



## LaunchPoint Technologies 5” Dual Halbach Motor

**DHA-050-1p5-75-1-2T3PY Frameless**

**Rated 1.5 kW Continuous Output at 7500 RPM, ~ 94% Efficient**

Parameter <sup>1</sup>	Units	Value
Max Rated Bus Voltage	VDC	126
Continuous Torque (Stall)	N-m	-
Continuous Torque @ Max Rated Speed	N-m	3.0
Continuous Current (Stall)	A <sub>rms</sub>	-
Continuous Current @ Max Rated Speed <sup>2</sup>	A <sub>rms</sub>	29.5
Max Rated Speed	RPM	14,000
Torque Constant	N-m/A <sub>rms</sub>	.106
Back EMF Constant (line-line, wye)	V <sub>pk</sub> /k <sub>rpm</sub>	9.0
Resistance (line-line, Wye terminated) <sup>3</sup>	Ohm	.190
Inductance (line-line, Wye terminated)	uH	2.50
Inertia	kg-cm <sup>2</sup>	4.7
Rotor Mass	kg	.298
Total Mass	kg	.410
Static Friction	N-m	-
Drag Torque at Max Rated Speed	N-m	-
Thermal Time Constant (stall/max rated speed)	seconds	-
Thermal Resistance (stall/max rated speed)	Deg C/W	-
Pole Pairs		18

<sup>1</sup> All parameters assume sinusoidal motor currents

<sup>2</sup> Coil at 160 C, 25 deg C ambient air

<sup>3</sup> Coil at 25 C