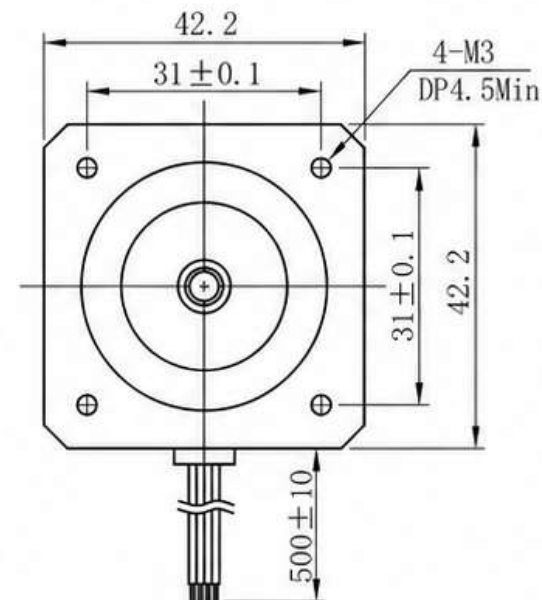
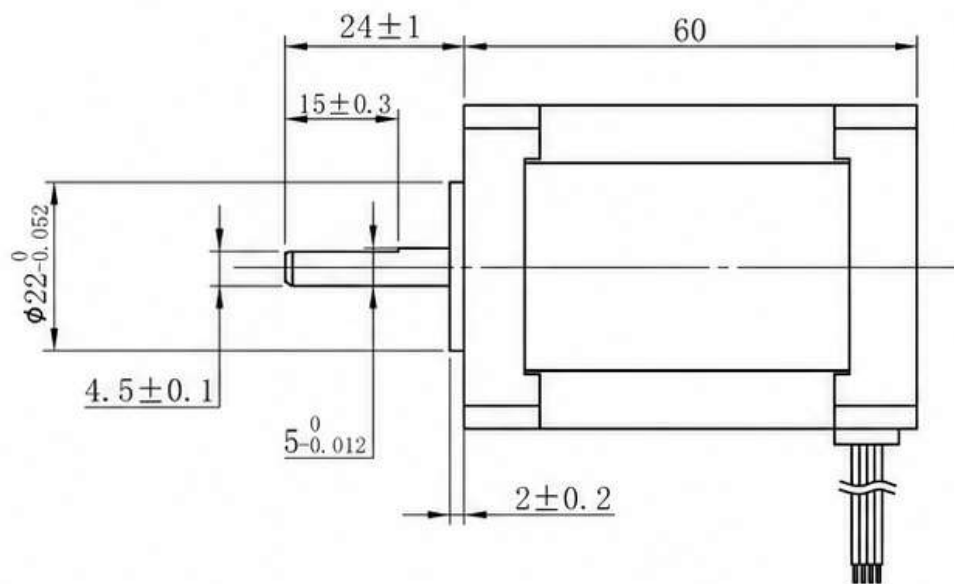
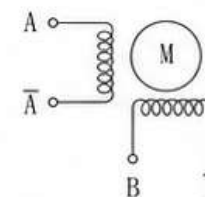




SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VOC)		5.40
AMPS/PHASE		2.10
RESISTANCE (Ohms) @25°C		1.60 ± 10%
INDUCTANCE/PHASE (mh) @1KHz		3.00 ± 20%
HOLDING TORQUE (Nm) [lb-in]		0.65 [5.75]
STEP ANGLE (°)		1.80
STEP ACCURACY (NON-ACCUM)		± 5.00%
TEMPERATURE RISE: MAX. 80°C (MOTOR STANDSTILL: FOR 2PHASE ENERGIZED)		
AMBIENT TEMPERATURE -10°C~50°C [14°F~122°F]		
INSULATION RESISTANCE 100 Mohm (UNDER NORMAL TEMPERATURE AND HUMIDITY)		
INSULATION CLASS B 130°C [266°F]		
DIELECTRIC STRENGTH 500VAC FOR 1MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)		
AMBIENT HUMIDITY MAX, 85% (NO CONDENSATION)		
 Shenzhen Kechen Micro Motor Technology Co., Ltd.		

TYPE OF CONNEVTION (EXTERN)				
PIN NO	1	2	3	4
LEADS	BLACK	GREEN	RED	BLUE
BIPOLAR	A	$\bar{A}$	B	$\bar{B}$

WHEN FACING MOUNTING FCD(X)					
STEP	A	B	$\bar{A}$	$\bar{B}$	
1	+	+	-	-	CCW 
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	



DESIGN	CHECKED BY	APPROVED BY	REVISION RECORD		
			MATERIAL		A4
			MODEL	SCALE	1:1
			KC-42HYB60	SHEET 1	TOTAL SHEETS 1
Unless otherwise specified, dimensions are in millimeters, tolerances are as shown, and this document is subject to change without notice. Please do not scale the drawing.			DRAWING NAME		
			Hybrid stepper motor outline drawing		
			DRAWING NO.		



Electrical Specification	
Model	42HB-60L
Product Name	Nema 17 Stepper Motor
Motor Type	Bipolar Stepper
Body Length	60mm
Driving Voltage	12V/24V(DC)
Rated Current/phase	2.5A
Step Angle(degrees)	1.8°
Phase	2
Phase Resistance	2.6ohms
Shaft Diameter	5mm(D Shaft 4.5mm)
Shaft length	20mm
Holding Torque	11kg.cm
Application	3D printer, CNC machine, laser engraving, medical equipment, and other automation systems
Number of Leads	4
Connection	A+: Black, A-: Green, B+: Red, B-: Blue
Weight	471g
Manufacturer	KECHEN MOTOR