

HT23-597

NEMA 23 High Torque Step Motor

1pc. - 63.00
50pc. - 47.25



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 HT23-597 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:	HT23-597
Frame Size:	NEMA 23
Motor Type:	High torque
Part Number w/Double Shaft:	HT23-597D
Part Number w/Encoder:	HT23-597D-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:	1.41 A/phase
Bipolar Series Resistance:	3.6 Ohms/phase
Bipolar Series Inductance:	10.8 mH/phase
Bipolar Parallel Current:	2.83 A/phase
Bipolar Parallel Resistance:	0.9 Ohms/phase
Bipolar Parallel Inductance:	2.7 mH/phase
Unipolar Current:	2.00 A/phase
Unipolar Resistance:	1.8 Ohms/phase
Unipolar Inductance:	2.7 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
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/ 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/HT23-597.pdf
2D Drawing:	 HT23-597_RevC.pdf  HT23-597D-ZAA_RevA.pdf
3D Drawing:	 23HT54D.igs  HT23_57mm_w_ZAA_encoder.igs

Pricing

	HT23-597 Part No. w/ Single Shaft	HT23-597D Part No. w/ Double Shaft	HT23-597D-ZAA Part No. w/ Encoder
1pc.	\$63.00	\$63.00	\$189.00
25pc.	\$54.18	\$54.18	\$180.18
50pc.	\$47.25	\$47.25	\$173.25
100pc.	Request a Quote for 100+ piece pricing.		