

DB-1890-A-1S SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	45
Motor Constant, K_M	oz-in / \sqrt{W}	2.52
Number of Poles		16
Number of Phases		3"Y"
Weight	oz (nom)	1.8
Motor Inertia, J_M	oz-in-s ²	9.00E-04
Friction Torque, T_F	oz-in	2.0
Electrical Time Constant, T_E	ms	0.04
Mechanical Time Constant, T_M	ms	20.11
*Temperature Rise, TPR'	°C / W	18.5
Integral Feedback Device		No

MOTOR WINDING CONSTANTS

Specification	Units	Value
**Torque Sensitivity, K_T	oz-in/amp \pm 10%	3.90
Back EMF, K_E	V per rad/s \pm 10%	0.028
Terminal Resistance, R_M	ohms \pm 10%	2.40
Terminal Inductance, L_M	mH \pm 30%	0.11
Voltage, Stalled at Peak Torque, V_P	volts	27.8
Amps at Peak Torque, I_P	amps	11.6

MECHANICAL DIMENSIONS (INCHES)

