

4118 SERIES

4118S-04P-S05-A0-A24F

HYBRID STEPPER MOTOR

CONFIGURATION

Gearbox : Slim Planetary Gearbox 5:1 ratio

Shaft : Single Shaft

Shaft Option (front shaft) : Flat Shaft

Encoder : No Encoder

Connector : Flying Leads

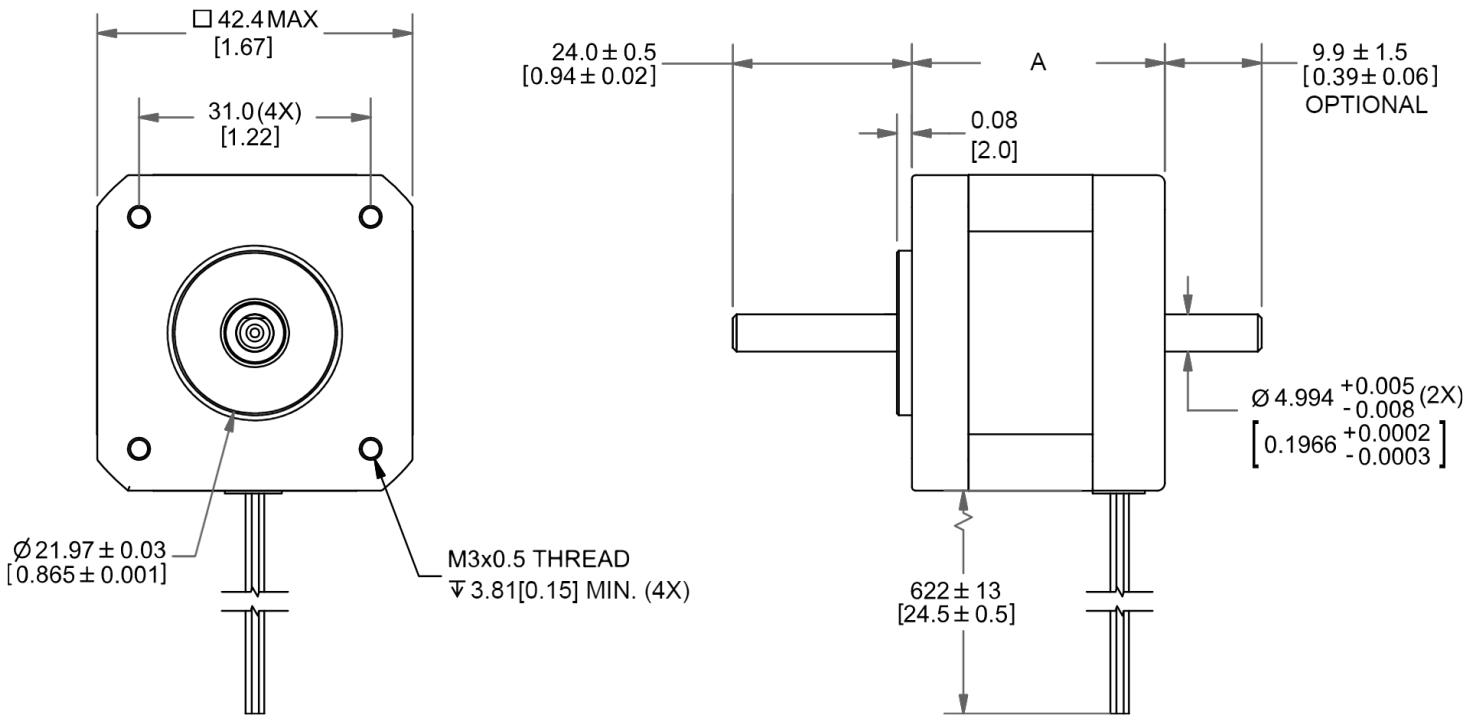
Leadwire Length : 24 inch (61.00 cm)

MOTOR SPECIFICATIONS

Base Motor Part Number	4118S-04P
Configured Motor Part Number	4118S-04P-S05-A0-A24F
Step Angle	1.8°
Frame Size	42.4 mm
NEMA Size	NEMA 17
Body Length (motor only)	34 mm
Current (AMP)	1.34 AMP
Holding Torque (motor only)	0.3 Nm
Holding Torque (with gearbox applied)	1.2 Nm
Resistance	2.5
Rotor Inertia	32.93 g-cm ²
Number of leads	4
Connection	Parallel
Weight (motor only)	0.182 kg
Weight (with all configured parts)	1.182 kg

