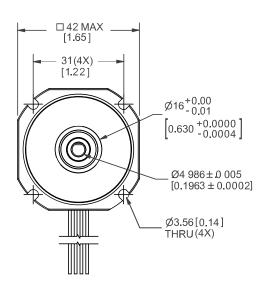
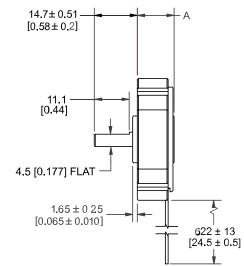




DIMENSIONS

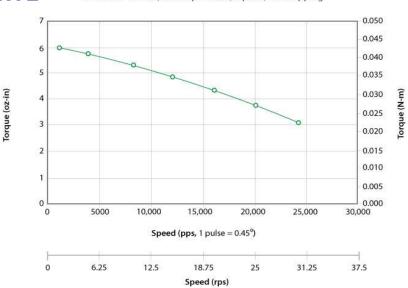


Part Number	WO-4109X-51
Step Angle	0.9°
Frame Size	NEMA 17
Body Length (Dim. A)	0.58 in (15 mm)
Current	0.6 Amps/Phase
Holding Torque	7.7 oz-in (0.05 Nm)
Resistance	5.6 Ohms/Phase
Rotor Inertia	0.04 oz-in ²
Number of Leads	4
Connection	Bipolar
Weight	0.18 lbs (0.08 kg)



PERFORMANCE CURVE

4109X-51 24VDC, 0.6 Amps/Phase, Bipolar, 1/2 Stepping



OPERATING SPECIFICATIONS

Radial Play	0.001" max @ 1 lbs load
End Play	0.003" max @ 2 lbs load
Shaft Run Out	0.002" TIR
Concentricity of Mounting Pilot to Shaft	0.003" TIR
Perpendicularity of Shaft to Mounting Face	0.003" TIR
Max Axial Load	6 lbs
Maximum Case Temperature	80 C
Ambient Temperature	-20° to 50° C
Storage Temperature	-20° to 100° C
Humidity Range	85% or less, non-condensing
Magnet Wire Insulation	Class B 130° C
Insulation Resistance	100MΩ at 500 VDC
Dielectric Strength	500 VAC for 1 minute

WIRING TABLE

COLOR	FUNCTION	
Red	A+ Phase	
Blue	A- Phase	
Green	B + Phase	
Black	B- Phase	

OPERATION & USAGE TIPS



Do not disassemble motors; a significant reduction in motor performance will occur.



Do not machine shafts; this will have a negative effect on shaft run out and perpendicularity.



Do not disconnect motor from drive while in operation.



Do not use holding torque/detent torque of motor as a fail safe brake.



Do not hold motor by lead wires.



Do not exceed the rated current; this will burn the motor.

FAILURE TO COMPLY WITH THESE RECOMMENDATIONS WILL VOID ALL WARRANTY TERMS

RECOMMENDED



Microstepping Driver R208



Single Axis Controller + Driver R256-RO

Motion Control, Solved.

MOTOR ENGINEERING & MANUFACTURING







Small Batch to OEM Volume Production

