LIN ENGINEERING
MOTOR SPECIALISTS IN MOTION
A MOONS' COMPANY

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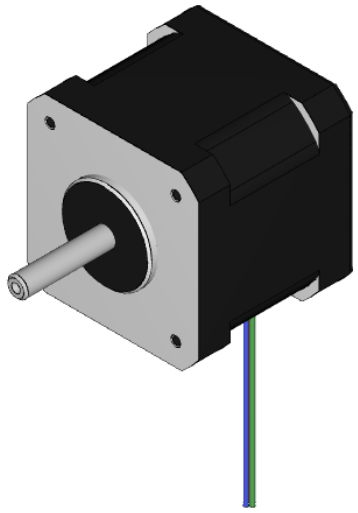


4118 SERIES

# 4118M-06S

HYBRID STEPPER MOTOR

## CONFIGURATION

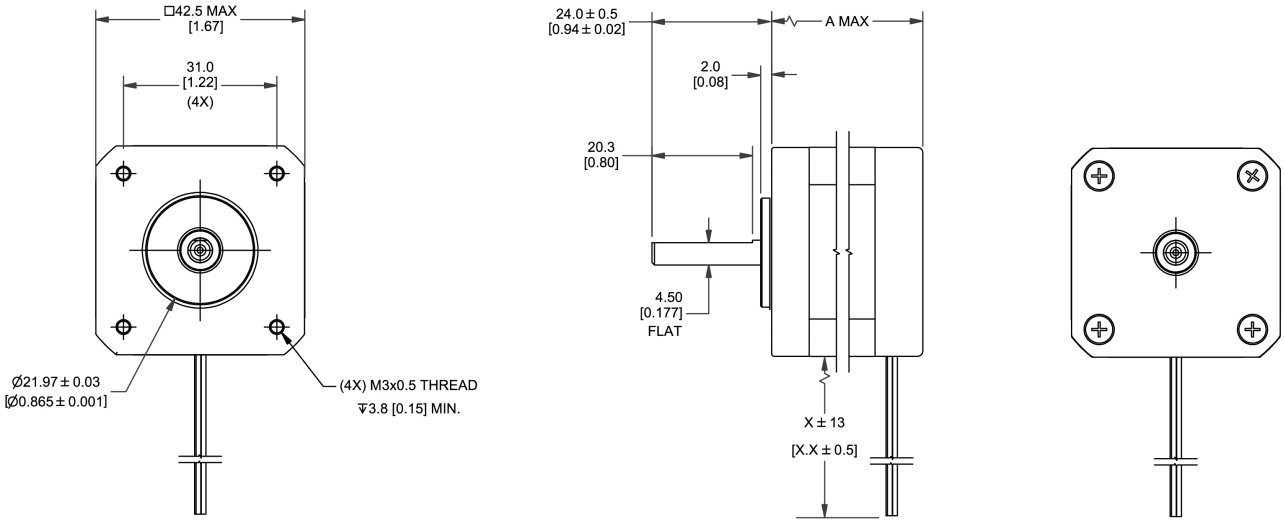
**Gearbox :** No Gearbox
**Shaft :** Single Shaft
**Shaft Option (front shaft) :** Flat Shaft
**Encoder :** No Encoder
**Connector :** Flying Leads
**Leadwire Length :** 24 inch (61.00 cm)

