

## 4023-819

NEMA 23 Step Motor



### ***Product Features***

- *2-phase hybrid step motor*
- *Standard NEMA 23 dimensions*



## Description

### **Product Description:**

The 4023-819 two-phase stepper motor is not available for new applications. Please consider the [HT23-593](#) 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

<b>Part Number:</b>	4023-819
<b>Frame Size:</b>	NEMA 23
<b>Motor Type:</b>	Standard torque
<b>Part Number w/Double Shaft:</b>	4023-819D
<b>Motor Length:</b>	1.98 inches
<b>Number of Lead Wires:</b>	6
<b>Lead Wire Configuration:</b>	flying leads, no connector
<b>Lead Wire/Cable Length:</b>	18 inches inches
<b>Lead Wire Gauge:</b>	22 AWG
<b>Unipolar Holding Torque:</b>	53.0 oz-in
<b>Bipolar Holding Torque:</b>	74.9 oz-in
<b>Step Angle:</b>	1.8 deg
<b>Bipolar Series Current:</b>	0.71 A/phase
<b>Bipolar Series Resistance:</b>	10.2 Ohms/phase
<b>Bipolar Series Inductance:</b>	32 mH/phase
<b>Unipolar Current:</b>	1.0 A/phase
<b>Unipolar Resistance:</b>	5.1 Ohms/phase
<b>Unipolar Inductance:</b>	8 mH/phase
<b>Rotor Inertia:</b>	1.56E-03 oz-in-sec <sup>2</sup>
<b>Integral Gearhead:</b>	No
<b>Weight:</b>	1.25 lbs
<b>Storage Temperature:</b>	-40 to 70 °C
<b>Operating Temperature:</b>	-10 to 40 °C
<b>Insulation Class:</b>	Class B (130 °C)
<b>Shaft Run Out:</b>	0.001 inch T.I.R. max
<b>Radial Play:</b>	0.0004 inch max w/ 1.0 lb load
<b>End Play:</b>	0.0004 inch max w/ 2.0 lb load
<b>Perpendicularity:</b>	0.002 inches



Perpendicularity: 0.003 inches

Concentricity: 0.002 inches

## Downloads

**Family Datasheet:**  [StepMotorWiring-6-lead.pdf](#)

**Datasheet:**

**2D Drawing:**  [4023-819 rev E.pdf](#)  
 [231851D\\_3D.pdf](#)

**3D Drawing:**  [4023-819.igs](#)

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