

DB-1500-G-4 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

| Specification | Units | Value |
|---------------------------------|----------------------|----------|
| Peak Torque, T_P | oz-in | 53 |
| Motor Constant, K_M | oz-in / \sqrt{W} | 6.27 |
| Number of Poles | | 8 |
| Number of Phases | | 3"Y" |
| Weight | oz (nom) | 7 |
| Motor Inertia, J_M | oz-in-s ² | 4.53E-03 |
| Friction Torque, T_F | oz-in | 1 |
| Electrical Time Constant, T_E | ms | 0.47 |
| Mechanical Time Constant, T_M | ms | 16.31 |
| *Temperature Rise, TPR* | °C / W | 9.8 |
| Integral Feedback Device | | None |

MOTOR WINDING CONSTANTS

| Specification | Units | Value |
|--|------------------------|-------|
| **Torque Sensitivity, K_T | oz-in/amp $\pm 10\%$ | 11.9 |
| Back EMF, K_E | V per rad/s $\pm 10\%$ | 0.084 |
| Terminal Resistance, R_M | ohms $\pm 10\%$ | 3.6 |
| Terminal Inductance, L_M | mH $\pm 30\%$ | 1.7 |
| Voltage, Stalled at Peak Torque, V_P | volts | 16.1 |
| Amps at Peak Torque, I_P | amps | 4.46 |

MECHANICAL DIMENSIONS (INCHES)

