

D-1375-F-2ANS SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	43
Motor Constant, K_M	oz-in / \sqrt{W}	2.70
Number of Poles		8
Weight	oz (nom)	2.4
Motor Inertia, J_M	oz-in-s ²	5.35E-04
Friction Torque, T_F	oz-in	0.88
Electrical Time Constant, T_E	ms	0.172
Mechanical Time Constant, T_M	ms	10.24
Temperature Rise, TPR'	°C / W	17
Ripple Torque, T_R	max. avg. to peak (%)	6

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	5.05
Back EMF, K_E	V per rad/s	0.036
Terminal Resistance, R_M	ohms (nom)	3.48
Terminal Inductance, L_M	mH (nom)	0.60
Voltage, Stalled at Peak Torque, V_p	volts	30.0
Amps at Peak Torque, I_p	amps	8.62

MECHANICAL DIMENSIONS (INCHES)

