Applied Motion Products, Inc.
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Product Datasheet

www.Applied-Motion.com

HT23-549

NEMA 23 High Torque Step Motor

1pc. - 106.00
50pc. - 79.50



Product Features

- *2-phase hybrid step motor*
- *High torque design*
- *Standard NEMA 23 dimensions*
- *Optimized for high bus voltage*

RoHS

Description

Product Description:

The HT23-549 two-phase stepper motor is designed for use with the STAC6 series of stepper drives (120 VAC input versions only) and is suitable for a wide range of motion control applications. The motor comes with an integral 10 ft shielded cable and a preassembled drive connector for easy connection to a STAC6 drive.

When not used with STAC6 drives, the preassembled drive connector can be removed to reveal 8 motor leads plus 1 ground lead. The 8 motor leads can be connected in one of three ways to the step motor drive of your choice: bipolar series (required for STAC6 drives), bipolar parallel, or unipolar.

Note: The HT23-549 step motor has been superseded by the HT23-553 step motor for use in all new applications with STAC6 stepper drives.

Specifications

Part Number:	HT23-549
Frame Size:	NEMA 23
Motor Type:	High torque
Part Number w/Double Shaft:	HT23-549D
Part Number w/Encoder:	HT23-549D-ZAA
Motor Length:	2.17 inches
Number of Lead Wires:	8
Lead Wire Configuration:	shielded cable w/ connector
Lead Wire/Cable Length:	10 feet inches
Lead Wire Gauge:	24 AWG
Unipolar Holding Torque:	118 oz-in
Bipolar Holding Torque:	167 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	1.41 A/phase
Bipolar Series Resistance:	3.6 Ohms/phase
Bipolar Series Inductance:	12.8 mH/phase
Bipolar Parallel Current:	2.83 A/phase
Bipolar Parallel Resistance:	0.9 Ohms/phase
Bipolar Parallel Inductance:	3.2 mH/phase
Unipolar Current:	2.00 A/phase
Unipolar Resistance:	1.8 Ohms/phase
Unipolar Inductance:	3.2 mH/phase
Rotor Inertia:	3.96E-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 ºC)
Shaft Run Out:	0.002 inch T.I.R. max
Radial Play:	0.001 inch max w/ 1.0 lb load
End Play:	0.003 inch max w/ 1.0 lb load
Perpendicularity:	0.004 inches
Concentricity:	0.003 inches

Downloads

Family Datasheet:	StepMotorWiring-8-lead-cabled-solid.pdf
Datasheet:	http://s3.amazonaws.com/applied-motion-pdf/HT23-549.pdf
2D Drawing:	HT23-549_revG.pdf HT23-549D-ZAA_RevA.pdf
3D Drawing:	23HT54D.igs HT23_57mm_w_ZAA_encoder.igs
Speed-Torque Curves:	STAC6_speed-torque.pdf

Pricing

	HT23-549 Part No. w/ Single Shaft	**HT23-549D** Part No. w/ Double Shaft	**HT23-549D-ZAA** Part No. w/ Encoder
1pc.	$106.00	$106.00	$232.00
25pc.	$91.16	$91.16	$199.52
50pc.	$79.50	$79.50	$174.00
100pc.	Request a Quote for 100+ piece pricing.		