

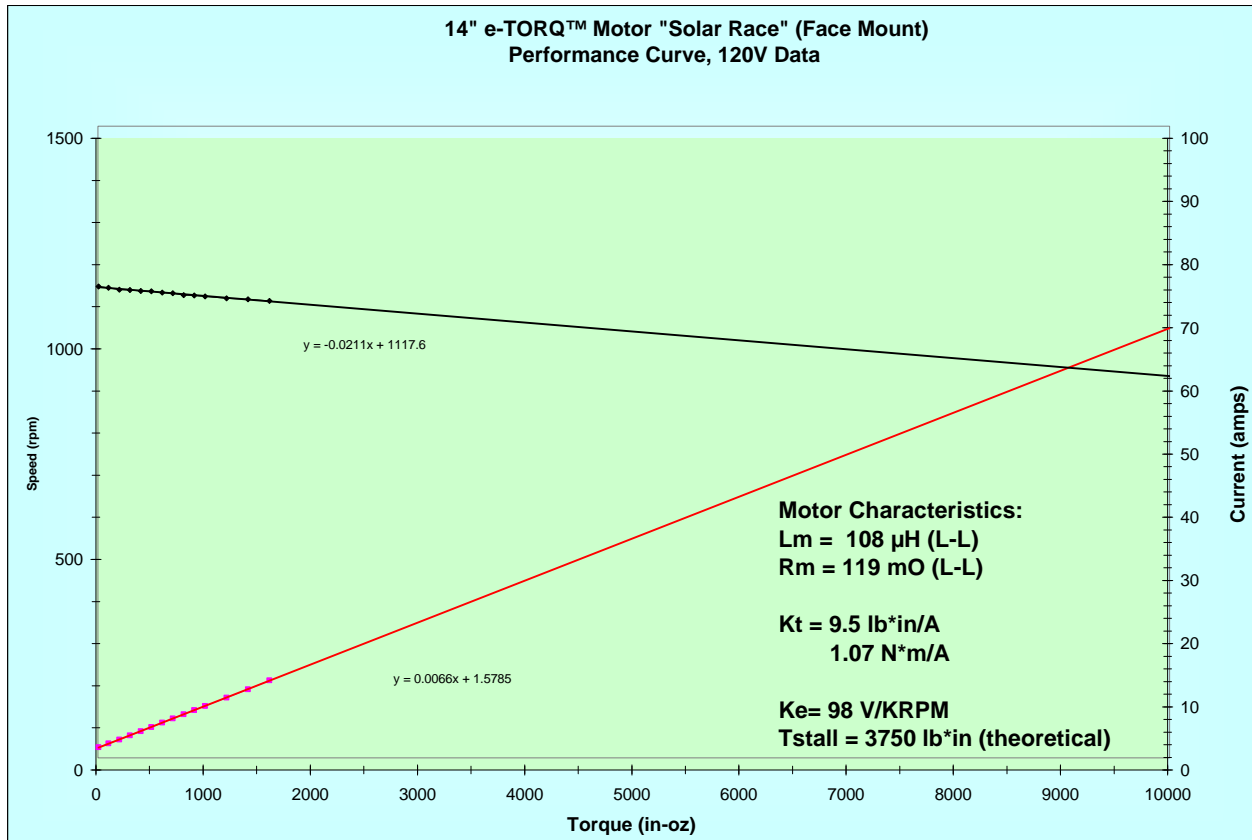
Standard 14-inch Motor Ratings and Performance Characteristics (120VDC Winding)



(Data based on the winning 2003 winding design)

Electrical Parameters	Symbol	Value	Metric Unit	Value	English Unit
Torque Constant	K_t	1.073	N*m/A _{rms}	9.50	lb*in/A _{rms}
Voltage Constant	K_e	0.935	V/(radian/sec)	98	V/kRPM
Motor Inductance (L-L)	L_m	0.108	mH		
Motor Resistance (L-L)	R_m	0.119	ohm		
Motor Power	P_{out}	1683	W		
Motor Efficiency	N	90	%		
Maximum Speed	n_{max}	2000	RPM		
Rated Speed	n	1100	RPM		
Continuous Output Torque	T_c	8.93	N*m	79.0	in*lb
Phase Current	I_m	13.10	A _{rms}		
Winding Configuration	3-Phase Wye				
Number of Poles		16		16	
Mechanical Parameters					
Rotor Inertia		0.211	kg*m ²	29.78	oz*in*sec ²
Dimensions LxW		358.14	mm	14.10	in
Length (motor only)		104.90	mm	4.13	in

All data subject to change without notice. © Bodine Electric Company 03/2004 (ehg/mbm).



General Outline Drawing – 14-inch Diameter e-TORQ™ Motor



PART NO. REV. INT5027B 1	
ENV MOTOR E10-14	
DIMENSIONAL OUTLINE [14" e-TORQ]	
AXIAL AIR GAP MOTOR	
DESIGNED BY: EJM	DESIGNED BY: EJM
DATE: 1/20/10	DATE: N/A
DRAWING NO./REV. INT5027B 1/0/0	
BODINE ELECTRIC COMPANY	

