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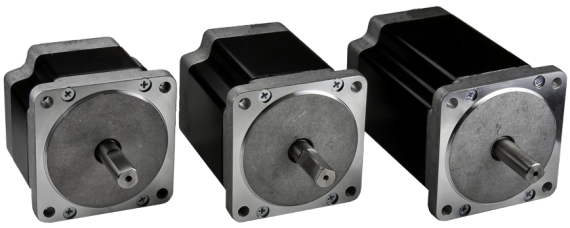
Applied Motion Products

Product Datasheet

HT34-506

NEMA 34 High Torque Step Motor



Product **Features**

- *2-phase hybrid step motor*
- *High torque design*
- *Standard NEMA 34 dimensions*
- *Series or parallel wiring*

RoHS

Description

The HT34-506 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.

- HT34-506 is a replacement for HT34-478.

Specifications

Part Number	HT34-506
Frame Size	NEMA 34
Motor Type	High torque
Part Number w/Double Shaft	NA
Part Number w/Encoder	HT34-506D-YAA
Motor Length	4.94 inches
Number of Lead Wires	8
Lead Wire Configuration	flying leads, no connector
Lead Wire/Cable Length	12 inches
Lead Wire Gauge	22 AWG
Unipolar Holding Torque	906 oz-in
Bipolar Holding Torque	1260 oz-in
Step Angle	1.8 deg
Bipolar Series Current	2.80 A/phase

Bipolar Series Resistance	1.94 Ohms/phase
Bipolar Series Inductance	21.6 mH/phase
Bipolar Parallel Current	5.60 A/phase
Bipolar Parallel Resistance	0.48 Ohms/phase
Bipolar Parallel Inductance	5.4 mH/phase
Unipolar Current	4.00 A/phase
Unipolar Resistance	0.97 Ohms/phase
Unipolar Inductance	5.4 mH/phase
Rotor Inertia	3.89E-02 oz-in-sec^2
Integral Gearhead	No
Weight	8.4 lbs
Storage Temperature	-30 to 70 °C
Operating Temperature	-20 to 50 °C
Insulation Class	Class B (130 ºC)
Maximum Radial Load	28 lbs
Maximum Thrust Load	6.3 lbs
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

Datasheet	StepMotorWiring-8-lead-striped.pdf
2D Drawing	HT34-506_RevB.pdf
3D Drawing	34HT126D.igs
Speed-Torque Curves	STR_speed-torque.pdf
Agency Approvals	There are no related agency approval documents at this time.
Application Notes	There are currently no Application Notes available for this product.