

DB-1840-K-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	243.9
Motor Constant, K_M	oz-in / \sqrt{W}	11.85
Number of Poles		6
Number of Phases		3"Y"
Weight	oz (nom)	14
Motor Inertia, J_M	oz-in-s ²	4.80E-04
Friction Torque, T_F	oz-in	1.8
Electrical Time Constant, T_E	ms	0.884
Mechanical Time Constant, T_M	ms	0.48
*Temperature Rise, TPR'	°C / W	2
Integral Feedback Device		Halls

MOTOR WINDING CONSTANTS

Specification	Units	Value
**Torque Sensitivity, K_T	oz-in/amp \pm 10%	7.77
Back EMF, K_E	V per rad/s \pm 10%	0.055
Terminal Resistance, R_M	ohms \pm 10%	0.43
Terminal Inductance, L_M	mH \pm 30%	0.38
Voltage, Stalled at Peak Torque, V_P	volts	13.5
Amps at Peak Torque, I_P	amps	31.4

MECHANICAL DIMENSIONS (INCHES)

