

DB-4530-A-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	192.7
Motor Constant, K_M	oz-in / \sqrt{W}	16.14
Number of Poles		20
Number of Phases		2
Weight	oz (nom)	17
Motor Inertia, J_M	oz-in-s ²	7.80E-03
Friction Torque, T_F	oz-in	2
Electrical Time Constant, T_E	ms	0.450
Mechanical Time Constant, T_M	ms	4.24
Temperature Rise, TPR	°C / W	1.5
Integral Feedback Device		None

MOTOR WINDING CONSTANTS

Specification	Units	Value
**Torque Sensitivity, K_T	oz-in/amp \pm 10%	250
Back EMF, K_E	V per rad/s \pm 10%	1.765
Terminal Resistance, R_M	ohms \pm 10%	240
Terminal Inductance, L_M	mH \pm 30%	108
Voltage, Stalled at Peak Torque, V_p	volts	185
Amps at Peak Torque, I_p	amps	0.77

MECHANICAL DIMENSIONS (INCHES)

