

# TD-3300-K-1SC SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	65
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	13.34
Excursion Angle	degrees	$\pm 22.5$
Number of Poles		4
Weight	oz (nom)	23.2
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	3.10E-02
Friction Torque, $T_F$	oz-in	1
Electrical Time Constant, $T_E$	ms	TBD
Mechanical Time Constant, $T_M$	ms	24.62

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in/amp	26
Back EMF, $K_E$	V per rad/s	0.184
Terminal Resistance, $R_M$	ohms (nom)	3.8
Terminal Inductance, $L_M$	mH (nom)	TBD
Voltage, Stalled at Peak Torque, $V_P$	volts	12
Amps at Peak Torque, $I_P$	amps	3.16

## MECHANICAL DIMENSIONS (INCHES)

