

# D-1125-N-1 SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	6.6
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	0.899
Number of Poles		4
Weight	oz (nom)	1.8
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	1.50E-04
Friction Torque, $T_F$	oz-in	0.20
Electrical Time Constant, $T_E$	ms	0.216
Mechanical Time Constant, $T_M$	ms	26.24
Temperature Rise, TPR'	°C / W	33
Ripple Torque, $T_R$	max. avg. to peak (%)	7

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	4.10
Back EMF, $K_E$	V per rad/s	0.029
Terminal Resistance, $R_M$	ohms (nom)	20.8
Terminal Inductance, $L_M$	mH (nom)	4.5
Voltage, Stalled at Peak Torque, $V_P$	volts	33.3
Amps at Peak Torque, $I_P$	amps	1.60

## MECHANICAL DIMENSIONS (INCHES)

