

Brushless Torque Motors

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 ²
Friction Torque, T_F	16	oz-in
Electrical Time Constant, τ_E	6	ms
Mechanical Time Constant, τ_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

