

NEMA 23 High Torque Step Motor



Product Features

- 2-phase hybrid step motor
- High torque design
- Standard NEMA 23 dimensions
- · Series or parallel wiring
- Optimized for microstepping



Description

Product Description:

The HT23-596 two-phase stepper motor is suitable for a wide range of motion control applications. Terminated with 8 motor leads, the motor can be connected in a few different ways, including bipolar series and bipolar parallel.

Specifications

| Part Number: | HT23-596 |
|---------------------------------|---------------------------------|
| Frame Size: | NEMA 23 |
| Motor Type: | High torque |
| Part Number w/Double Shaft: | HT23-596D |
| | |
| Part Number w/Encoder: | HT23-596D-ZAA |
| Motor Length: | 2.13 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: | 127 oz-in |
| Bipolar Holding Torque: | 177 oz-in |
| Step Angle: | 1.8 deg |
| Bipolar Series Current: | 0.71 A/phase |
| Bipolar Series Resistance: | 14.4 Ohms/phase |
| Bipolar Series Inductance: | 44.0 mH/phase |
| Bipolar Parallel Current: | 1.41 A/phase |
| Bipolar Parallel Resistance: | 3.6 Ohms/phase |
| Bipolar Parallel Inductance: | 11.0 mH/phase |
| Unipolar Current: | 1.00 A/phase |
| Unipolar Resistance: | 7.2 Ohms/phase |
| Unipolar Inductance: | 11.0 mH/phase |
| Rotor Inertia: | 3.68E-03 oz-in-sec ² |
| Integral Gearhead: | No |
| Weight: | 1.32 lbs |
| Storage Temperature: | -30 to 70 °C |

| Operating Temperature: | -20 to 50 °C |
|---------------------------|-------------------------------|
| Tomporataror | |
| Insulation Class: | Class B (130 ^o C) |
| Shaft Run Out: | 0.002 inch T.I.R. max |
| Radial Play: | 0.001 inch max w/ 1.1 lb load |
| End Play: | 0.003 inch max w/ 1.1 lb load |
| Perpendicularity: | 0.004 inches |
| Concentricity: | 0.002 inches |

Downloads

| Family Datasheet: | StepMotorWiring-8-lead-striped.pdf |
|-------------------|---|
| Datasheet: | http://s3.amazonaws.com/applied-motion-pdf/HT23-596.pdf |
| 2D Drawing: | HT23-596_RevD.pdf HT23-596D-ZAA_RevA.pdf |
| 3D Drawing: | 23HT54D.igs HT23_57mm_w_ZAA_encoder.igs |

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