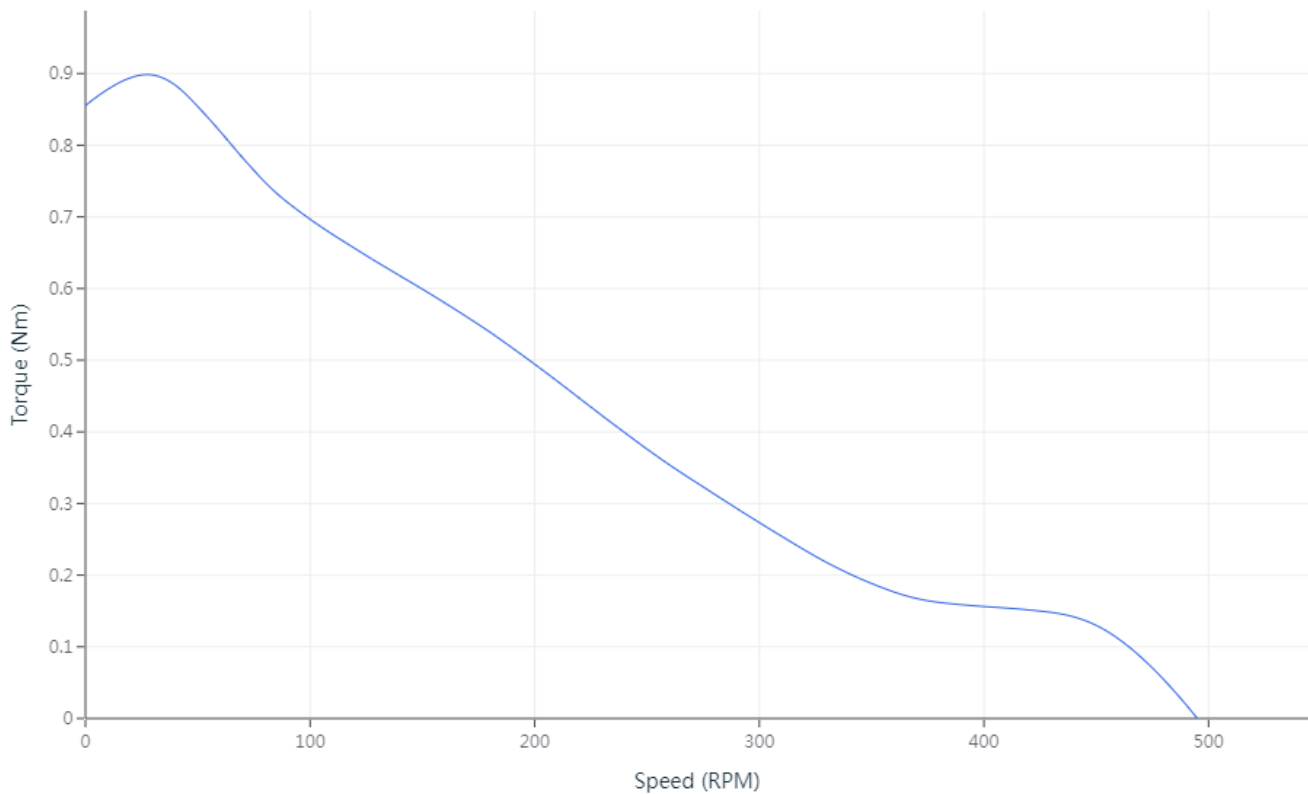
DIMENSIONS

Model	4118S-04P-S05-A0-A24F
DIM. A (length) mm	34 mm



PERFORMANCE CURVE

4118S-04P-S05-A0-A24F
 24 VDC, 24 to 1.34 AMP, 1/2 stepping
 Curve calculation is affected by gearbox (5:1 ratio, 80% efficiency)



