

DB-2480-A-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	7.4
Motor Constant, K_M	oz-in / \sqrt{W}	2.73
Number of Poles		10
Number of Phases		1“Y”
Weight	oz (nom)	3.3
Motor Inertia, J_M	oz-in-s ²	2.90E-04
Friction Torque, T_F	oz-in	0.30
Electrical Time Constant, T_E	ms	0.27
Mechanical Time Constant, T_M	ms	5.52
Temperature Rise, TPR	°C / W	14.4
Integral Feedback Device		No

MOTOR WINDING CONSTANTS

Specification	Units	Value
**Torque Sensitivity, K_T	oz-in/amp $\pm 10\%$	49.0
Back EMF, K_E	V per rad/s $\pm 10\%$	0.346
Terminal Resistance, R_M	ohms $\pm 10\%$	323
Terminal Inductance, L_M	mH $\pm 30\%$	88
Voltage, Stalled at Peak Torque, V_P	volts	48.5
Amps at Peak Torque, I_P	amps	0.15

MECHANICAL DIMENSIONS (INCHES)

