

DB-3730-B-1ES SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	179
Motor Constant, K_M	oz-in / \sqrt{W}	14.9
Number of Poles		10
Number of Phases		1
Weight	oz (nom)	11.3
Motor Inertia, J_M	oz-in-s ²	2.60E-02
Friction Torque, T_F	oz-in	4.5
Electrical Time Constant, T_E	ms	0.33
Mechanical Time Constant, T_M	ms	16.67
*Temperature Rise, TPR'	°C / W	5.9
Integral Feedback Device		No

MOTOR WINDING CONSTANTS

Specification	Units	Value
**Torque Sensitivity, K_T	oz-in/amp \pm 10%	47.0
Back EMF, K_E	V per rad/s \pm 10%	0.332
Terminal Resistance, R_M	ohms \pm 10%	10.0
Terminal Inductance, L_M	mH \pm 30%	3.3
Voltage, Stalled at Peak Torque, V_P	volts	38.1
Amps at Peak Torque, I_P	amps	3.81

MECHANICAL DIMENSIONS (INCHES)

