

# DB-12600-A-1ES Specifications

## DB-12600-A-1ESC SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, $T_p$	21248	oz-in
Motor Constant, $K_M$	973	oz-in/ $\sqrt{W}$
Number of Poles	32	
Number of Phases	3"Y"	
Weight	528	oz (nom)
Motor Inertia, $J_M$	7.14	oz-in-s <sup>2</sup>
Friction Torque, $T_F$	16	oz-in
Electrical Time Constant, $\tau_E$	6	ms
Mechanical Time Constant, $\tau_M$	1.07	ms
Temperature Rise, Housed TPR'	0.43	°C/W
Sensors	No	
Winding Constants	Value	Units
Torque Sensitivity, $K_T$	2656	oz-in/amp
Back EMF, $K_E$	18.8	V per rad/s
Terminal Resistance, $R_M$	7.45	ohms (nom)
Terminal Inductance, $L_M$	45	mH (nom)
Voltage, Stalled at Peak Torque, $V_p$	60	volts
Amps at Peak Torque, $I_p$	8.0	amps

### DB-12600-A-1ESC Typical Outline Drawing

