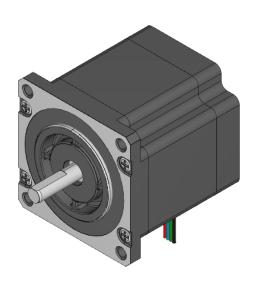


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X5718 SERIES

X5718-055-55

EXTREME TORQUE HYBRID STEPPER MOTOR

CONFIGURATION

Gearbox: No Gearbox **Shaft**: Single Shaft

Shaft Option (front shaft): Flat Shaft

Encoder : No Encoder **Connector :** Flying Leads

Leadwire Length: 12 inch (30.50 cm)

MOTOR SPECIFICATIONS

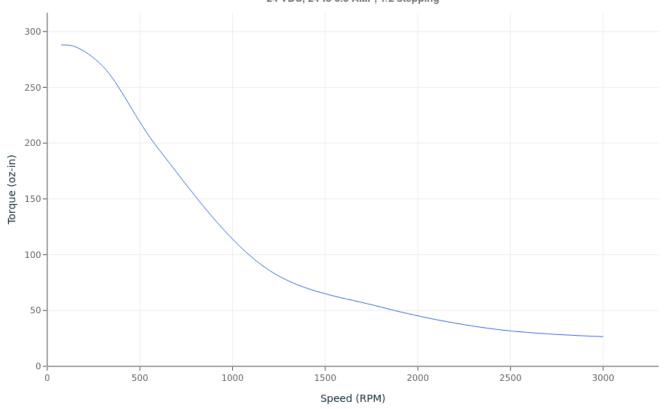
Base Motor Part Number	X5718-055-55
Step Angle	1.8°
Frame Size	2.220 in
NEMA Size	NEMA 23
Body Length	2.170 in
Current (AMP)	5.5 AMP
Holding Torque	311.55 oz-in
Resistance	0.28
Rotor Inertia	1.18 oz-in²
Number of leads	4
Connection	Bipolar
Weight	1.323 lbs

DIMENSIONS

Model	X5718-055-55
DIM. A (length) in	2.170 in

PERFORMANCE CURVE

X5718-055-55 24 VDC, 24 to 5.5 AMP, 1/2 stepping

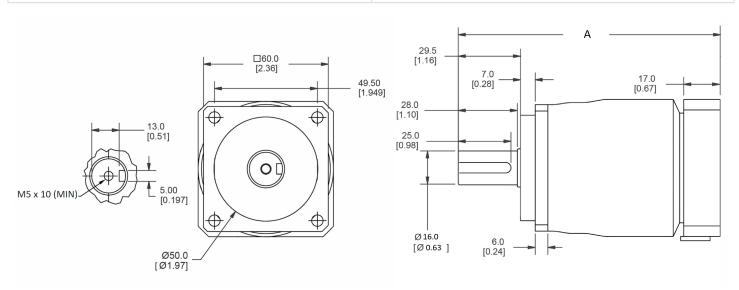


OPERATING SPECIFICATIONS

Radial Play	0.001 in @ 1 lbs
End Play	0.003 in @ 3 lbs
Shaft Run Out	0.002 TIR
Concentricity of Mounting Pilot to Shaft	0.003 TIR
Perpendicularity of Mounting Pilot to Face	0.003 TIR
Max Radial Load at Dimension "K" from mounting face	15 lbs
Dimension "K"	0.550 in
Max Axial Load	9 lbs
Maximum Case Temperature	176.00 °F maximum
Ambient Temperature	-4 °F to 122.00 °F
Storage Temperature	-4 °F to 212.00 °F
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

Stage	Dimension A
1	106mm (4.17in)
2	127.5mm (5.02in)



Stage		1		2	
Ratio		5	10	20	50
Nominal Output Torque	Nm	60	40	50	60
	Nm				

Emergency Stop Torque		3 times nominal output torque			
Nominal Input Speed	RPM	5000			
Max Input Speed	RPM	10000			
Max Radial Load	N	1377			
Max Axial Load	N	765			
Efficiency η	%	90		85	
Backlash	arcmin	<5		<7	
Protection Class		IP65			
Service Life	hr	20000			
Weight	kg	1.4		1.6	
Operating Temperature	°C	-20 to 90			
Lubrication		synthetic lubrica- tion oils			
Noise (n = 3000 rpm)	dB(A)	56	54	58	55
Mass Moment of Inertia	kg-cm²	0.13	0.13	0.03	0.03



FEATURES AND BENEFITS

The X5718 Series Motors are High Power Density motors ideal for applications that require higher speed and torque or increased efficiency.

