

# TD-3300-J-1SC SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	25
Motor Constant, $K_M$	oz-in / W	6.82
Excursion Angle	degrees	$\pm 22.5$
Number of Poles		4
Weight	oz (nom)	11
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	1.49E-02
Friction Torque, $T_F$	oz-in	1
Electrical Time Constant, $T_E$	ms	1.144
Mechanical Time Constant, $T_M$	ms	45.15

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in/amp	22
Back EMF, $K_E$	V per rad/s	0.156
Terminal Resistance, $R_M$	ohms (nom)	10.4
Terminal Inductance, $L_M$	mH (nom)	11.9
Voltage, Stalled at Peak Torque, $V_p$	volts	24
Amps at Peak Torque, $I_p$	amps	1.14

## MECHANICAL DIMENSIONS (INCHES)

