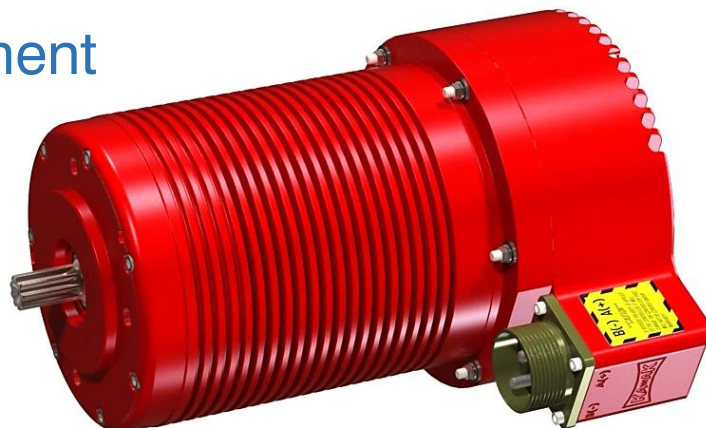




BLDC- IP66 Harsh Environment High Output Motor

- Peak Torque.....11 Nm
- Max Speed.....3700 rpm
- Supply Voltage.....28 vdc
- High Efficiency.....90%



Motor Performance

Supply voltage <i>(per 704F military standard)</i>	VDC	28
No load current	A	5
No load speed	RPM	3700
	rad/s	387.5
Rated speed ¹	RPM	3150
	rad/s	329.9
Rated torque ¹	Nm	11
	in-lb	97
Rated current ¹	A	140
Max. efficiency		90%
Torque constant ²	Nm/A	0.082
Speed constant	V/(rad/s)	0.074
	V/kRPM	7.7
Speed/ torque gradient	rpm/Nm	48
	(rad/s)/Nm	5.04
Number of poles		8

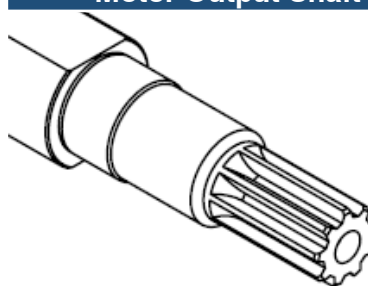
Thermal Data

Thermal resistance motor housing to ambient ³	°C/W	0.075
Thermal resistance ESC to housing ³	°C/W	0.058
Thermal time constant	min	15
Max. controller temperature	°C	105

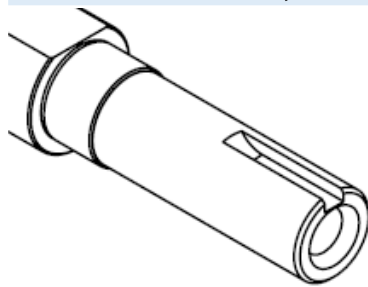
Other Specifications

IP Rating		IP66
Weight	lbf	26
	lbm	0.808
	kg	11.8

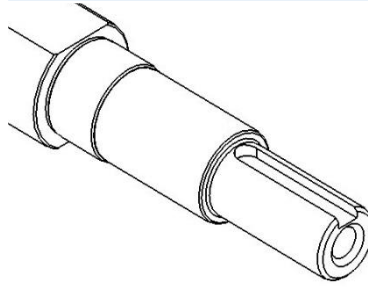
Motor Output Shaft Options



ANSI B92.1-1996, 5/8"-9 Spline



ANSI B17-1, 3/4" Keyed Shaft



Non Standard, 19/32" Keyed Shaft

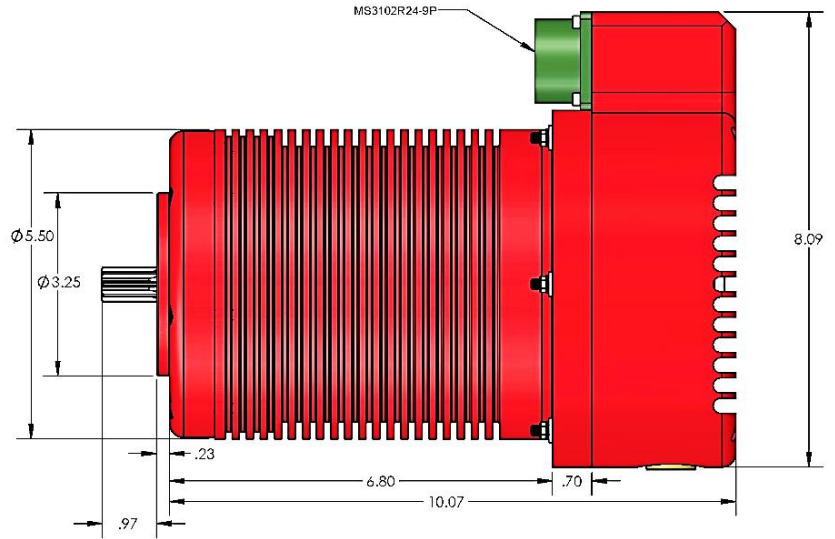
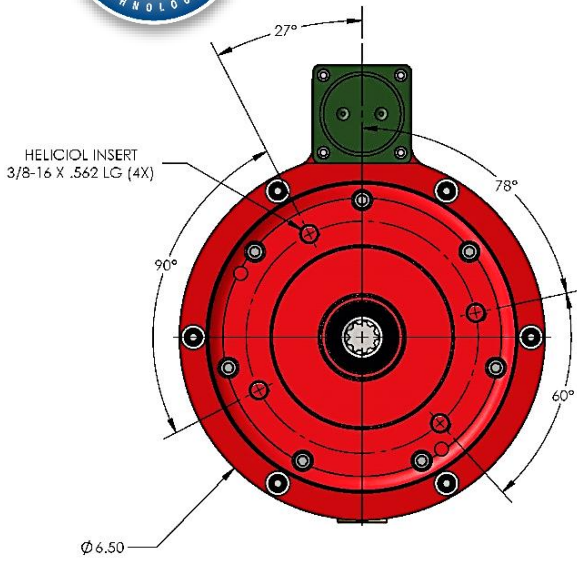
¹ Rated output is maximum continuous output with a nominal airflow of 3.5 m/s

