

5023-124

NEMA 23 Step Motor



Product Features

- **Closeout sale in progress (single shaft version only)**
- **Limited quantity in stock**
- 2-phase hybrid step motor
- Standard NEMA 23 dimensions
- 1.8 degree step angle



Description

Product Description:

The 5023-124 stepper motor with single shaft (**see Note below**) is a two-phase hybrid step motor with a NEMA 23 frame size. The motor is no longer in production (and normally listed as archived on our website) but is being offered in a closeout sale to clear our inventory. Once the remaining inventory of this motor is depleted the motor will revert to being listed as archived on our website and will no longer be available for purchase. This makes the motor a good choice for one-time applications, research & development work, and hobbyist projects.

Note: Only the single-shaft version of this motor is available for purchase in the closeout sale. The double-shaft version, 5023-124D, is not available. All sales are final.




For long term projects, please consider the [HT23-601](#) as a replacement. To view all step motors go to the [browse stepper motors](#) page. For additional assistance selecting a step motor [contact us](#) or call 1-800-525-1609.

Specifications

Part Number:	5023-124
Frame Size:	NEMA 23
Motor Type:	Standard torque
Motor Length:	3.99 inches
Number of Lead Wires:	8
Lead Wire Configuration:	flying leads, no connector
Lead Wire/Cable Length:	18 inches inches
Lead Wire Gauge:	22 AWG
Unipolar Holding Torque:	160 oz-in
Bipolar Holding Torque:	226 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	1.75 A/phase
Bipolar Series Resistance:	3.26 Ohms/phase
Bipolar Series Inductance:	16.8 mH/phase
Bipolar Parallel Current:	3.49 A/phase
Bipolar Parallel Resistance:	0.815 Ohms/phase
Bipolar Parallel Inductance:	4.2 mH/phase
Unipolar Current:	2.47 A/phase
Unipolar Resistance:	1.63 Ohms/phase
Unipolar Inductance:	4.2 mH/phase
Rotor Inertia:	4.46E-03 oz-in-sec ²
Integral Gearhead:	No
Weight:	2.8 lbs
Storage Temperature:	-40 to 70 °C
Operating Temperature:	-20 to 50 °C
Insulation Class:	Class B (130 °C)
Motor Body Protection:	IP54

Maximum Radial Load:	15 lbs
Maximum Thrust Load:	25 lbs
Shaft Run Out:	0.001 inch T.I.R. max
Radial Play:	0.001 inch max w/ 1.0 lb load
End Play:	0.001 inch max w/ 9.0 lb load
Perpendicularity:	0.003 inches
Concentricity:	0.002 inches

Downloads

Family Datasheet:	 StepMotorWiring-8-lead-striped.pdf
Datasheet:	
2D Drawing:	 5023-124 revC.pdf
3D Drawing:	 2318102.igs

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