

# D-3375-A-1 SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	33
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	9.03
Number of Poles		12
Weight	oz (nom)	8.5
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	1.60E-02
Friction Torque, $T_f$	oz-in	2
Electrical Time Constant, $T_E$	ms	0.243
Mechanical Time Constant, $T_M$	ms	27.72
Temperature Rise, TPR'	°C / W	6.2
Ripple Torque, $T_R$	max. avg. to peak (%)	5

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	41
Back EMF, $K_E$	V per rad/s	0.290
Terminal Resistance, $R_M$	ohms (nom)	20.6
Terminal Inductance, $L_M$	mH (nom)	5
Voltage, Stalled at Peak Torque, $V_p$	volts	16.5
Amps at Peak Torque, $I_p$	amps	0.80

## MECHANICAL DIMENSIONS (INCHES)

