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TECHNOLOGY GROUP

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5704 Series

HYBRID STEPPER MOTOR

Features and Benefits:

- Extremely High Resolution
- High Torque and Inertia

Specifications:

- NEMA 23 (2.250 in) Frame Size
- 0.45° Step Angle
- 1.73 to 2.17 in Length
- 75.05 to 140.2 oz-in Holding Torque

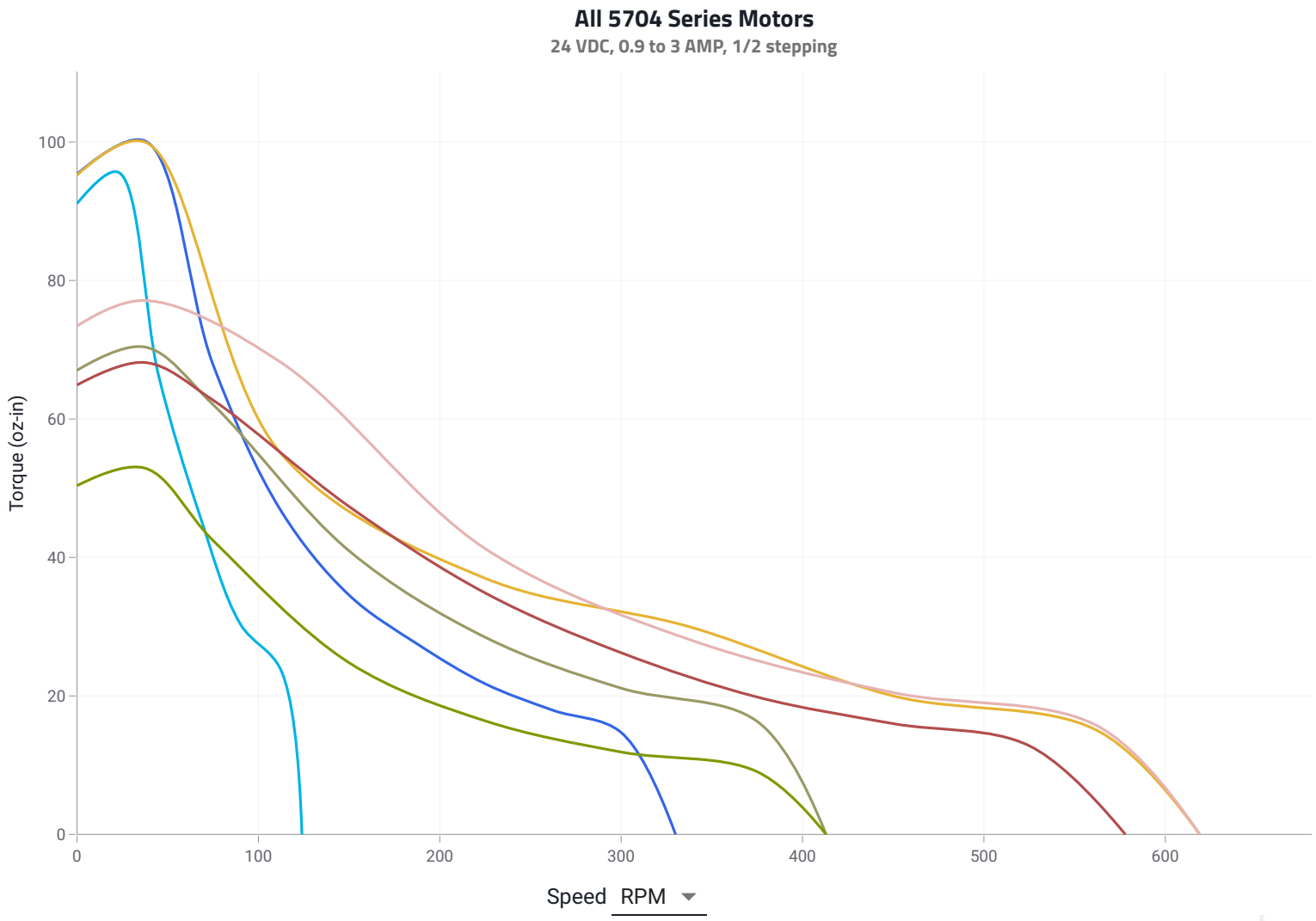
Find The Right Motor

Models

MODEL #	NEMA SIZE	FRAME SIZE	STEP ANGLE	CONNECTION TYPE	LENGTH, IN	CURRENT AMP	HOLDING TORQUE, OZ-IN	RESISTANCE	INERTIA, OZ-IN²	WEIGHT, LBS	# OF LEADS	AVAILABILITY
5704M-02	NEMA 23	2.250 in	0.45°	Bipolar	2.170 in	1.8 AMP	140.2 oz-in	3.1	2.1 oz-in²	1.501 lbs	4	Quote
5704M-03	NEMA 23	2.250 in	0.45°	Bipolar	2.170 in	3 AMP	140.2 oz-in	1.2	2.1 oz-in²	1.501 lbs	4	Quote
5704M-10	NEMA 23	2.250 in	0.45°	Bipolar	2.170 in	0.9 AMP	140.2 oz-in	11.7	2.1 oz-in²	1.501 lbs	4	Quote
