

# D-1125-P-10 SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	6.6
Motor Constant, $K_M$	oz-in / W	0.87
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	0.246
Mechanical Time Constant, $T_M$	ms	28.4
Temperature Rise, TPR'	°C / W	34
Ripple Torque, $T_R$	max. avg. to peak (%)	7

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	3.12
Back EMF, $K_E$	V per rad/s	0.022
Terminal Resistance, $R_M$	ohms (nom)	13
Terminal Inductance, $L_M$	mH (nom)	3.2
Voltage, Stalled at Peak Torque, $V_P$	volts	27.6
Amps at Peak Torque, $I_P$	amps	2.12

## MECHANICAL DIMENSIONS (INCHES)

