

# TD-2250-A-1 SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	18.8
Motor Constant, $K_M$	oz-in / W	4.77
Excursion Angle	degrees	$\pm 7.5$
Number of Poles		4
Weight	oz (nom)	7.5
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	2.26E-03
Friction Torque, $T_F$	oz-in	0.5
Electrical Time Constant, $T_E$	ms	26.866
Mechanical Time Constant, $T_M$	ms	0.20

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in/amp	33
Back EMF, $K_E$	V per rad/s	0.233
Terminal Resistance, $R_M$	ohms (nom)	0.67
Terminal Inductance, $L_M$	mH (nom)	18
Voltage, Stalled at Peak Torque, $V_p$	volts	24
Amps at Peak Torque, $I_p$	amps	0.648

## MECHANICAL DIMENSIONS (INCHES)

