

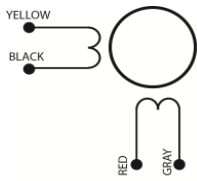
DIMENSIONS: MILLIMETERS
INCHES

42M048C

Electrical Data	42M048C1U Unipolar	42M048C2U Unipolar	42M048C1B Bipolar	42M048C2B Bipolar	
1 Operating Voltage	5	12	5	12	VDC
2 Resistance per Phase, ± 10%	9.1	52.4	9.1	52.4	Ohms
3 Inductance per Phase, typ	8.1	51.7	16.7	85.7	mH
4 Rated Current per Phase *	0.55	0.23	0.55	0.23	A
Coil independent parameters					
5 Holding Torque, MIN *	66.2 (9.4)	66.2 (9.4)	83.8 (11.9)	83.8 (11.9)	mNm (oz-in)
6 Detent Torque, Max	12.7 (1.8)	12.7 (1.8)	12.7 (1.8)	12.7 (1.8)	mNm (oz-in)
7 Rotor inertia	12.5 (0.068)	12.5 (0.068)	12.5 (0.068)	12.5 (0.068)	(gcm ²) (oz-in-s ²)
8 Step Angle	7.5	7.5	7.5	7.5	Degree
9 Absolute accuracy 2 ph. On, Full step	± .5	± .5	± .5	± .5	Degree
10 Steps per Revolution	48	48	48	48	
11 Ambient Temp Range (operating)	-20 to +70 (-4 to +158)	-20 to +70 (-4 to +158)	-20 to +70 (-4 to +158)	-20 to +70 (-4 to +158)	°C (°F)
12 Maximum Coil Temperature	130 (266)	130 (266)	130 (266)	130 (266)	°C (°F)
13 Bearing Type	Sintered Bronze Sleeve	Sintered Bronze Sleeve	Sintered Bronze Sleeve	Sintered Bronze Sleeve	
14 Insulation Resistance at 500 VDC	100	100	100	100	Mohms
15 Dielectric Withstanding Voltage	650 for 2 seconds	650 for 2 seconds	650 for 2 seconds	650 for 2 seconds	VAC
16 Weight	145 (5.1)	145 (5.1)	145 (5.1)	145 (5.1)	g (oz)
17 Leadwire	AWG 26, UL 1430	AWG 26, UL 1430	AWG 26, UL 1430	AWG 26, UL 1430	

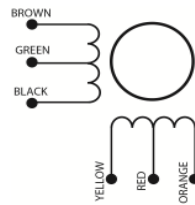
All Motor Data Values at 20°C Unless Otherwise Specified

* Energize at Rated Current, 2 Phase On



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

VIEWED FROM OUTPUT SHAFT



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

VIEWED FROM OUTPUT SHAFT