² Kt represents $\frac{d\tau}{di}$. Total current will be slightly higher. See graph of Current Vs. Torque

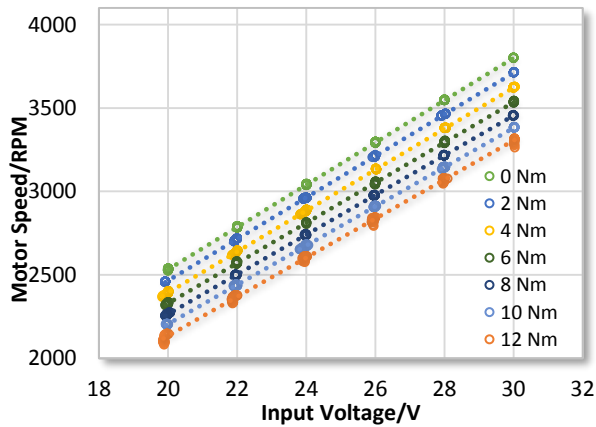
³ Thermal resistance to ambient measured at nominal airflow of 3.5 m/s



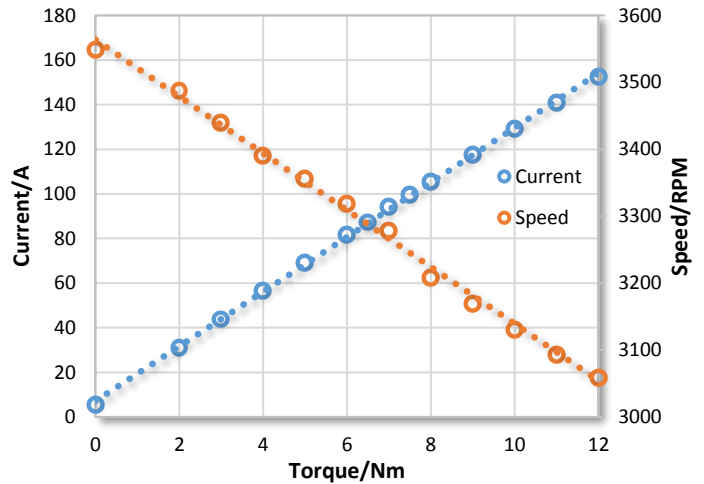
High Output 28V Brushless DC Motors



Motor Speed Vs. Input Voltage

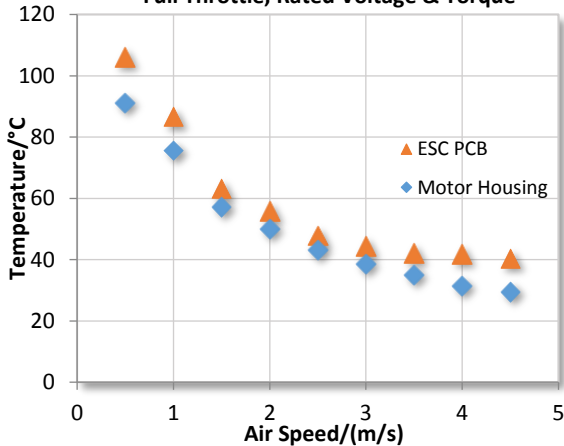


Motor Performance

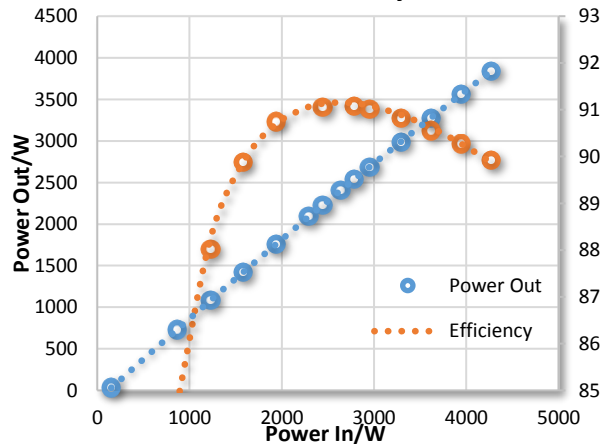


Temperature Rise

Full Throttle, Rated Voltage & Torque



Motor Efficiency



* KATI reserves the right to change or modify the content of this specification sheet at any time. Such changes, modifications, additions, or deletions to the specification sheet shall be effective immediately upon notice thereof, which may be given by any means including, but not limited to, posting new specification sheets on the website.