Higher Dynamic Torque

Higher Dynamic Torque Higher power density means that X-Series can deliver more torque at your targeted speed than competitor's motor of the same size. This is thanks to our unique motor design which provides exceptional torque to size ratio. X-Series are ideal for applications requiring higher dynamic torque. **Higher Dynamic Torque Higher Speed**

Higher Speed

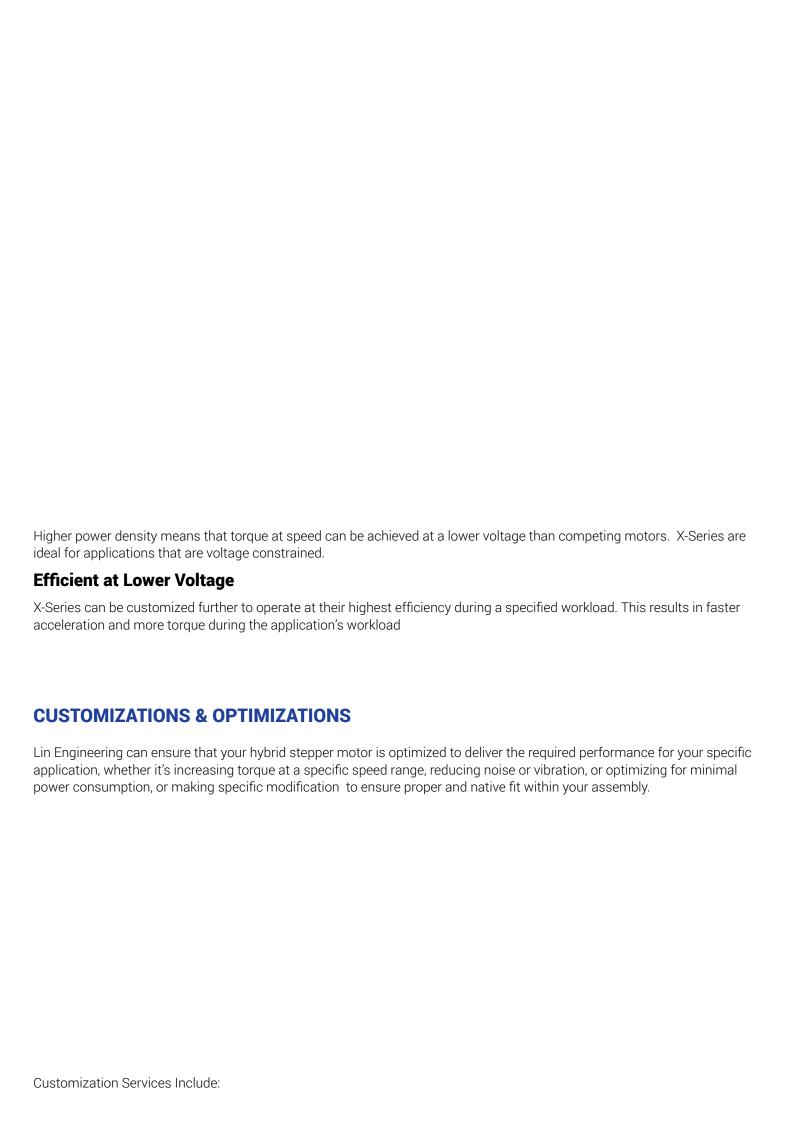
High power density means that X-Series can deliver higher speed at your target torque than a competitor's motor. Our unique motor design allows for greater efficiency, which extends the speed range of the motor at specified torque points while maintaining the same voltage as the competing motors. X-Series are ideal for applications that require moving load at higher speeds.

Higher Speed

Higher power density means that you can get more perfor	mance out of a smaller and lighter package. X-Series offer simil	ar
performance to larger frame size, or longer stack length mapplications.	rmance out of a smaller and lighter package. X-Series offer simil notors. This makes them ideal for space or weight constrained	ar
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Higher power density means that X-Series can operate more efficiently at your specified speed and	d targua raguirana anta Thia
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- 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.

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Motor Engineering and Manufacturing





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Small Batch to OEM Volume Production

