

D-1500-E-6 / K012 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	15
Motor Constant, K_M	oz-in / \sqrt{W}	2.01
Number of Poles		6
Weight	oz (nom)	2.4
Motor Inertia, J_M	oz-in-s ²	5.50E-04
Friction Torque, T_F	oz-in	0.50
Electrical Time Constant, T_E	ms	0.304
Mechanical Time Constant, T_M	ms	19.38
Temperature Rise, TPR ¹	°C / W	19
Ripple Torque, T_R	max. avg. to peak (%)	7

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	6.80
Back EMF, K_E	V per rad/s	0.048
Terminal Resistance, R_M	ohms (nom)	11.5
Terminal Inductance, L_M	mH (nom)	3.5
Voltage, Stalled at Peak Torque, V_P	volts	25.4
Amps at Peak Torque, I_p	amps	2.21

MECHANICAL DIMENSIONS (INCHES)

