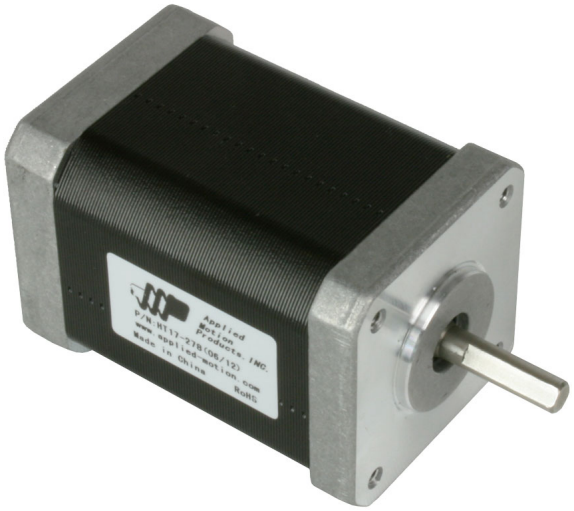
Applied Motion Products

Product Datasheet

HT17-278

NEMA 17 High Torque Step Motor



Product Features

- *2-phase hybrid step motor*
- *High torque design*
- *Standard NEMA 17 dimensions*
- *Series or parallel wiring*

RoHS

Description

The HT17-278 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	HT17-278
Frame Size	NEMA 17
Motor Type	High torque
Part Number w/Double Shaft	NA
Part Number w/Encoder	HT17-278D-WAA
Motor Length	2.47 inches
Number of Lead Wires	8
Lead Wire Configuration	flying leads, no connector
Lead Wire/Cable Length	12 inches
Lead Wire Gauge	26 AWG
Unipolar Holding Torque	79 oz-in
Bipolar Holding Torque	113 oz-in

Step Angle	1.8 deg
Bipolar Series Current	1.0 A/phase
Bipolar Series Resistance	6.4 Ohms/phase
Bipolar Series Inductance	12 mH/phase
Bipolar Parallel Current	2.0 A/phase
Bipolar Parallel Resistance	1.6 Ohms/phase
Bipolar Parallel Inductance	3.0 mH/phase
Unipolar Current	1.4 A/phase
Unipolar Resistance	3.2 Ohms/phase
Unipolar Inductance	3.0 mH/phase
Rotor Inertia	1.74E-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)
Maximum Radial Load	4.7 lbs
Maximum Thrust Load	2.25 lbs
Shaft Run Out	0.0012 inch T.I.R. max
Radial Play	0.0008 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	HT17-278_RevB.pdf
3D Drawing	HT17-278.igs HT17-278D.igs
Speed-Torque Curves	StepMtrAppData_HT17-278_RevB.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.