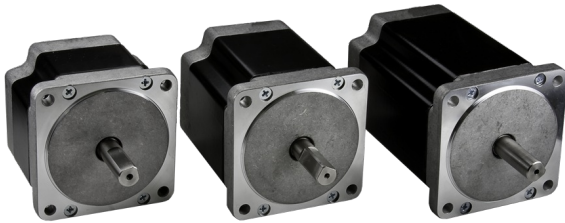


HT34-505

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

The HT34-505 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.





- HT34-505 is a replacement for [HT34-476](#).

Specifications

Part Number	HT34-505
Frame Size	NEMA 34
Motor Type	High torque
Part Number w/Double Shaft	NA
Part Number w/Encoder	HT34-505D-YAA
Motor Length	3.78 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	609 oz-in
Bipolar Holding Torque	850 oz-in
Step Angle	1.8 deg
Bipolar Series Current	3.18 A/phase

Bipolar Series Resistance	1.32 Ohms/phase
Bipolar Series Inductance	10.8 mH/phase
Bipolar Parallel Current	6.30 A/phase
Bipolar Parallel Resistance	0.33 Ohms/phase
Bipolar Parallel Inductance	2.7 mH/phase
Unipolar Current	4.50 A/phase
Unipolar Resistance	0.66 Ohms/phase
Unipolar Inductance	2.7 mH/phase
Rotor Inertia	2.62E-02 oz-in-sec ²
Integral Gearhead	No
Weight	5.9 lbs
Storage Temperature	-30 to 70 °C
Operating Temperature	-20 to 50 °C
Insulation Class	Class B (130 °C)
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	 HT34-505_RevB.pdf
3D Drawing	 34HT96D.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.