

D-7200-A-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

| Specification | Units | Value |
|------------------------------------|-----------------------|-----------------------|
| Peak Torque, T_p | oz-in | 27.6 |
| Motor Constant, K_M | oz-in / \sqrt{W} | 1.10 |
| Number of Poles | | 20 |
| Weight | oz (nom) | 12 |
| Motor Inertia, J_M | oz-in-s ² | 1.18×10^{-2} |
| Friction Torque, T_F | oz-in | 0.35 |
| Electrical Time Constant, T_E | ms | 2.1 |
| Mechanical Time Constant, T_M | ms | 7.19 |
| Temperature Rise, TPR ¹ | °C / W | 1.15 |
| Ripple Torque, T_R | max. avg. to peak (%) | 4 |

MOTOR WINDING CONSTANTS

| Specification | Units | Value |
|--|-------------|-------|
| Torque Sensitivity, K_T | oz-in / amp | 2.65 |
| Back EMF, K_E | V per rad/s | 3.59 |
| Terminal Resistance, R_M | ohms (nom) | 5.80 |
| Terminal Inductance, L_M | mH (nom) | 12 |
| Voltage, Stalled at Peak Torque, V_P | volts | 60.3 |
| Amps at Peak Torque, I_p | amps | 10.4 |

MECHANICAL DIMENSIONS (INCHES)

