

TD-4580-B-2S / K059 SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	120
Motor Constant, K_M	oz-in / \sqrt{W}	33.17
Excursion Angle	degrees	± 5
Number of Poles		6
Weight	oz (nom)	30.5
Motor Inertia, J_M	oz-in-s ²	3.20E-02
Friction Torque, T_F	oz-in	6
Electrical Time Constant, T_E	ms	1.364
Mechanical Time Constant, T_M	ms	4.12

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in/amp	110
Back EMF, K_E	V per rad/s	0.777
Terminal Resistance, R_M	ohms (nom)	11
Terminal Inductance, L_M	mH (nom)	15
Voltage, Stalled at Peak Torque, V_P	volts	17
Amps at Peak Torque, I_P	amps	1.55

MECHANICAL DIMENSIONS (INCHES)

