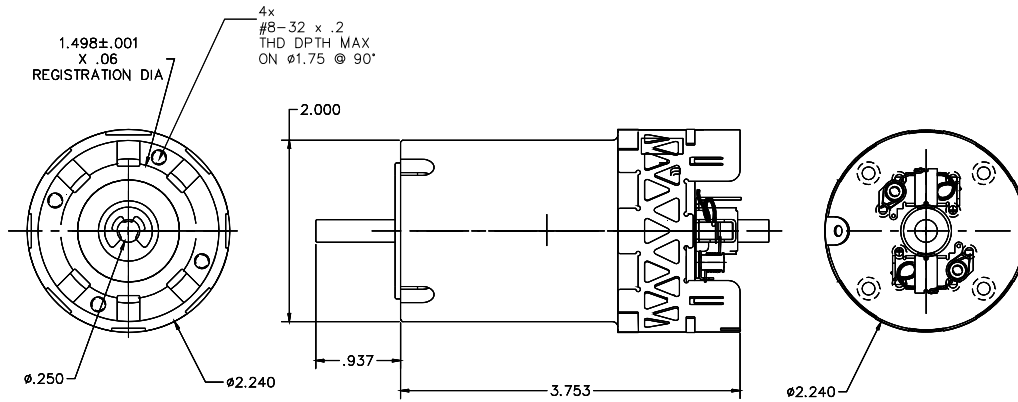


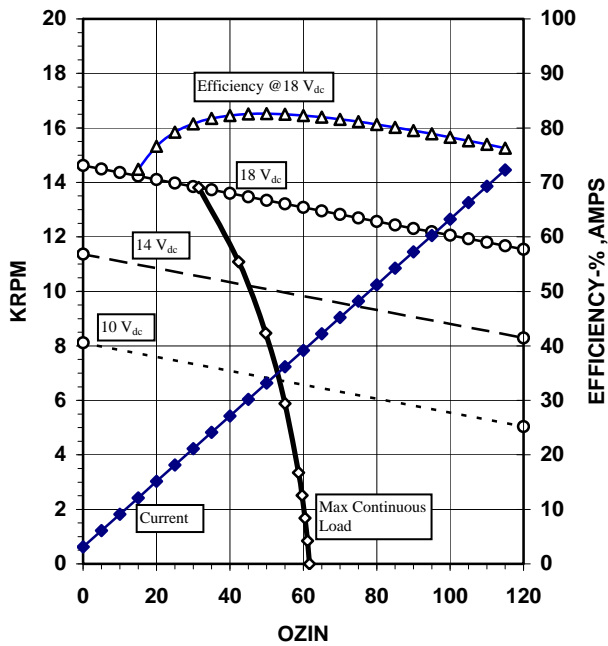
- High power density
- High peak torque
- High efficiency
- No cogging or hysteresis torque
- No iron losses
- No lamination ringing
- Rapid acceleration
- Low inductance armature
- Compact and lightweight
- Innovative, patented coil design

TGB2010-00 BRUSH MOTOR	
Peak torque (T_{peak})	200 oz-in.
Continuous shaft power (P_{cont})	320 W
Voltage (V_{cont})	18 VDC
Speed (ω_{cont})	13,810 rpm
Torque (T_{cont})	31.5 oz-in.
Current (I_{cont})	22.0 amps
Max efficiency @ 25 °C	82.6%
Max permissible speed (ω_{max})	24,000 rpm
No load speed (ω)	14,620 rpm @ 18 V _{DC}
No load current (I_0)	3.1 amps @ 18 V _{DC}
Motor constant (K_m)	7.2 oz-in./sqrt (W)
Motor constant/Inertia (K_m/J)	2,038 /s ² [sqrt (W)]
Torque constant (K_t)	1.65 oz-in./amp.
Back EMF constant (K_e)	820 rpm/v
Terminal resistance (R_t)	0.052 Ω
Cogging and hysteresis torque (T)	0 oz-in.
Viscous drag torque (T_{ac})	0.28 oz-in./krpm
Friction torque (T_{fr})	1.0 oz-in.
Max armature winding temperature*	130 °C
Thermal resistance (TPR)	0.93 °C/W
Armature inductance (L)	1.2 μH
Starting current (I)	0.48 amps
Armature weight (W_a)	4.0 oz
Motor weight (W_t)	34 oz
Armature inertia (J)	3.55 x 10 ⁻³ oz-in.-s ²
<small>*Max continuous winding temperature is limited by maximum magnet temperature of 120 °C. Peak power is limited by the temperature rise of the armature. Motor contains integrated fan for cooling. Magnet Material – Neodymium, Bearing Type – Ball, Brush – Silver Graphite. Motor testing performed at 25 °C ambient mounted on heat sink of 3" x 3/8" x 8" aluminum.</small>	

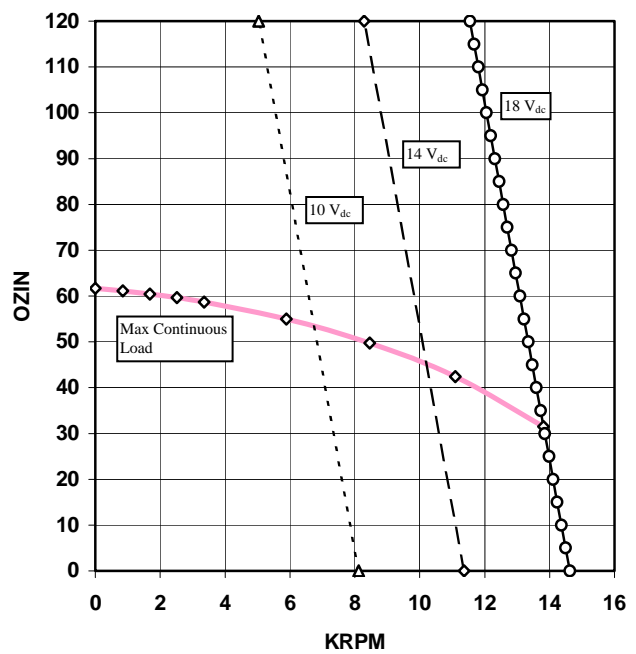
OUTLINE DRAWING



TGB2010 Speed, Efficiency, and Current vs. Torque @ 25 C.



TGB2010 Torque vs. Speed @ 25 C.



THINGAP CORPORATION

(805) 477-9741

(805) 477-7535 Fax