## MOTOR SPECIFICATIONS

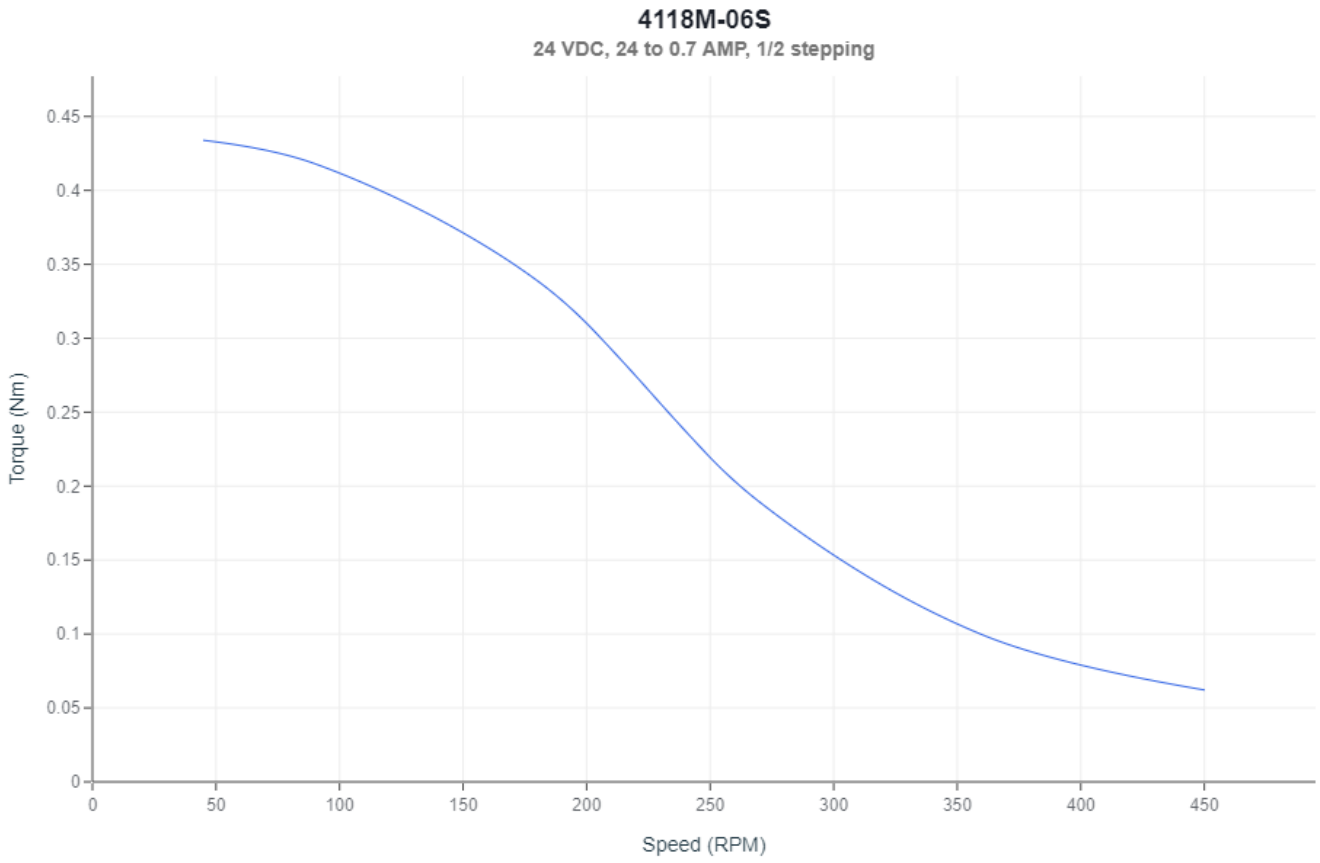
| | |
|---|---|
| **Base Motor Part Number** | 4118M-06S |
| **Configured Motor Part Number** | WO-4118M-06S |
| **Step Angle** | 1.8° |
| **Frame Size** | 42.4 mm |
| **NEMA Size** | NEMA 17 |
| **Body Length** | 40.1 mm |
| **Current (AMP)** | 0.7 AMP |
| **Holding Torque** | 0.44 Nm |
| **Resistance** | 10.8 |
| **Rotor Inertia** | 51.22 g-cm² |
| **Number of leads** | 4 |
| **Connection** | Bipolar |
| **Weight** | 0.273 kg |

# DIMENSIONS

| | |
|---|---|
| **Model** | WO-4118M-06S |
| **DIM. A (length) mm** | 40.1 mm |



