

## HT11-013

NEMA 11 High Torque Step Motor



### Product Features

- 2-phase Hybrid Step Motor
- High Torque Design
- Standard NEMA 11 Dimensions

### Description






The HT11-013 two-phase stepper motor is suitable for a wide range of motion control applications.

### Specifications

|                                   |                            |
|-----------------------------------|----------------------------|
| <b>Part Number</b>                | HT11-013                   |
| <b>Frame Size</b>                 | NEMA 11                    |
| <b>Motor Type</b>                 | High torque                |
| <b>Part Number w/Double Shaft</b> | NA                         |
| <b>Part Number w/Encoder</b>      | NA                         |
| <b>Motor Length</b>               | 1.87 inches                |
| <b>Number of Lead Wires</b>       | 4                          |
| <b>Lead Wire Configuration</b>    | flying leads, no connector |
| <b>Lead Wire/Cable Length</b>     | 7.9 inches                 |
| <b>Lead Wire Gauge</b>            | 26 AWG                     |
| <b>Unipolar Holding Torque</b>    | NA                         |
| <b>Bipolar Holding Torque</b>     | 15.3 oz-in                 |
| <b>Step Angle</b>                 | 1.8 deg                    |
| <b>Bipolar Series Current</b>     | NA                         |
| <b>Bipolar Series Resistance</b>  | NA                         |
| <b>Bipolar Series Inductance</b>  | NA                         |

|                                    |                                 |
|------------------------------------|---------------------------------|
| <b>Bipolar Parallel Current</b>    | 1.0 A/phase                     |
| <b>Bipolar Parallel Resistance</b> | 2.0 Ohms/phase                  |
| <b>Bipolar Parallel Inductance</b> | 2.6 mH/phase                    |
| <b>Unipolar Current</b>            | NA                              |
| <b>Unipolar Resistance</b>         | NA                              |
| <b>Unipolar Inductance</b>         | NA                              |
| <b>Rotor Inertia</b>               | 2.55E-04 oz-in-sec <sup>2</sup> |
| <b>Integral Gearhead</b>           | No                              |
| <b>Weight</b>                      | NA                              |
| <b>Storage Temperature</b>         | -40 to 70 °C                    |
| <b>Operating Temperature</b>       | -20 to 40 °C                    |
| <b>Insulation Class</b>            | Class B (130 °C)                |
| <b>Maximum Radial Load</b>         | NA                              |
| <b>Maximum Thrust Load</b>         | NA                              |
| <b>Shaft Run Out</b>               | 0.001 inch T.I.R. max           |
| <b>Radial Play</b>                 | 0.001 inch max w/ 1.1 lb load   |
| <b>End Play</b>                    | 0.003 inch max w/ 2.2 lb load   |
| <b>Perpendicularity</b>            | 0.002 inches                    |
| <b>Concentricity</b>               | 0.002 inches                    |

## Downloads

|                            |  |
|----------------------------|--|
| <b>Datasheet</b>           |  <a href="#">StepMotorWiring-4-lead.pdf</a>   |
| <b>2D Drawing</b>          |  <a href="#">HT11-013 rev F.pdf</a>   |
| <b>3D Drawing</b>          |  <a href="#">11HT013D.igs</a>   |
| <b>Speed-Torque Curves</b> |  <a href="#">ST_speed-torque.pdf</a><br> <a href="#">STR2_speed-torque.pdf</a> |
| <b>Agency Approvals</b>    | There are no related agency approval documents at this time.   |
| <b>Application Notes</b>   | There are currently no Application Notes available for this product.   |