

D-5125-C-3 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	160
Motor Constant, K_M	oz-in / \sqrt{W}	22.1
Number of Poles		16
Weight	oz (nom)	19
Motor Inertia, J_M	oz-in-s ²	9.80E-02
Friction Torque, T_F	oz-in	5
Electrical Time Constant, T_E	ms	0.447
Mechanical Time Constant, T_M	ms	28.31
Temperature Rise, TPR ¹	°C / W	4.5
Ripple Torque, T_R	max. avg. to peak (%)	5

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	48
Back EMF, K_E	V per rad/s	0.339
Terminal Resistance, R_M	ohms (nom)	4.70
Terminal Inductance, L_M	mH (nom)	2.1
Voltage, Stalled at Peak Torque, V_P	volts	15.7
Amps at Peak Torque, I_P	amps	3.33

MECHANICAL DIMENSIONS (INCHES)

