

# D-7200-B-1ES SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	42.3
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	1.73
Number of Poles		20
Weight	oz (nom)	24
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	$2.33 \times 10^{-2}$
Friction Torque, $T_F$	oz-in	0.60
Electrical Time Constant, $T_E$	ms	2.5
Mechanical Time Constant, $T_M$	ms	5.76
Temperature Rise, TPR'	°C / W	0.78
Ripple Torque, $T_R$	max. avg. to peak (%)	4

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	3.18
Back EMF, $K_E$	V per rad/s	4.31
Terminal Resistance, $R_M$	ohms (nom)	3.39
Terminal Inductance, $L_M$	mH (nom)	8.6
Voltage, Stalled at Peak Torque, $V_P$	volts	45.0
Amps at Peak Torque, $I_P$	amps	13.3

## MECHANICAL DIMENSIONS (INCHES)

