

D-3180-G-2AE SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	400
Motor Constant, K_M	oz-in / \sqrt{W}	27.6
Number of Poles		10
Weight	oz (nom)	36
Motor Inertia, J_M	oz-in-s ²	0.035
Friction Torque, T_F	oz-in	10
Electrical Time Constant, T_E	ms	0.769
Mechanical Time Constant, T_M	ms	6.51
Temperature Rise, TPR'	°C / W	5
Ripple Torque, T_R	max. avg. to peak (%)	10

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)	2.60
Terminal Inductance, L_M	mH (nom)	3.2
Voltage, Stalled at Peak Torque, V_p	volts	26.0
Amps at Peak Torque, I_p	amps	9.23

MECHANICAL DIMENSIONS (INCHES)

