

# 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 / W	2.52
Number of Poles		16
Number of Phases		3-Y"
Weight	oz (nom)	1.8
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	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

## MECHANICAL DIMENSIONS (INCHES)