Ø3.56[0.14] THRU(4X) Part Number

Step Angle

Frame Size

Current

Holding Torque

Resistance

Body Length (Dim. A)





WO-4109V-51

0.78 in (19.8 mm)

1.2 Amps/Phase

15 oz-in (0.11 Nm) 3 Ohms/Phase

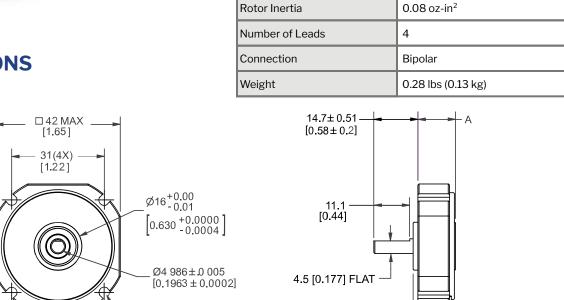
> 622 ± 13 [24.5 ± 0.5]

0.9°

NEMA 17



DIMENSIONS

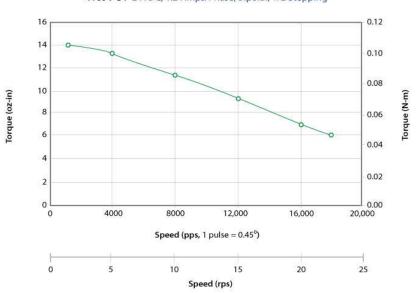


PERFORMANCE CURVE

4109V-51 24VDC, 1.2 Amps/Phase, Bipolar, 1/2 Stepping

 1.65 ± 0.25

 $[0.065 \pm 0.010]$



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

