

# D-8630-C-1 SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	160
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	22.1
Number of Poles		16
Weight	oz (nom)	37
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	1.40E-02
Friction Torque, $T_F$	oz-in	8
Electrical Time Constant, $T_E$	ms	0.532
Mechanical Time Constant, $T_M$	ms	40.4
Temperature Rise, TPR'	°C / W	3
Ripple Torque, $T_R$	max. avg. to peak (%)	5

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	48
Back EMF, $K_E$	V per rad/s	0.339
Terminal Resistance, $R_M$	ohms (nom)	4.70
Terminal Inductance, $L_M$	mH (nom)	2.5
Voltage, Stalled at Peak Torque, $V_P$	volts	15.7
Amps at Peak Torque, $I_P$	amps	3.34

## MECHANICAL DIMENSIONS (INCHES)

