

DB-2180-A-1S SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_p	oz-in	230
Motor Constant, K_M	oz-in / \sqrt{W}	13.9
Number of Poles		16
Number of Phases		3"Y"
Weight	oz (nom)	8
Motor Inertia, J_M	oz-in-s ²	5.00E-03
Friction Torque, T_F	oz-in	4.0
Electrical Time Constant, T_E	ms	0.17
Mechanical Time Constant, T_M	ms	3.65
Temperature Rise, TPR	°C / W	5.5
Integral Feedback Device		No

MOTOR WINDING CONSTANTS

Specification	Units	Value
**Torque Sensitivity, K_T	oz-in/amp \pm 10%	19.2
Back EMF, K_E	V per rad/s \pm 10%	0.136
Terminal Resistance, R_M	ohms \pm 10%	1.90
Terminal Inductance, L_M	mH \pm 30%	0.32
Voltage, Stalled at Peak Torque, V_p	volts	22.8
Amps at Peak Torque, I_p	amps	12.0

MECHANICAL DIMENSIONS (INCHES)

