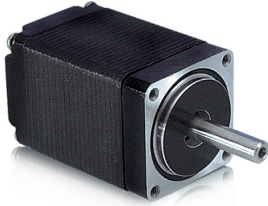
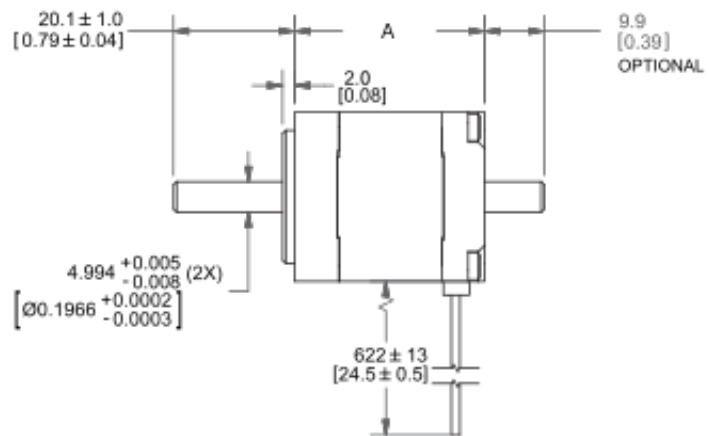
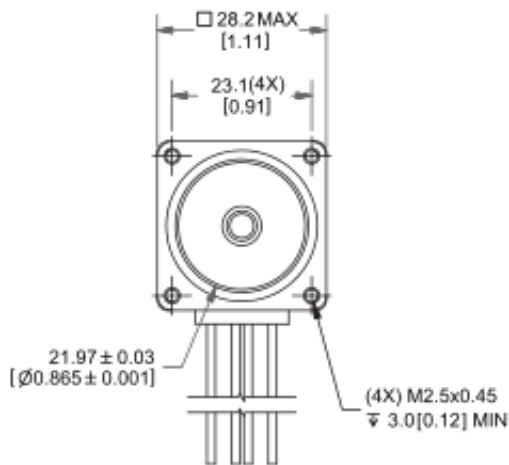


## MOTOR SPECIFICATIONS



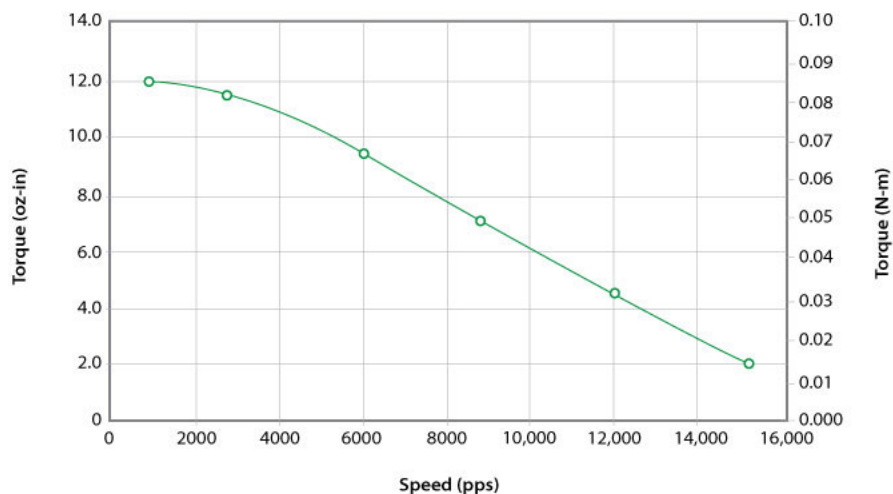
Part Number	<b>WO-211-18-01</b>
Step Angle	1.8°
Frame Size	NEMA 11
Body Length (Dim. A)	1.77 in (45 mm)
Current	0.67 Amps/Phase
Holding Torque	13.7 oz-in (0.1 Nm)
Resistance	7.1 Ohms/Phase
Rotor Inertia	0.07 oz-in <sup>2</sup>
Number of Leads	4
Connection	Bipolar
Weight	0.31 lbs (0.14 kg)

## DIMENSIONS



## PERFORMANCE CURVE

211-18-01 24VDC, 0.67 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	2.25 lbs
Maximum Case Temperature	60 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



Optimized  
For Your  
Application



Quick  
Prototype  
Turnaround



Small Batch  
to OEM Volume  
Production



US Based  
Support &  
Manufacturing