

# D-1500-Y-1 SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	18.2
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	3.0
Number of Poles		6
Weight	oz (nom)	6.4
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	0.0014
Friction Torque, $T_F$	oz-in	0.95
Electrical Time Constant, $T_E$	ms	0.45
Mechanical Time Constant, $T_M$	ms	22.0
Temperature Rise, TPR <sup>1</sup>	°C / W	12
Ripple Torque, $T_R$	max. avg. to peak (%)	10

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	13.8
Back EMF, $K_E$	V per rad/s	0.98
Terminal Resistance, $R_M$	ohms (nom)	20.69
Terminal Inductance, $L_M$	mH (nom)	8.15
Voltage, Stalled at Peak Torque, $V_P$	volts	28.0
Amps at Peak Torque, $I_P$	amps	1.3

## MECHANICAL DIMENSIONS (INCHES)

