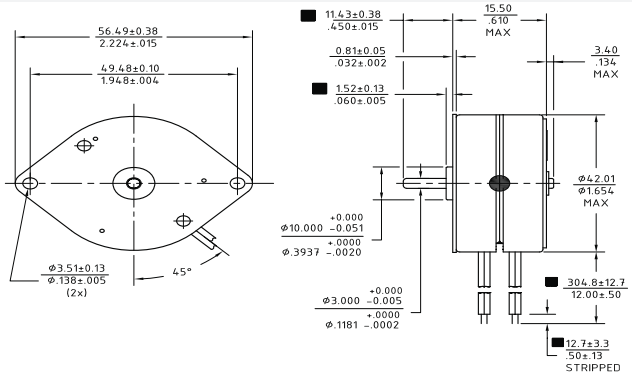
42M100D

RoHS Compliant

Ø42mm 60.7 mNm

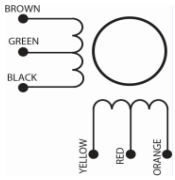


Dimensions in mm

42M100D

	Electrical Data	42M100D1U Unipolar	42M100D2U Unipolar	42M100D1B Bipolar	42M100D2B Bipolar	
1	Operating Voltage	5	12	5	12	VDC
2	Resistance per Phase, ± 10%	12.5	75.0	12.5	75.0	Ohms
3	Inductance per Phase, typ	6.4	36.7	10.8	60.7	mH
4	Rated Current per Phase *	0.40	0.16	0.40	0.16	A
	Coil independent parameters					
5	Holding Torque, MIN *	60.7 (8.6)	60.7 (8.6)	52.2 (7.4)	52.2 (7.4)	mNm (oz-in)
6	Detent Torque, Max		7.1 (1)			mNm (oz-in)
7	Rotor Inertia		9.5 (0.052)			gcm^2 (oz-in-s^2)
8	Step Angle		3.6			Degree
9	Absolute accuracy 2 ph. On, Full step		±0.5			Degree
10	Steps per Revolution		100.0			
11	Ambient Temp Range (operating)		-20 TO 70 (-4 TO 158)			°C (°F)
12	Maximum Coil Temperature		130 (266)			°C (°F)
13	Bearing Type		Sintered Bronze Sleeve			
14	Insulation Resistance at 500 VDC		100.0			Mohms
15	Dielectric Withstanding Voltage		650±50 VRMS for 2 seconds			VAC
16	Weight		87.89 (3.1)			g (oz)
17	Leadwire		AWG#28, UL3265 (125°C, 150V)			
	All Motor Data Values at 20°C Unless Otherwise Specified					

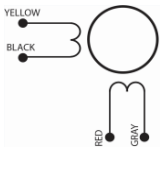
* Energize at Rated Current, 2 Phase On



UNIPOLAR COIL				
YELLOW	ORANGE	BROWN	BLACK	RED/GREEN
+	-	+	-	+
+	-	-	+	+
-	+	-	+	+
-	+	+	-	+
+	-	+	-	+

CW ↓ ↑ CC

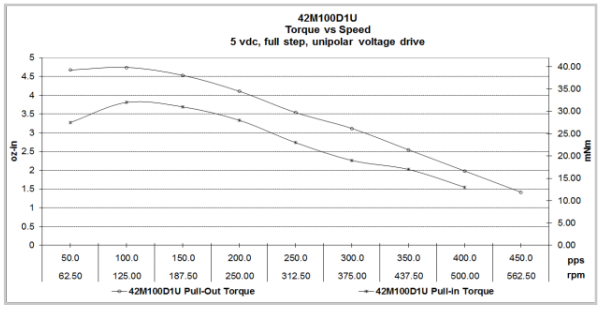
VIEWED FROM OUTPUT SHAFT

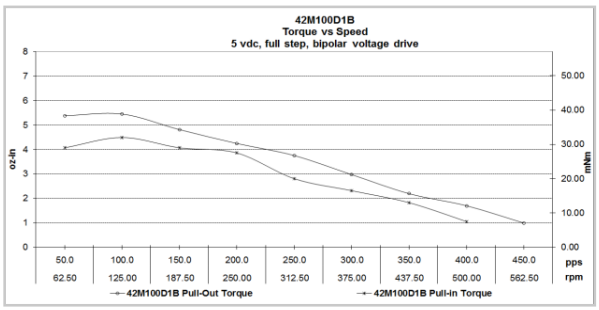


BIPOLAR COIL			
RED	GRAY	YELLOW	BLACK
+	-	+	-
+	-	-	+
-	+	-	+
-	+	+	-
+	-	+	-

CW ↓ ↑ CCW

VIEWED FROM OUTPUT SHAFT





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