

DB-1250-A-1 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	1.4
Motor Constant, K_M	oz-in / \sqrt{W}	1.11
Number of Poles		8
Number of Phases		3" Δ "
Weight	oz (nom)	1
Motor Inertia, J_M	oz-in-s ²	1.22E-04
Friction Torque, T_F	oz-in	0.35
Electrical Time Constant, T_E	ms	0.09
Mechanical Time Constant, T_M	ms	14.10
Temperature Rise, TPR	°C / W	29.6
Integral Feedback Device		None

MOTOR WINDING CONSTANTS

Specification	Units	Value
**Torque Sensitivity, K_T	oz-in/amp \pm 10%	7
Back EMF, K_E	V per rad/s \pm 10%	0.049
Terminal Resistance, R_M	ohms \pm 10%	40
Terminal Inductance, L_M	mH \pm 30%	3.7
Voltage, Stalled at Peak Torque, V_P	volts	8
Amps at Peak Torque, I_P	amps	0.20

MECHANICAL DIMENSIONS (INCHES)

