

# D-5600-A-1ES SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_P$	oz-in	15
Motor Constant, $K_M$	oz-in / $\sqrt{W}$	0.731
Number of Poles		14
Weight	oz (nom)	9.0
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	$4.40 \times 10^{-3}$
Friction Torque, $T_F$	oz-in	0.50
Electrical Time Constant, $T_E$	ms	1.6
Mechanical Time Constant, $T_M$	ms	6.1
Temperature Rise, TPR'	°C / W	1.2
Ripple Torque, $T_R$	max. avg. to peak (%)	6

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in / amp	1.15
Back EMF, $K_E$	V per rad/s	1.56
Terminal Resistance, $R_M$	ohms (nom)	2.49
Terminal Inductance, $L_M$	mH (nom)	4.1
Voltage, Stalled at Peak Torque, $V_P$	volts	32.4
Amps at Peak Torque, $I_P$	amps	13.0

## MECHANICAL DIMENSIONS (INCHES)

