

# TD-1900-B-1C SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	27
Motor Constant, $K_M$	oz-in / W	3.53
Excursion Angle	degrees	$\pm 15$
Number of Poles		4
Weight	oz (nom)	5.5
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	2.00E-03
Friction Torque, $T_F$	oz-in	0.34
Electrical Time Constant, $T_E$	ms	0.615
Mechanical Time Constant, $T_M$	ms	22.93

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in/amp	9
Back EMF, $K_E$	V per rad/s	0.063
Terminal Resistance, $R_M$	ohms (nom)	6.5
Terminal Inductance, $L_M$	mH (nom)	4
Voltage, Stalled at Peak Torque, $V_p$	volts	22
Amps at Peak Torque, $I_p$	amps	3

## MECHANICAL DIMENSIONS (INCHES)

