

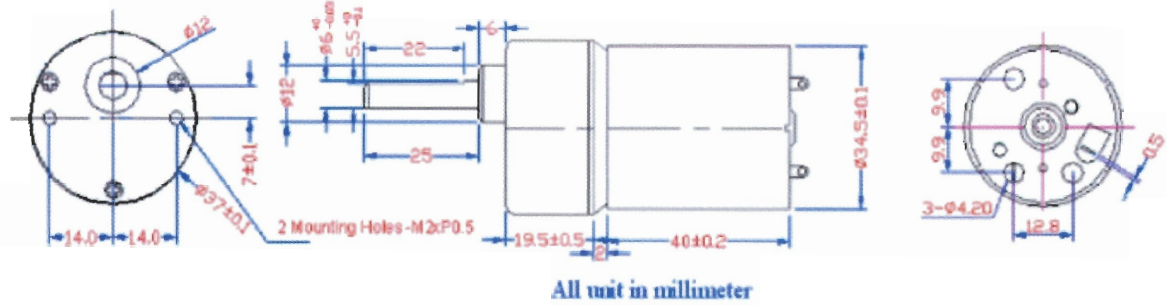
Appendix three – DC geared motor specification

TETRIX DRIVE MOTOR Dynamic Test Report

Product: DC Gear Motor
 Customer: Pitsco
 Mode NO.: HG372F280-052F
 Test Date: 2008/05/12

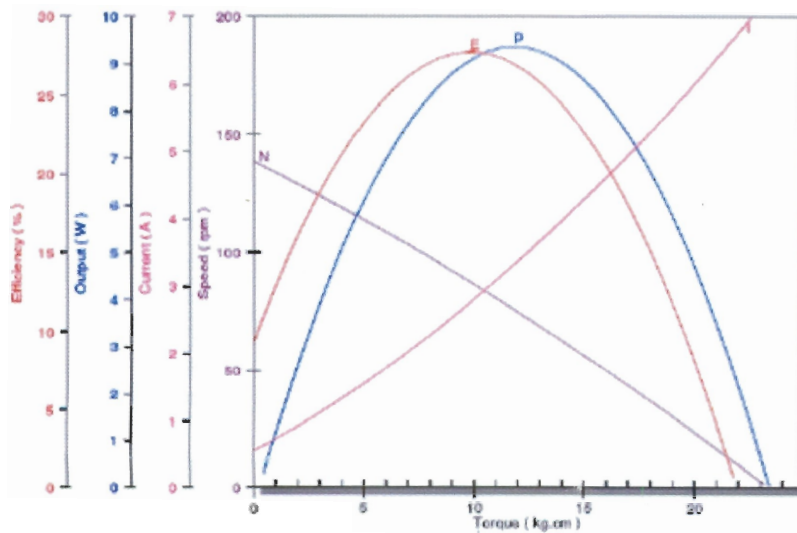
Rated Voltage: 12 VDC
 No Load Speed: 154 RPM
 No Load Current: 0.428 A
 Gear Ratio: 1:52

(A) Dimensional Figures:



(B) MOTOR PERFORMANCE CURVES AND CHARACTERISTICS:

Supply Voltage = 12 VDC



AT NO LOAD

SPEED = 138.7 RPM
 CURRENT = 0.54 AMP

AT STALL EXTRAPOLATION

TORQUE = 23.40 kg-cm
 CURRENT = 7.30 AMP

AT MAXIMUM EFFICIENCY

EFFICIENCY = 27.74 %
 SPEED = 88.0 RPM
 TORQUE = 9.77 kg-cm
 CURRENT = 2.75 AMP
 OUTPUT = 9.06 WATTS

AT MAXIMUM OUTPUT

SPEED = 76.1 RPM
 TORQUE = 11.81 kg-cm
 CURRENT = 3.32 AMP
 OUTPUT = 9.36 WATTS
 EFFICIENCY = 27.01 %

Torque Conversions:
 1.0 kgf-cm = 0.098 Nm = 98 mNm
 = 13.887 oz-in = 0.867 lb-in

PREPARED BY: _____ APPROVED BY: _____