## PERFORMANCE CURVE




## OPERATING SPECIFICATIONS

| | |
|---|---|
| **Radial Play** | 0.03 mm @ 0.454 kg |
| **End Play** | 0.08 mm @ 1.361 kg |
| **Shaft Run Out** | 0.05 TIR |
| **Concentricity of Mounting Pilot to Shaft** | 0.08 TIR |
| **Perpendicularity of Mounting Pilot to Face** | 0.08 TIR |
| **Max Radial Load at Dimension "K" from mounting face** | 2.722 kg |
| **Dimension "K"** | 15.75 mm |
| **Max Axial Load** | 2.722 kg |
| **Maximum Case Temperature** | 80.00 °C maximum |
| **Ambient Temperature** | -20.00 ° to 50.00 °C |
| **Storage Temperature** | -20.00 ° to 100.00 °C |
| **Humidity Range (%)** | 85% or less, non-condensing |
| **Magnet Wire Insulation** | Class B 130 deg C |
| **Insulation Resistance** | 100M Ohm at 500 VDC |
| **Dielectric Strength** | 500 VDC for 1 min |

## FEATURES

https://www.youtube.com/embed/4n2C_7a6E54

### Unbeatable Value

The 4118 Series stepper motor is our best-selling stepper motor for numerous reasons: it delivers unbeatable balance between high performance and low price; it offers a high range of customizations; and its wide performance range makes it ideal for many applications.

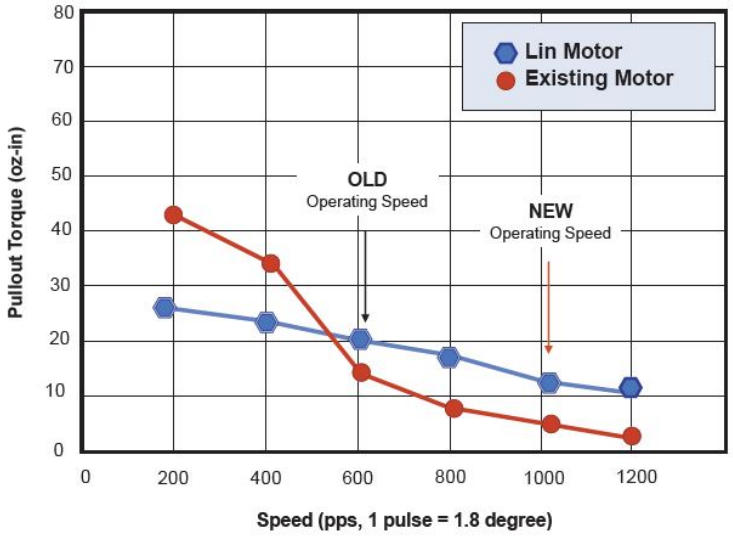
### Versatile performance

The 4118 Series stepper motor is a good fit for wide range of applications. The series is available in many stator lengths, from 1.34" (34mm) to 2.34" (59.4mm). Holding torque ranges from 44 oz-in (0.3 Nm), up to 115 oz-in (0.88 Nm). High range of dynamic torque with speed up to 1200 RPM. And a large selection of windings to meet your specific requirements.

### Lin Engineering Quality

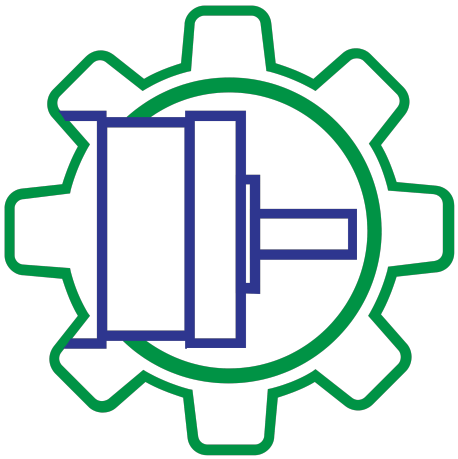
Every component and every motor that leaves our facility must meet our mean value control. Additionally, every motor is tested to meet the required electrical specifications (resistance, inductance, leakage), torque specifications (holding and detent torque), mechanical specification (front shaft extension dimension and overall body length), and any other special feature specification. We want to ensure that your motor delivers the precise specifications you require. This gives you confidence that your motors will perform consistently and reliably within your application.

