

HT34-687

NEMA 34 High Torque Step Motor



Product Features

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

Description

Product Description:

The HT34-687 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.

Please note that a VL series gearhead purchased for this motor will require a special mounting adaptor and 2 weeks lead time. Please contact customer service for the price of this adaptor.

UL Recognized

The single and double shaft versions of this motor are UL Recognized in the US and Canada, file no. E472271. The encoder and encoder cover are not included in the listing.

Specifications

Part Number:	HT34-687
Frame Size:	NEMA 34
Motor Type:	High torque
Part Number w/Double Shaft:	HT34-687D
Part Number w/Encoder:	HT34-687D-YAA
Motor Length:	6.14 inches
Number of Lead Wires:	8
Lead Wire Configuration:	flying leads, no connector
Lead Wire/Cable Length:	18 inches inches
Lead Wire Gauge:	20 AWG
Unipolar Holding Torque:	1302 oz-in
Bipolar Holding Torque:	1699 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	4.5 A/phase
Bipolar Series Resistance:	1.1 Ohms/phase
Bipolar Series Inductance:	12 mH/phase
Bipolar Parallel Current:	8.9 A/phase
Bipolar Parallel Resistance:	0.26 Ohms/phase
Bipolar Parallel Inductance:	3 mH/phase
Unipolar Current:	6.30 A/phase
Unipolar Resistance:	0.55 Ohms/phase
Unipolar Inductance:	3 mH/phase
Rotor Inertia:	6.23E-02 oz-in-sec ²
Integral Gearhead:	No
Weight:	11.46 lbs
Storage Temperature:	-30 to 70 °C

Operating Temperature:	-20 to 50 °C
Insulation Class:	Class B (130 °C)
Maximum Radial Load:	50 lbs
Maximum Thrust Load:	35 (2.2 w/ encoder) 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/ 2.2 lb load

Downloads

Datasheet:	 StepMotorWiring-8-lead-striped-ground.pdf
Product PDF - S3 Link:	http://s3.amazonaws.com/applied-motion-pdf/HT34-687.pdf
2D Drawing:	 HT34-687_RevD.pdf  HT34-687D-YAA_RevA.pdf  HT34-687D-YAC_RevA.pdf
3D Drawing:	 HT34-687_STEP_7717.zip  HT34-687D_STEP_7717.zip  HT34-687D-YAA_STEP_7717.zip  HT34-687D-YAC_STEP_7717.zip
Speed-Torque Curves:	 HT34-687_ST10.pdf  HT34-687_STR8.pdf