

# TD-1375-D-1 Specifications

## TD-1375-D-1 SPECIFICATIONS @ 25°C

Size Constants	Value	Units
Peak Torque, $T_P$	5.5	oz-in
Motor Constant, $K_M$	1.06	oz-in/ $\sqrt{W}$
Excursion Angle	$\pm 35$	degrees
Number of Poles	2	
Weight	1.8	oz (nom)
Motor Inertia, $J_M$	2.10E-04	oz-in-s <sup>2</sup>
Friction Torque, $T_F$	0.06	oz-in
Electrical Time Constant, $\tau_E$	2.500	ms
Mechanical Time Constant, $\tau_M$	23.50	ms
Winding Constants	Value	Units
Torque Sensitivity, $K_T$	3.3	oz-in/amp
Back EMF, $K_E$	0.026	V per rad/s
Terminal Resistance, $R_M$	9.6	ohms (nom)
Terminal Inductance, $L_M$	24	mH (nom)
Voltage, Stalled at Peak Torque, $V_P$	20.2	volts
Amps at Peak Torque, $I_P$	2	amps

Direct Drive  
Brushless Motors

### TD-1375-D-1 Typical Outline Drawing

