

# D-2000-D-1NS SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	108
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	8.06
Number of Poles		8
Weight	oz (nom)	6.7
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	3.25E-03
Friction Torque, $T_F$	oz-in	6.0
Electrical Time Constant, $T_E$	ms	0.032
Mechanical Time Constant, $T_M$	ms	7.08
Temperature Rise, TPR <sup>*</sup>	°C / W	10

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	18.0
Back EMF, $K_E$	V per rad/s	0.127
Terminal Resistance, $R_M$	ohms (nom)	4.99
Terminal Inductance, $L_M$	mH (nom)	1.6
Voltage, Stalled at Peak Torque, $V_p$	volts	29.9
Amps at Peak Torque, $I_p$	amps	6.00

## MECHANICAL DIMENSIONS (INCHES)

