

# D-10020-C-1ANS SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	2222.3
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	98.31
Number of Poles		32
Weight	oz (nom)	7.0
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	1.335E+00
Friction Torque, $T_F$	oz-in	50.00
Electrical Time Constant, $T_E$	ms	0.443
Mechanical Time Constant, $T_M$	ms	19.561
Temperature Rise, TPR <sup>1</sup>	°C / W	1.96
Ripple Torque, $T_R$	max. avg. to peak (%)	7

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	156.5
Back EMF, $K_E$	V per rad/s	1.105
Terminal Resistance, $R_M$	ohms (nom)	2.71
Terminal Inductance, $L_M$	mH (nom)	1.200
Voltage, Stalled at Peak Torque, $V_p$	volts	38.5
Amps at Peak Torque, $I_p$	amps	14.20

## MECHANICAL DIMENSIONS (INCHES)

