

D-3029-A-2EN SPECIFICATIONS

MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, T_P	oz-in	37
Motor Constant, K_M	oz-in / \sqrt{W}	7.85
Number of Poles		10
Weight	oz (nom)	6.5
Motor Inertia, J_M	oz-in-s ²	1.24E-02
Friction Torque, T_F	oz-in	1
Electrical Time Constant, T_E	ms	0.50
Mechanical Time Constant, T_M	ms	28.46
Temperature Rise, TPR ¹	°C / W	8.0
Ripple Torque, T_R	max. avg. to peak (%)	5

MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, K_T	oz-in / amp	43
Back EMF, K_E	V per rad/s	0.304
Terminal Resistance, R_M	ohms (nom)	30
Terminal Inductance, L_M	mH (nom)	15
Voltage, Stalled at Peak Torque, V_P	volts	26
Amps at Peak Torque, I_P	amps	0.87

MECHANICAL DIMENSIONS (INCHES)

