Applied Motion Products, Inc.
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Product Datasheet

www.Applied-Motion.com

HT23-596

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*

RoHS

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
Insulation Class:	Class B (130 ºC)
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_RevC.pdf HT23-596D-ZAA_RevA.pdf
3D Drawing:	23HT54D.igs HT23_57mm_w_ZAA_encoder.igs

Pricing

	HT23-596 Part No. w/ Single Shaft	**HT23-596D** Part No. w/ Double Shaft	**HT23-596D-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.		