

# D-4500-B-1AS SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	305
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	50
Number of Poles		20
Weight	oz (nom)	26
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	8.50E-02
Friction Torque, $T_F$	oz-in	5
Electrical Time Constant, $T_E$	ms	0.353
Mechanical Time Constant, $T_M$	ms	4.83
Temperature Rise, TPR'	°C / W	2.4
Ripple Torque, $T_R$	max. avg. to peak (%)	5

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	92
Back EMF, $K_E$	V per rad/s	0.650
Terminal Resistance, $R_M$	ohms (nom)	3.4
Terminal Inductance, $L_M$	mH (nom)	1.2
Voltage, Stalled at Peak Torque, $V_P$	volts	11.2
Amps at Peak Torque, $I_P$	amps	3.31

## MECHANICAL DIMENSIONS (INCHES)

