

HT23-394

NEMA 23 High Torque Step Motor



Product Features

- *2-phase hybrid step motor*
- *High torque design*
- *Standard NEMA 23 dimensions*
- *Series or parallel wiring*



Description

Product Description:

The HT23-394 stepper motor is no longer available. The recommended replacement motor is the [HT23-594](#).

The HT23-394 stepper motor is a two-phase hybrid step motor with a NEMA 23 frame size. It is terminated with 8 motor leads, meaning it can be connected in a few different ways including bipolar series and bipolar parallel.

Specifications

Part Number:	HT23-394
Frame Size:	NEMA 23
Motor Type:	High torque
Part Number w/Double Shaft:	HT23-394D
Part Number w/Encoder:	HT23-394D-ZAA
Motor Length:	1.61 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:	54.2 oz-in
Bipolar Holding Torque:	76.7 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	1.41 A/phase
Bipolar Series Resistance:	2.8 Ohms/phase
Bipolar Series Inductance:	5.6 mH/phase
Bipolar Parallel Current:	2.83 A/phase
Bipolar Parallel Resistance:	0.7 Ohms/phase
Bipolar Parallel Inductance:	1.4 mH/phase
Unipolar Current:	2 A/phase
Unipolar Resistance:	1.4 Ohms/phase
Unipolar Inductance:	1.4 mH/phase
Rotor Inertia:	1.70E-03 oz-in-sec ²
Integral Gearhead:	No
Weight:	1.0 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/ 0.1 lb load
End Play:	0.003 inch max w/ 2.2 lb load
Perpendicularity:	0.003 inches
Concentricity:	0.003 inches

Downloads

Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/HT23-394.pdf
2D Drawing:	 HT23-394_RevE.pdf  HT23-394D-ZAA_RevA.pdf
3D Drawing:	 23HT39D.igs  HT23_39mm_w_ZAA_encoder.igs
Speed-Torque Curves:	 ST_speed-torque.pdf

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Stepper Motors](#) category:

Click to view products by [Applied Motion](#) manufacturer:

Other Similar products are found below :

[HT17-275](#) [5014-020](#) [HT17-271D](#) [82924041](#) [82924036](#) [82914016](#) [80910502](#) [80910501](#) [80910003](#) [HT23-598](#) [HT08-221](#) [902-0135-000](#)
[MS11HS3P4067-09RL](#) [MS17HD6P4200-24RL](#) [MS11HS5P4150-13RL](#) [MS08HY1P4050-09RL](#) [MS08HY3P4050-02RL](#) [ML24HCAL3550-01RL](#) [MS17HD6P4100-16RL](#) [ML23HS8P4220-16RL](#) [MS17HD2P4200-20RL](#) [ML23HSAL4500-E](#) [MS14HS5P4100-03RL](#) [MS17HD2P4100-27RL](#) [MS14HS1P4100-09RL](#) [MS11HS1P4100-25RL](#) [ML23HSAP4300-18RL](#) [ML23HS4P4100-02RL](#) [PL23HS8L4550-05RL](#)
[PL23HSAL4500-05RL](#) [MS17HD4P4150-22RL](#) [PM42S-048-HHC8](#) [PM20L-020-HHC3](#) [PM42L-048-HHC9](#) [HT34-504](#) [82910003](#) [103H8223-6340](#) [103H7126-0740](#) [103H7126-5840](#) [103H7822-5740](#) [SY20STH30-0604A](#) [STEPPER MOTOR: UNIPOLAR/BIPOLAR 57Å—56MM](#)
[ROB-10551](#) [STEPPER MOTOR: UNIPOLAR/BIPOLAR 57Å—76MM](#) [103H7123-5740](#) [ROB-13656](#) [902-0097-000](#) [902-0119-000](#) [ROB-10848](#) [ROB-10846](#)