

4023-820

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 4023-820 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, 4023-820D, is not available. All sales are final.

Specifications

Part Number:	4023-820
Frame Size:	NEMA 23
Motor Type:	Standard torque
Motor Length:	1.98 inches
Number of Lead Wires:	6
Lead Wire Configuration:	flying leads, no connector
Lead Wire/Cable Length:	18 inches
Lead Wire Gauge:	22 AWG
Unipolar Holding Torque:	53.0 oz-in
Bipolar Holding Torque:	74.9 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	2.8 A/phase
Bipolar Series Resistance:	0.66 Ohms/phase
Bipolar Series Inductance:	1.4 mH/phase
Unipolar Current:	3.9 A/phase
Unipolar Resistance:	0.33 Ohms/phase
Unipolar Inductance:	0.35 mH/phase
Rotor Inertia:	1.56E-03 oz-in-sec ²
Integral Gearhead:	No
Weight:	1.3 lbs
Storage Temperature:	-40 to 70 °C
Operating Temperature:	-10 to 40 °C
Insulation Class:	Class B (130 °C)
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

End Play:	0.001 inch max w/ 9.0 lb load
Perpendicularity:	0.003 inches
Concentricity:	0.002 inches

Downloads

Family Datasheet:	 StepMotorWiring-6-lead.pdf
Datasheet:	
2D Drawing:	 4023-820_RevH.pdf  231851_RevE_MechanicalSpec.pdf
3D Drawing:	 231851.igs  HT23_51mm_w_ZAA_encoder.igs

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Applied Motion:](#)

[4023-820](#) [4023-820D](#)