LIN ENGINEERING
MOTOR SPECIALISTS IN MOTION
A MOONS' COMPANY

16245 Vineyard Blvd., Morgan Hill, CA 95037
Phone: (408) 919-0200 Fax: (408) 919-0201
Email: sales@linengineering.com | techsupport@linengineering.com
www.linengineering.com

MOTOR SPECIFICATIONS

Part Number	WO-8718M-04S
Step Angle	1.8°
Frame Size	3.39 in (86 mm)
"A" Body Length	3.82in (97.0 mm)
Current (Amps/Phase)	1.4
Holding Torque	861 oz-in (6.1 N-m)
Resistance (Ohms/Phase)	6.7
Rotor Inertia	14.8 oz-in² (2707 g-cm²)
Number of Leads	4
Connection	Bipolar
Weight	5.94 lbs (2.7 kg)

DIMENSIONS

Ø 86.1 MAX [3.39]
69.6 (4X) [2.74]
SCREWS' LOCATION MAY VARY
Ø 73 ⌀ 0.02 [2.875 ⌀ 0.001]
Ø 6.6 THRU (4X) [0.26]

37.10 ⌀ 1.02 [1.46 ⌀ 0.02]   A
2.03 [0.08]
25.4 [1]
11.4 ⌀ 0.15 [0.450 ⌀ 0.006]
FLAT 90° APART (2X)
Ø12.7 +0.005 -0.007 (2X) [0.4998 +0.0002 -0.0003]
10.16 [0.4]
317.5 ⌀ 12.7 [13 ⌀ 1]

PERFORMANCE CURVE

8718M-04S
48 VDC, 1.4 AMP, 1/2 stepping
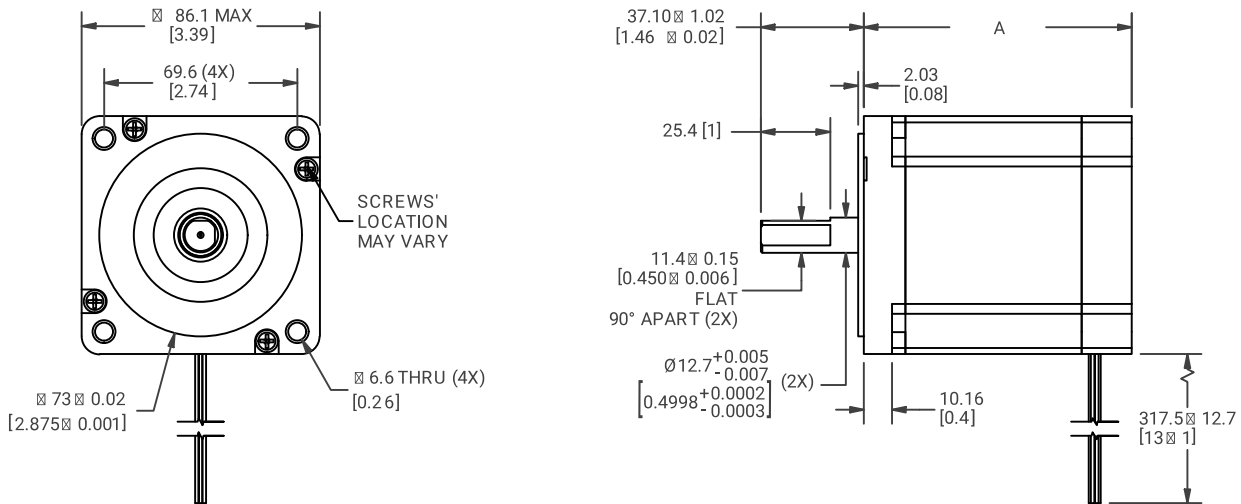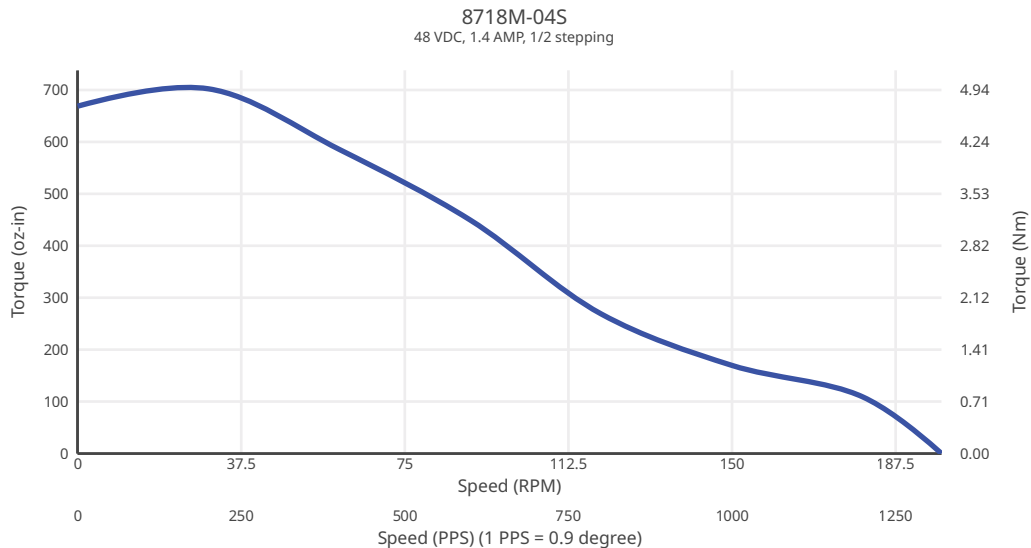
OPERATING SPECIFICATIONS