**Take advantage of our Custom Winding Services**

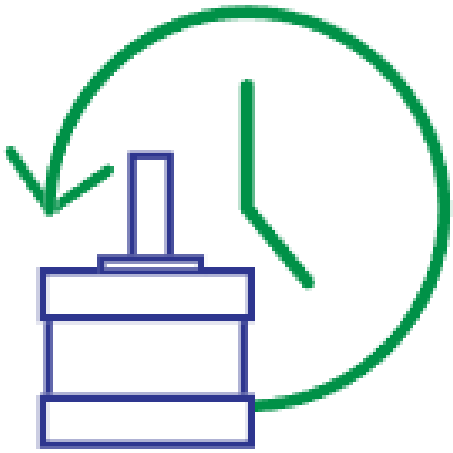



## WHY LIN?

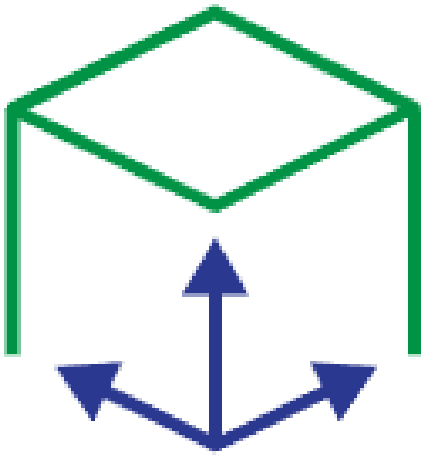
### OEM Motors Optimized For Your Application



**Quick Prototype Turnaround**



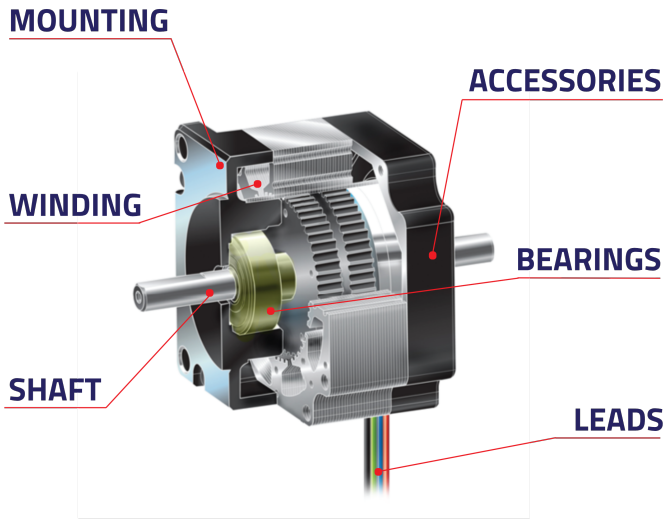
**Small Batch to Large Volume Production**



**US Based Support and Manufacturing**

## MOTOR CUSTOMIZATIONS

Lin Engineering can ensure that your hybrid stepper motor is optimized to deliver the required performance for your specific application, whether it's increasing torque at a specific speed range, reducing noise or vibration, or optimizing for minimal power consumption, or making specific modification  to ensure proper and native fit within your assembly.




Customization Services Include:

- **Optimized Winding**
- **Multiple Shaft Options**
- **Customized Leads & Connectors**
- **Customized Housings & Mountings**
- **Bearings & Lubricants**
- **Mechatronic Solutions**
- **Environmental Protection**
- **Drivers & Controllers, Encoders, Gearboxes & Accessories**

Learn More About Motor Customizations & Optimizations

The result is that you'll get a motor that is fully optimized for your specific applications and configured to seamlessly fit with your assembly. This reduces your product's complexity, and increases the speed and ease of the assembly of your final product.

Speak with one of our sales representatives about your specific application needs by filling out a request for a quote.

# Motion Control, Solved.

## Motor Engineering and Manufacturing

*Optimized For Your Applications*

*Quick Prototype Turnaround*

*Small Batch to OEM Volume Production*

*US Based Support & Manufacturing*