

D-1125-P-7 / K044 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	6.6
Motor Constant, K_M	oz-in / \sqrt{W}	0.851
Number of Poles		4
Weight	oz (nom)	1.8
Motor Inertia, J_M	oz-in-s ²	1.50E-04
Friction Torque, T_F	oz-in	0.20
Electrical Time Constant, T_E	ms	0.231
Mechanical Time Constant, T_M	ms	29.26
Temperature Rise, TPR ¹	°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	4.95
Back EMF, K_E	V per rad/s	0.035
Terminal Resistance, R_M	ohms (nom)	33.8
Terminal Inductance, L_M	mH (nom)	7.8
Voltage, Stalled at Peak Torque, V_p	volts	45.0
Amps at Peak Torque, I_p	amps	1.33

MECHANICAL DIMENSIONS (INCHES)