Radial Play	0.001 in @ 1.00 lbs (0.03 mm @ 0.45 kg)
End Play	0.003 in @ 3.00 lbs (0.08 mm @ 1.36 kg)
Shaft Run Out	0.05 TIR (0.002 TIR)
Concentricity of Mounting Pilot to Shaft	0.08 TIR (0.003 TIR)
Perpendicularity of Mounting Pilot to Face	0.08 TIR (0.003 TIR)
Max Radial Load at Dimension "K" from mounting face	39.00 lbs (17.69 kg)
Dimension"K"	0.90 in (22.86 mm)
Max Axial Load	25.00 lbs (11.34 kg)
Maximum Case Temperature	176°F (80°C) Maximum
Ambient Temperature	-4 to 122°F (-20°C to 50°C)
Storage Temperature	-4 to 212°F (-20°C to 100°C)
Humidity Range (%)	85% or less, non-condensing
Magnet Wire Insulation	Class B 266°F (130°C)
Insulation Resistance	100M Ohm at 500 VCD
Dielectric Strength	900 VCD for 1 min.

WIRING TABLE

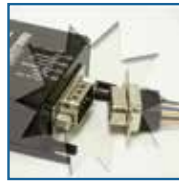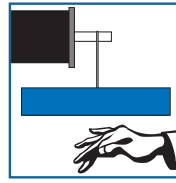| COLOR	FUNCTION
Red	A+ Phase
Blue	A- Phase
Green	B + Phase
Black	B- Phase

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 wil burn the motor.

FAILURE TO COMPLY WITH THESE RECOMMENDATIONS WILL VOID ALL WARRANTY TERMS

RECOMMENDED

Stepper Driver
R701P-RO

Stepper Driver
R725-RO

Single Axis Controller + Driver
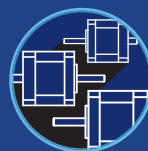**R356**

Motion Control, Solved.
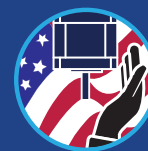## MOTOR ENGINEERING & MANUFACTURING

Optimized For Your Application

Quick Prototype Turnaround

Small Batch to OEM Volume Production

US Based Support & Manufacturing