

# D-1938-R-1AN SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	12.9
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	2.8
Number of Poles		6
Weight	oz (nom)	2.80
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	0.0008
Friction Torque, $T_F$	oz-in	0.65
Electrical Time Constant, $T_E$	ms	0.31
Mechanical Time Constant, $T_M$	ms	14.4
Temperature Rise, TPR'	°C / W	19

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	15.9
Back EMF, $K_E$	V per rad/s	0.112
Terminal Resistance, $R_M$	ohms (nom)	32.8
Terminal Inductance, $L_M$	mH (nom)	10
Voltage, Stalled at Peak Torque, $V_P$	volts	26.0
Amps at Peak Torque, $I_P$	amps	0.807

## MECHANICAL DIMENSIONS (INCHES)

