

DB-3175-A-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

| Specification | Units | Value |
|---------------------------------|----------------------|----------|
| Peak Torque, T_P | oz-in | 54 |
| Motor Constant, K_M | oz-in / \sqrt{W} | 7.38 |
| Number of Poles | | 16 |
| Number of Phases | | 2"Y" |
| Weight | oz (nom) | 12 |
| Motor Inertia, J_M | oz-in-s ² | 8.30E-03 |
| Friction Torque, T_F | oz-in | 1.5 |
| Electrical Time Constant, T_E | ms | 0.15 |
| Mechanical Time Constant, T_M | ms | 21.60 |
| *Temperature Rise, TPR* | °C / W | 7.7 |
| Integral Feedback Device | | No |

MOTOR WINDING CONSTANTS

| Specification | Units | Value |
|--|-----------------------|-------|
| **Torque Sensitivity, K_T | oz-in/amp \pm 10% | 68.0 |
| Back EMF, K_E | V per rad/s \pm 10% | 0.480 |
| Terminal Resistance, R_M | ohms \pm 10% | 85.0 |
| Terminal Inductance, L_M | mH \pm 30% | 13 |
| Voltage, Stalled at Peak Torque, V_P | volts | 68.0 |
| Amps at Peak Torque, I_P | amps | 0.800 |

MECHANICAL DIMENSIONS (INCHES)

