

HT23-397

NEMA 23 High Torque Step Motor

1pc. - 61.00
50pc. - 61.00



Product Features

- **Close-out sale in progress**
- **Limited quantity in stock**
- *2-phase hybrid step motor*
- *High torque design*
- *Standard NEMA 23 dimensions*
- *Series or parallel wiring*



Description

Product Description:

The HT23-397 two-phase stepper motor is a high torque, hybrid step motor with a NEMA 23 frame size. The single and double-shaft versions of this motor are no longer in production (and normally listed as archived on our website) but are 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.

Terminated with 8 motor leads, this motor can be connected in a few different ways including bipolar series and bipolar parallel.

Note: This motor is not recommended for new applications. Please use the [HT23-597](#) instead.

Specifications

Part Number:	HT23-397
Frame Size:	NEMA 23
Motor Type:	High torque
Part Number w/Double Shaft:	HT23-397D
Motor Length:	2.13 inches
Number of Lead Wires:	8
Lead Wire Configuration:	flying leads, no connector
Lead Wire/Cable Length:	18 inches
Lead Wire Gauge:	22 AWG
Unipolar Holding Torque:	125 oz-in
Bipolar Holding Torque:	177 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	1.41 A/phase
Bipolar Series Resistance:	3.6 Ohms/phase
Bipolar Series Inductance:	10 mH/phase
Bipolar Parallel Current:	2.83 A/phase
Bipolar Parallel Resistance:	0.9 Ohms/phase
Bipolar Parallel Inductance:	2.5 mH/phase
Unipolar Current:	2 A/phase
Unipolar Resistance:	1.8 Ohms/phase
Unipolar Inductance:	2.5 mH/phase
Rotor Inertia:	4.25E-03 oz-in-sec ²
Integral Gearhead:	No
Weight:	1.5 lbs
Storage Temperature:	-40 to 70 °C
Operating Temperature:	-20 to 50 °C

Insulation Class:	Class B (130 °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/ 2.2 lb load
Perpendicularity:	0.003 inches
Concentricity:	0.003 inches

Downloads

Family Datasheet:	 StepMotorWiring-8-lead-striped.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/HT23-397.pdf
2D Drawing:	 HT23-397_RevE.pdf  HT23-397D-ZAA_RevA.pdf
3D Drawing:	 23HT54D.igs  HT23_57mm_w_ZAA_encoder.igs

Pricing

	HT23-397 Part No. w/ Single Shaft	HT23-397D Part No. w/ Double Shaft
1pc.	\$61.00	\$61.00
25pc.		
50pc.		
100pc.	Request a Quote for 100+ piece pricing.	