5704X-01	NEMA 23	2.250 in	0.45°	Bipolar	1.730 in	1.5 AMP	75.05 oz-in	3	1 oz-in²	1.052 lbs	4	Quote
5704X-02	NEMA 23	2.250 in	0.45°	Bipolar	1.730 in	1.8 AMP	75.05 oz-in	2	1 oz-in²	1.052 lbs	4	Quote
5704X-10	NEMA 23	2.250 in	0.45°	Bipolar	1.730 in	0.9 AMP	75.05 oz-in	9.6	1 oz-in²	1.052 lbs	4	Quote
5704X-15	NEMA 23	2.250 in	0.45°	Bipolar	1.730 in	2.5 AMP	75.05 oz-in	1.3	1 oz-in²	1.052 lbs	4	Quote

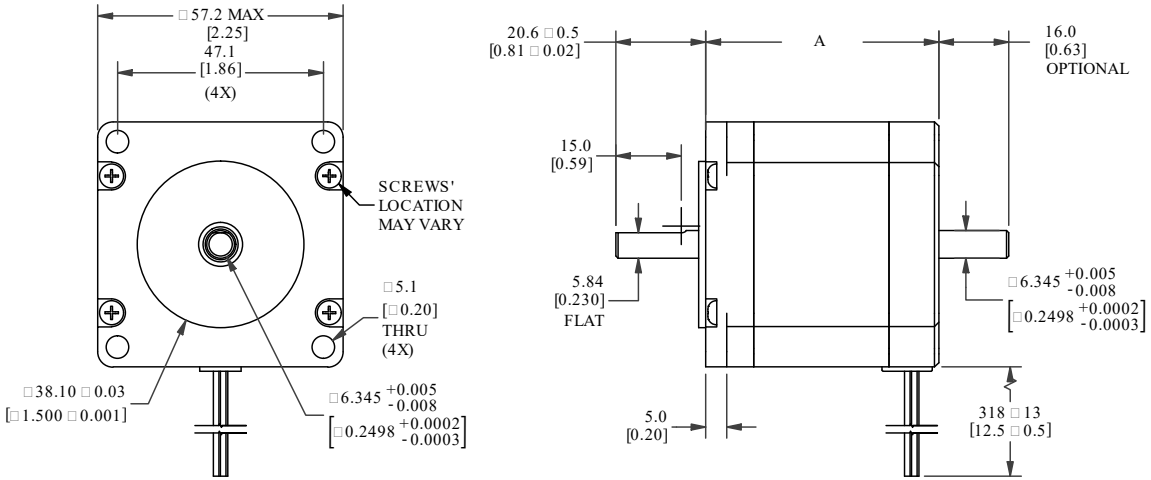
Torque Curves

- [x] 5704M-02
- [x] 5704M-03
- [x] 5704M-10
- [x] 5704X-01
- [x] 5704X-02
- [x] 5704X-10
- [x] 5704X-15



Dimensions

MODEL	DIM. A (LENGTH) IN
5704M-02	2.170 in
5704M-03	2.170 in
5704M-10	2.170 in
5704X-01	1.730 in
5704X-02	1.730 in
5704X-10	1.730 in
5704X-15	1.730 in



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	13 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

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Motor Numbering System (PDF)

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