

DB-1890-A-1S SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, T_P	45	oz-in
Motor Constant, K_M	2.52	oz-in/ \sqrt{W}
Number of Poles	16	
Number of Phases	3"Y"	
Weight	1.8	oz (nom)
Motor Inertia, J_M	9.00E-04	oz-in-s ²
Friction Torque, T_F	2.0	oz-in
Electrical Time Constant, τ_E	0.04	ms
Mechanical Time Constant, τ_M	20.11	ms
Temperature Rise, Housed TPR'	18.5	°C/W
Sensors	No	
Winding Constants	Value	Units
Torque Sensitivity, K_T	3.90	oz-in/amp
Back EMF, K_E	0.028	V per rad/s
Terminal Resistance, R_M	2.40	ohms (nom)
Terminal Inductance, L_M	0.11	mH (nom)
Voltage, Stalled at Peak Torque, V_P	27.8	volts
Amps at Peak Torque, I_P	11.6	amps

DB-1890-A-1S Typical Outline Drawing

