



Technical drawing of a mechanical part, showing top and side views with dimensions and tolerances.

Top View Dimensions:

- Overall width: 56.49 ± 0.38 / $2.224 \pm .015$
- Overall height: 49.48 ± 0.10 / $1.948 \pm .004$
- Inner circular feature diameter: $\phi 3.51 \pm 0.13$ / $\phi .138 \pm .005$ (12v)
- 45° chamfer

Side View Dimensions:

- Top flange thickness: 11.43 ± 0.38 / $.450 \pm .015$
- Top flange outer diameter: 15.50 / $.610$ MAX
- Distance from top flange to center: 1.52 ± 0.13 / $.060 \pm .005$
- Distance from top flange to bottom flange: 0.81 ± 0.05 / $.032 \pm .002$
- Bottom flange thickness: 3.40 / $.134$ MAX
- Bottom flange outer diameter: $\phi 42.01$ / $\phi 1.654$ MAX
- Distance from bottom flange to center: 304.8 ± 12.7 / $12.00 \pm .50$
- Distance from bottom flange to top flange: 12.7 ± 3.3 / $.50 \pm .13$

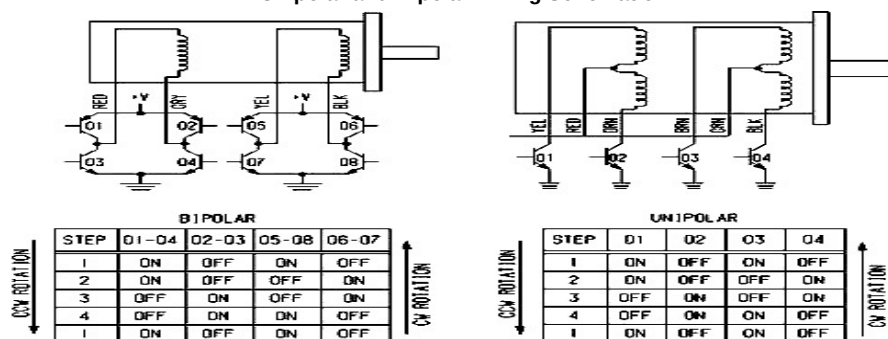
Internal Features and Tolerances:

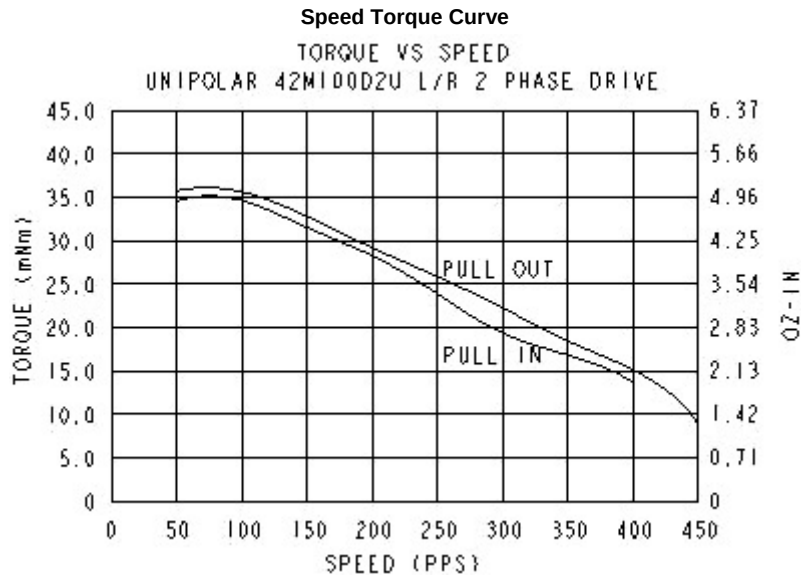
- Internal hole diameter: $\phi 10.000$ / -0.051
- Internal hole diameter: $\phi .3937$ / $-.0020$
- Internal hole diameter: $\phi 3.000$ / -0.005
- Internal hole diameter: $\phi .1181$ / $-.0002$

Notes:

- STRIPPED

Unipolar and Bipolar Wiring Schematic





PartNumber	42M100B2U
DC Operating Voltage	12
Res Per Winding (Ohms)	75
Ind per Winding mH	36.7
Holding Torque mN*m/oz-in	49.4/7.0
Rotor Moment of Inertia (g*m ²)	9.5E-4
Detent Torque mN*m/oz-in	11.3/1.60
Step Angle	3.6°
Step Angle Tolerance	±0.4
Steps per Rev	100
Max Operating Temp	100°C
Ambient Temp Range Operating	-20°C to 70°C
Ambient Temp Range Storage	-40°C to 85°C
Bearing Type	Sintered Bronze sleeve
Insulation Res at 500Vdc	100 megohms
Dielectric Withstanding Voltage	650 ± 50 VRMS 60 Hz for 1 to 2 seconds
Weight g/oz	88 g/3.1 oz
Lead Wires	28 AWG, UL Style 3265

*Measured with 2 phases energized

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