

# TD-2300-A-1S SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	10.5
Motor Constant, $K_M$	oz-in / W	3.2
Excursion Angle	degrees	$\pm 23$
Number of Poles		4
Weight	oz (nom)	7
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	3.80E-03
Friction Torque, $T_F$	oz-in	0.35
Electrical Time Constant, $T_E$	ms	0.357
Mechanical Time Constant, $T_M$	ms	52.16

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in/amp	12
Back EMF, $K_E$	V per rad/s	0.085
Terminal Resistance, $R_M$	ohms (nom)	14
Terminal Inductance, $L_M$	mH (nom)	5
Voltage, Stalled at Peak Torque, $V_p$	volts	14
Amps at Peak Torque, $I_p$	amps	1

## MECHANICAL DIMENSIONS (INCHES)