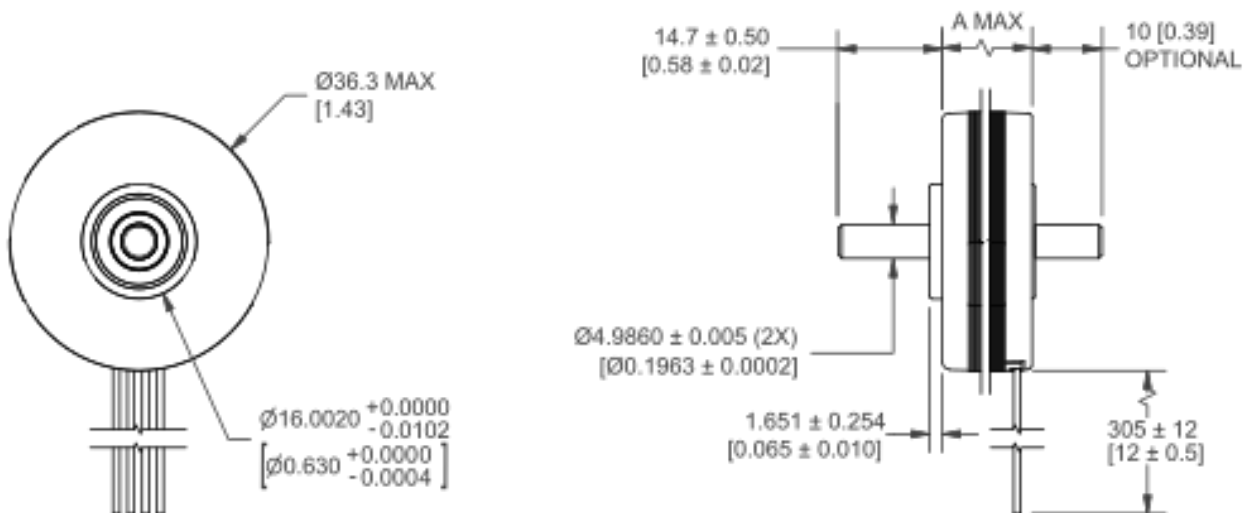


MOTOR SPECIFICATIONS



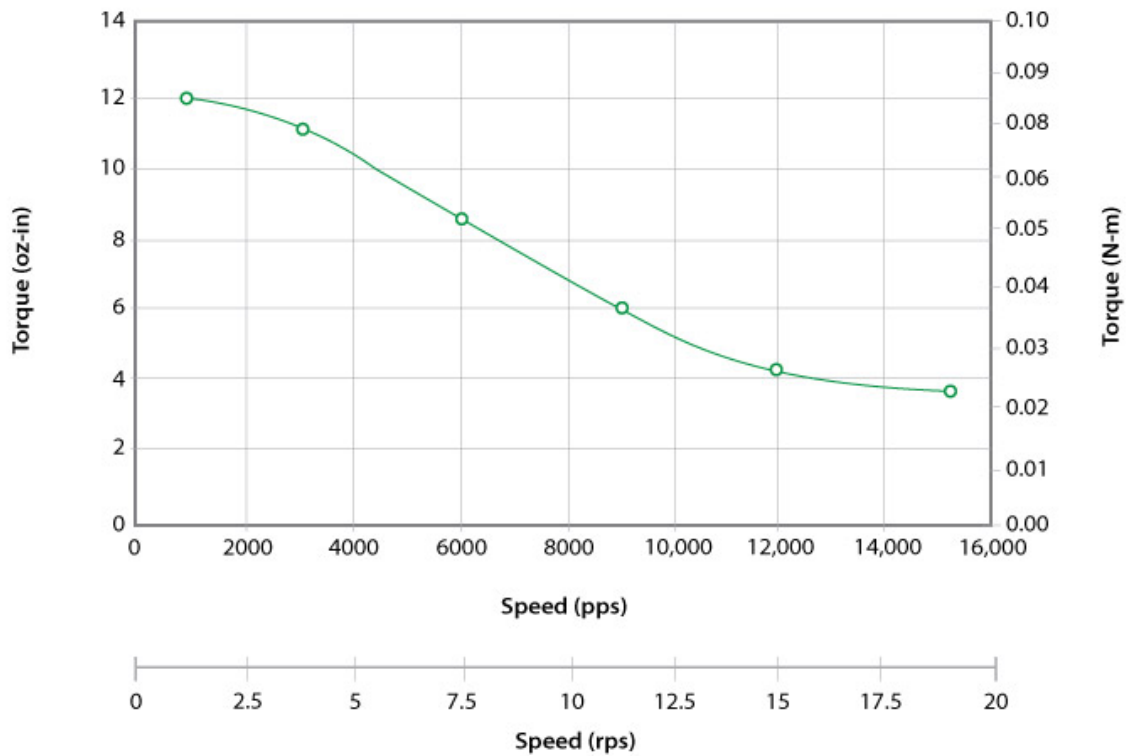
Part Number	3809V-18
NEMA Size	NEMA 14
Frame Size	36.3mm (1.4 in)
Step Angle	0.9 deg/step
Body Length (Dim. A)	19.8mm (0.8 in)
Current	0.6 Amps/Phase
Holding Torque	0.11 Nm (16 oz-in)
Resistance	10 Ohm/Phase
Rotor Inertia	12.81 g-cm ² (0.07 oz-in)
Number of Leads	4
Connection	Bipolar
Weight	0.12 kg (0.27 lb)

DIMENSIONS



PERFORMANCE CURVE

3809V-18 24VDC, 0.6 Amps/Phase, Bipolar, 1/2 Stepping



OPERATING CONDITIONS

Radial Play	0.03 mm max @ 0.45 kg load (0.001 in max @ 1 lb load)
End Play	0.08 mm max @ 1.36 kg load (0.003 in max @ 3 lb load)
Shaft Run Out	0.05 mm TIR (0.002 in TIR)
Concentricity of Mounting Pilot to Shaft	0.08 mm TIR (0.003 in TIR)
Perpendicularity of Shaft to Mounting Face	0.08 mm TIR (0.003 in TIR)
Max Axial Load	2.72 kg (6 lb)
Maximum Case Temperature	80 deg C
Ambient Temperature	-20 to 50 deg C
Storage Temperature	-20 to 100 deg C
Humidity Range	85% or less, non-condensing
Magnet Wire Insulation	Class B 180° C*
Insulation Resistance	100 Ohm at 500 VCD
Dielectric Strength	500 VCD for 1 min

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

WIRING TABLE

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

RECOMMENDED DRIVERS/CONTROLLERS



Single Axis Controller
+ Driver
R256-RO



Microstepping Driver
R208

Motion Control, **Solved.**

MOTOR ENGINEERING & MANUFACTURING



Optimized
For Your
Application



Quick
Prototype
Turnaround



Small Batch
to OEM Volume
Production



US Based
Support &
Manufacturing