

## HT23-398

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 HT23-398 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 [HT23-598](#) instead.

## Specifications

<b>Part Number:</b>	HT23-398
<b>Frame Size:</b>	NEMA 23
<b>Motor Type:</b>	High torque
<b>Part Number w/Double Shaft:</b>	HT23-398D
<b>Motor Length:</b>	2.13 inches
<b>Number of Lead Wires:</b>	8
<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>	125 oz-in
<b>Bipolar Holding Torque:</b>	177 oz-in
<b>Step Angle:</b>	1.8 deg
<b>Bipolar Series Current:</b>	2.12 A/phase
<b>Bipolar Series Resistance:</b>	1.5 Ohms/phase
<b>Bipolar Series Inductance:</b>	4.8 mH/phase
<b>Bipolar Parallel Current:</b>	4.24 A/phase
<b>Bipolar Parallel Resistance:</b>	0.37 Ohms/phase
<b>Bipolar Parallel Inductance:</b>	1.2 mH/phase
<b>Unipolar Current:</b>	3.00 A/phase
<b>Unipolar Resistance:</b>	0.75 Ohms/phase
<b>Unipolar Inductance:</b>	1.2 mH/phase
<b>Rotor Inertia:</b>	4.25E-03 oz-in-sec <sup>2</sup>
<b>Integral Gearhead:</b>	No
<b>Weight:</b>	1.5 lbs
<b>Storage Temperature:</b>	-40 to 70 °C
<b>Operating Temperature:</b>	-20 to 50 °C

<b>Insulation Class:</b>	Class B (130 °C)
<b>Shaft Run Out:</b>	0.002 inch T.I.R. max
<b>Radial Play:</b>	0.001 inch max w/ 1.1 lb load
<b>End Play:</b>	0.003 inch max w/ 2.2 lb load
<b>Perpendicularity:</b>	0.003 inches
<b>Concentricity:</b>	0.003 inches

## Downloads

<b>Family Datasheet:</b>	 <a href="#">StepMotorWiring-8-lead-striped.pdf</a>
<b>Datasheet:</b>	<a href="http://s3.amazonaws.com/applied-motion-pdf/HT23-398.pdf">http://s3.amazonaws.com/applied-motion-pdf/HT23-398.pdf</a>
<b>2D Drawing:</b>	 <a href="#">HT23-398_RevE.pdf</a>  <a href="#">HT23-398D-ZAA_RevA.pdf</a>
<b>3D Drawing:</b>	 <a href="#">23HT54D.igs</a>  <a href="#">HT23_57mm_w_ZAA_encoder.igs</a>
<b>Speed-Torque Curves:</b>	 <a href="#">ST_speed-torque.pdf</a>

## Pricing

	<b>HT23-398</b> Part No. w/ Single Shaft	<b>HT23-398D</b> Part No. w/ Double Shaft
<b>1pc.</b>	\$61.00	\$61.00
<b>25pc.</b>		
<b>50pc.</b>		
<b>100pc.</b>	<a href="#">Request a Quote</a> for 100+ piece pricing.	