lb-in	Wr rpm	Vb Vdc	Jm lb-in-s ²	Diameter inch	Catalog Number	Catalog Number	
4.69	13	6000	3.6	7.7	5000	80	0.00119	3.25	ID33001	DMC 6D	
7.5	20	4000	6.1	12.5	3250	80	0.0021	3.25	ID33002	DMC 6D	
10.60	37	4200	8	16	3750	80	0.003	3.25	ID33003	DMC 12D	
14.1	48	3200	10.5	21.5	2750	80	0.00394	3.25	ID33004	DMC 12D	

Notes 1) System Performance may differ somewhat from these nominal values 2) The DMC 12D can be used in place of the DMC 6D for greater intermittent duty. Check motor data sheet

The DMC 6D and 12D are stand alone, compact, high efficiency brush DC drives providing economical analog torque or velocity control of low to medium power permanent magnet brushed type DC motors. These Drives require an unregulated DC power supply. 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
- Test Mode Built In
- LED Status Indicator
- Short Circuit Protection

Adjustments

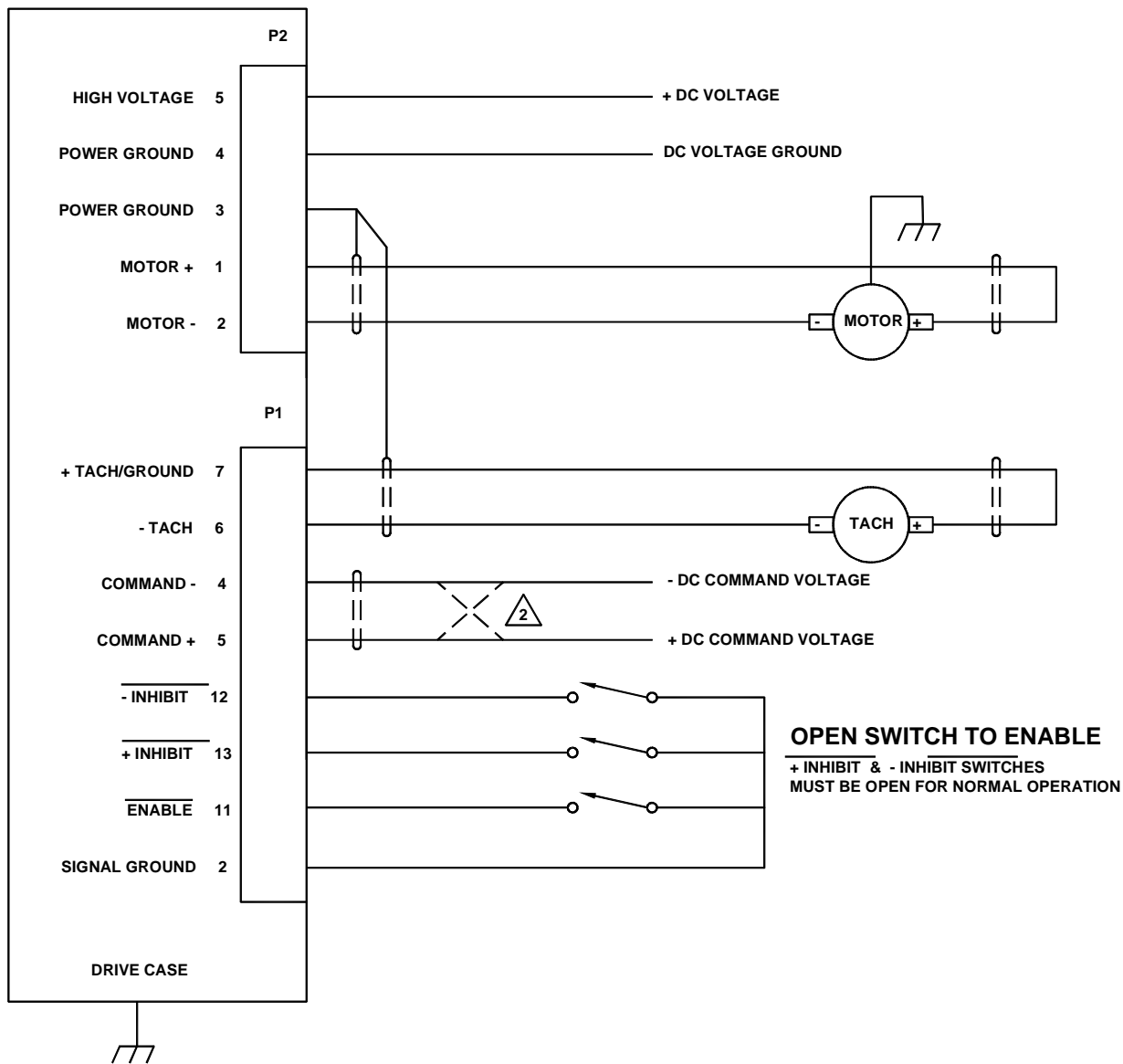
- Loop Gain
- Command Gain
- Current Limit (Peak and continuous)
- Independent current limits
- Offset

General Features

- Back or Side Panel Mounting
- +/- 5V Regulated Outputs (5mA)
- Tach Input to velocity loop (60VDC)
- Differential analog Input +/- 10 Vdc
- Inhibit Line (turns off outputs)
- Directional Inhibits (End of Travel)
- Modes (current, voltage, velocity & IR comp)
- Contact MCG for Motor power cables
- Fault Output
- Current Monitor Out

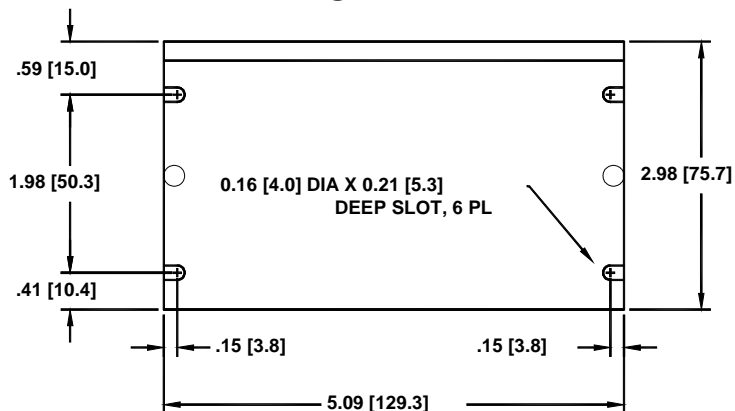


Typical Connection Diagram - DMC 6D & 12D

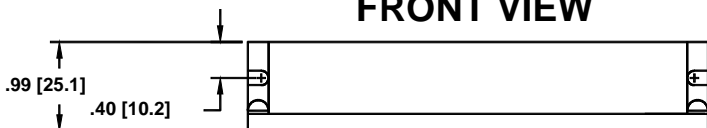


Dimensions - DMC6D & 12D

TOP VIEW



FRONT VIEW



SIDE VIEW

