

TGB2011 BRUSH MOTOR



- 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

TGB2011-00 BRUSH MOTOR

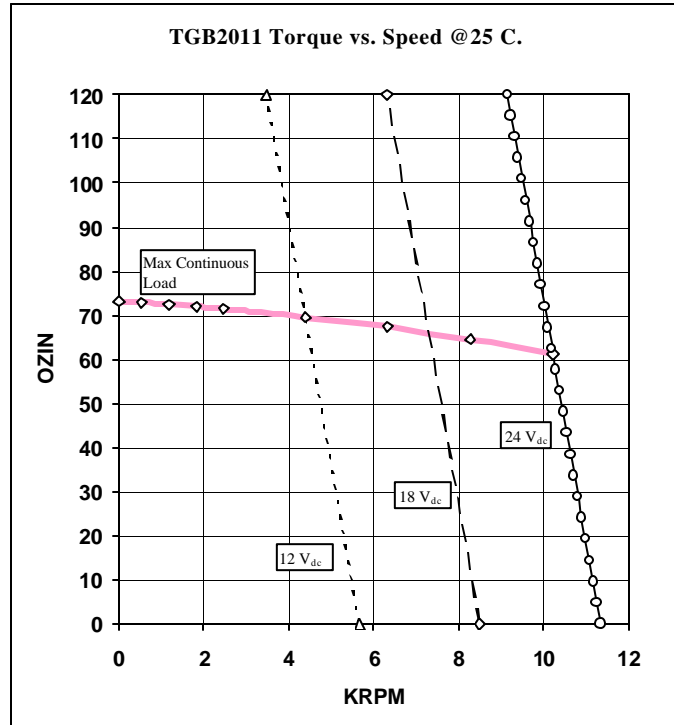
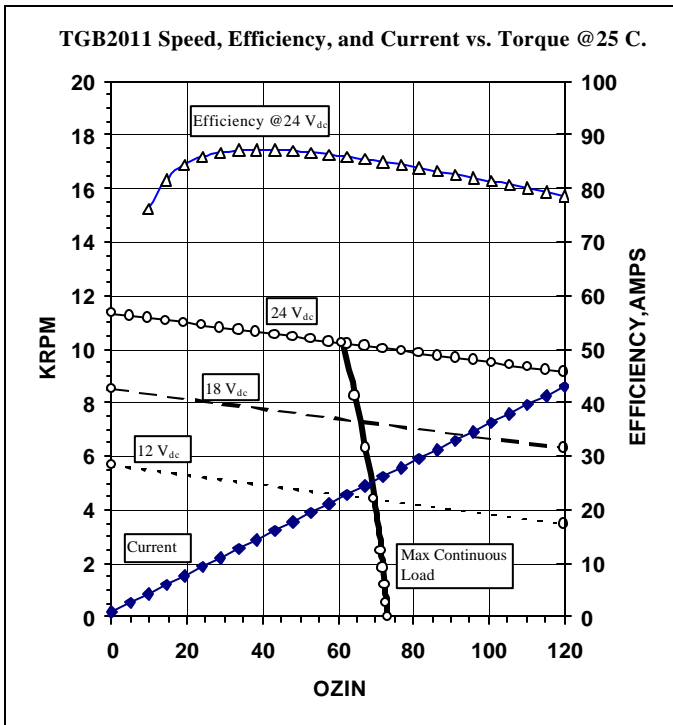
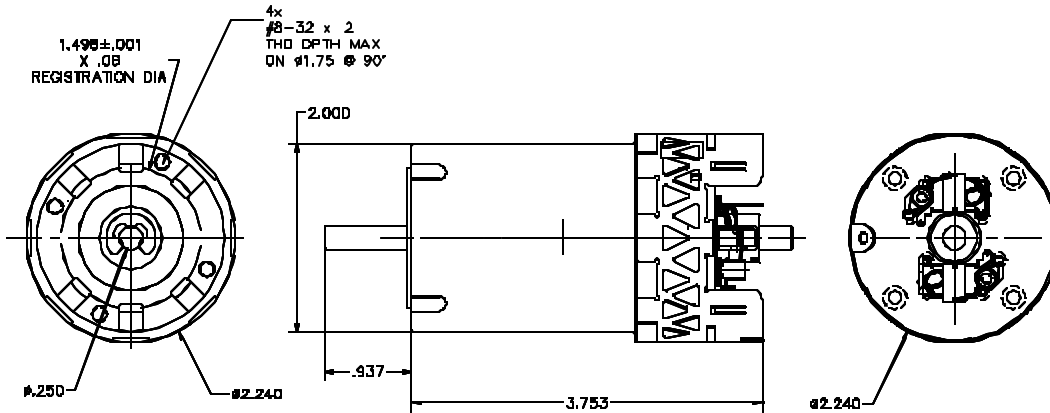
Peak torque (T_{peak})	300 oz-in.
Continuous shaft power (P_{cont})	460 W
Voltage (V_{cont})	24 VDC
Speed (ω_{cont})	10,219 rpm
Torque (T_{cont})	61.0 oz-in.
Current (I_{cont})	22.4 amps
Max efficiency @ 25 °C	87.2%
Max permissible speed (ω_{max})	17,000 rpm
No load speed (ω)	11,376 rpm @ 24 V _{DC}
No load current (I_o)	1.1 amps @ 24 V _{DC}
Motor constant (K_m)	8.6 oz-in./sqrt (W)
Motor constant/Inertia (K_m/J)	1,609 /s ² [sqrt (W)]
Torque constant (K_t)	2.85 oz-in./amp.
Back EMF constant (K_e)	474 rpm/v
Terminal resistance (R_t)	0.11 Ω
Cogging and hysteresis torque (T)	0 oz-in.
Viscous drag torque (T_{ac})	0.12 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)	5.3 μ H
Starting current (I)	0.25 amps
Armature weight (W_a)	5.1 oz
Motor weight (W_t)	33 oz
Armature inertia (J)	5.34 x 10 ⁻³ oz-in.-s ²
*Max continuous winding temperature is limited by maximum magnet temperature of 120 °C. Peak power is limited by the temperature rise of the armature. 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.	



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OUTLINE DRAWING



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