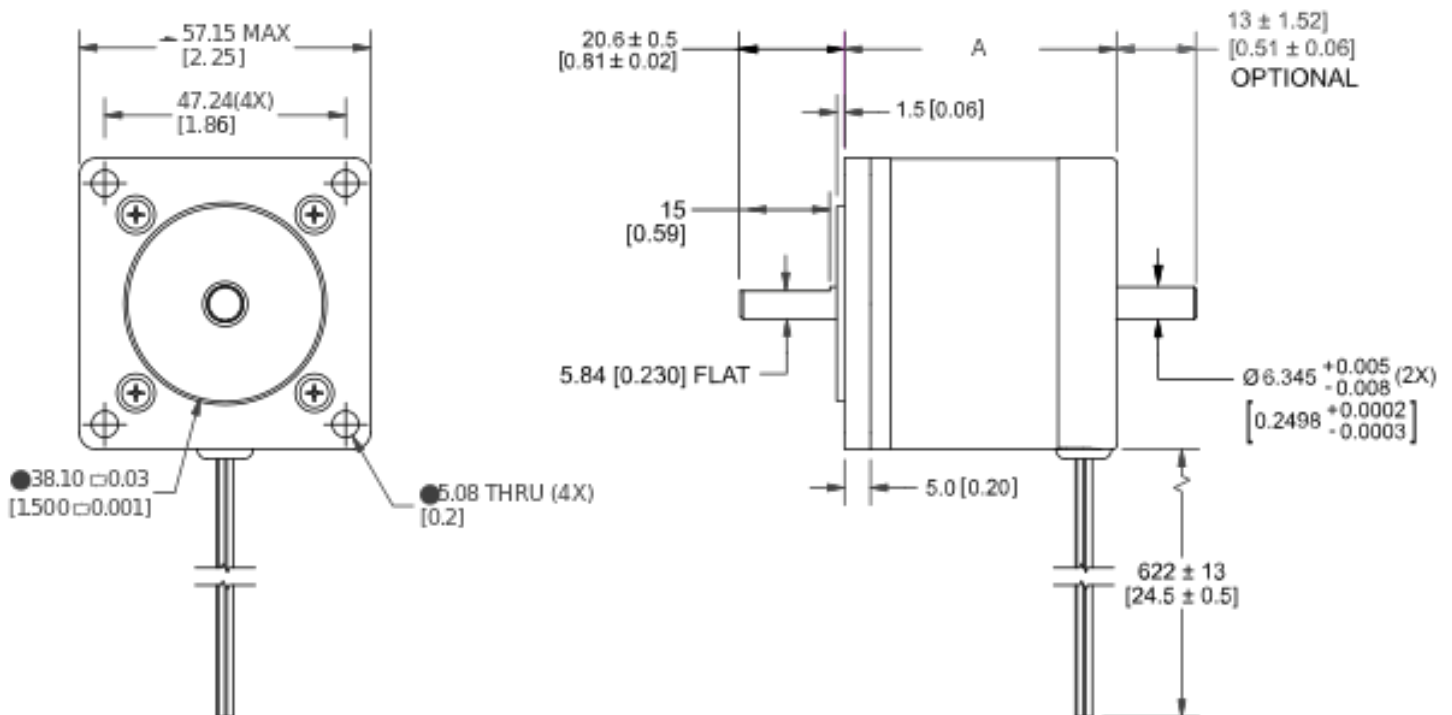


MOTOR SPECIFICATIONS

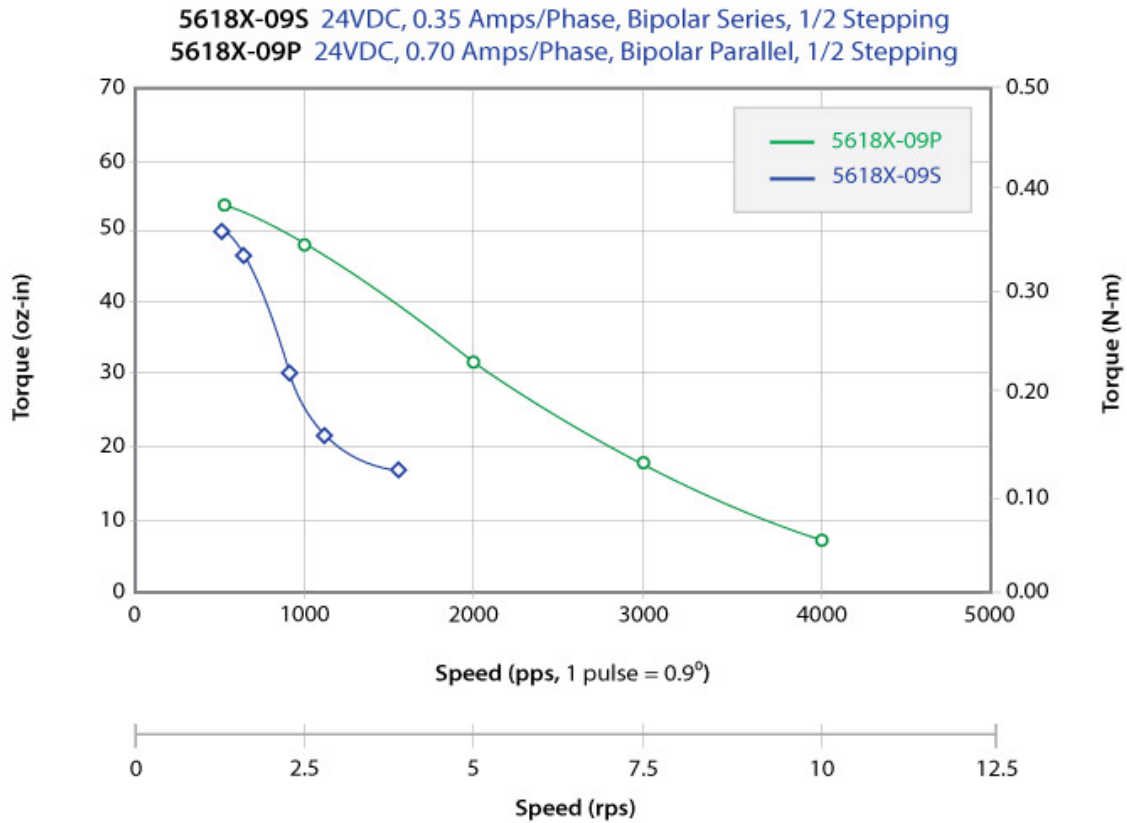


| | |
|-----------------------------|-------------------------------------|
| Part Number | 5618X-09P |
| NEMA Size | NEMA 23 |
| Frame Size | 57.2mm (2.3 in) |
| Step Angle | 1.8 deg/step |
| Body Length (Dim. A) | 41.1mm (1.6 in) |
| Current | 0.7 Amps/Phase |
| Holding Torque | 0.4 Nm (57 oz-in) |
| Resistance | 10 Ohm/Phase |
| Rotor Inertia | 54.88 g-cm ² (0.3 oz-in) |
| Number of Leads | 4 |
| Connection | Parallel |
| Weight | 0.36 kg (0.8 lb) |

DIMENSIONS



PERFORMANCE CURVE



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