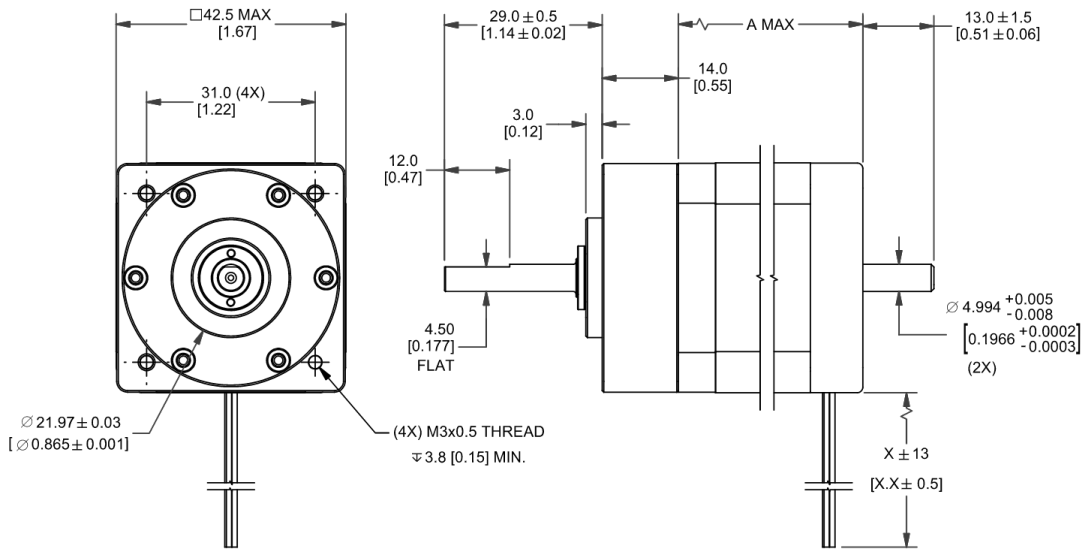
OPERATING SPECIFICATIONS

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

GEARBOX OPTIONS

DESCRIPTION	SPECIFICATION
MAX EFFICIENCY (%)	90%
OPERATIONAL TEMPERATURE	-20 TO 50 deg C
TORQUE RATING (CONTINUOUS) T _c	141 oz-in (1N-m)
GEARHEAD INERTIA (oz-in ²)	4.542 oz-in ²
MAX BACKLASH (arcmin)	+/- 25 arcminutes
GEARHEAD WEIGHT (LBS)	0.22 lbs
MAX RADIAL LOAD RATING AT K DISTANCE	20 lbs
K DISTANCE AWAY FROM MOUNTING FACE	0.2 inches
MAX AXIAL LOAD	50 lbs

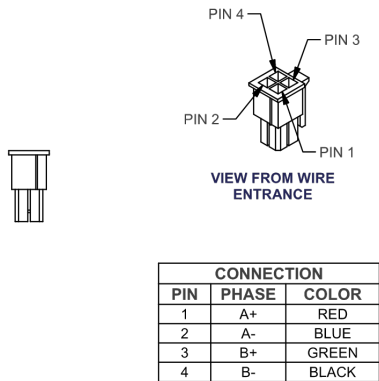
BODY LENGTH (A)	
MODEL	LENGTH
4118S	34.0 [1.34]
4118M	40.1 [1.58]
4118L	48.0 [1.89]
4118C	59.4 [2.34]



[Click Here For More Information](#)

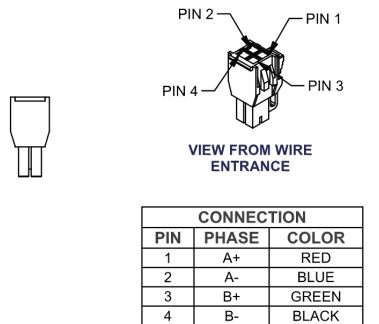
CONNECTOR OPTIONS

Molex Micro Fit



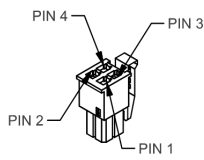
CONNECTOR
MOLEX # 43025-0400
PIN
MOLEX # 43030-0004 (REEL)
MOLEX # 43030-0010 (LOOSE)
(FOR 26 AWG WIRES)
MOLEX # 43030-0001 (REEL)
MOLEX # 43030-0007 (LOOSE)
(FOR 22 AWG WIRES)

Molex Nano Fit



CONNECTOR
MOLEX # 105308-1204
PIN
MOLEX # 105300-1200 (REEL)
(FOR 26 AWG WIRES)
MOLEX # 105300-2300 (REEL)
(FOR 22 AWG WIRES)

TE Micro Fit



VIEW FROM WIRE ENTRANCE

CONNECTION		
PIN	PHASE	COLOR
1	A+	RED
2	A-	BLUE
3	B+	GREEN
4	B-	BLACK



CONNECTOR
TE # 794617-4

PIN
TE # 794611-1(LOOSE)
TE # 794607-1 (REEL)
(FOR 26 AWG WIRES)
TE # 1-794610-1(LOOSE)
TE # 1-794606-1(REEL)
(FOR 22 AWG WIRES)

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.

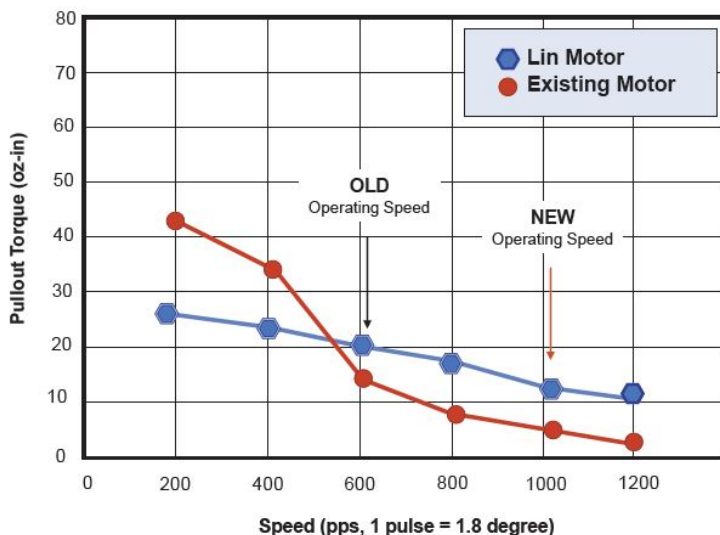
Versatile performance

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



Motion Control, **Solved.**

Motor Engineering and Manufacturing



*Optimized For
Your
Applications*



*Quick Prototype
Turnaround*



*Small Batch to
OEM Volume
Production*



*US Based
Support &
Manufacturing*