

D-1500-Z-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	18
Motor Constant, K_M	oz-in / \sqrt{W}	3.02
Number of Poles		6
Weight	oz (nom)	6.4
Motor Inertia, J_M	oz-in-s ²	1.40E-03
Friction Torque, T_F	oz-in	0.95
Electrical Time Constant, T_E	ms	0.451
Mechanical Time Constant, T_M	ms	21.72
Temperature Rise, TPR'	°C / W	12
Ripple Torque, T_R	max. avg. to peak (%)	10

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	14
Back EMF, K_E	V per rad/s	0.099
Terminal Resistance, R_M	ohms (nom)	21.5
Terminal Inductance, L_M	mH (nom)	9.7
Voltage, Stalled at Peak Torque, V_P	volts	28
Amps at Peak Torque, I_P	amps	1.30

MECHANICAL DIMENSIONS (INCHES)

