

HT17-068

NEMA 17 High Torque Step Motor



Product Features

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

Description

Product Description:







The HT17-068 two-phase stepper motor is not available for new applications. See part number [HT17-268](#) for a replacement.

Specifications

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| Part Number: | HT17-068 |
| Frame Size: | NEMA 17 |
| Motor Type: | High torque |
| Part Number w/Double Shaft: | HT17-068D |
| Part Number w/Encoder: | HT17-068D-WAA |
| Motor Length: | 1.30 inches |
| Number of Lead Wires: | 8 |
| Lead Wire Configuration: | flying leads, no connector |
| Lead Wire/Cable Length: | 12 inches inches |
| Lead Wire Gauge: | 26 AWG |
| Unipolar Holding Torque: | 22.2 oz-in |
| Bipolar Holding Torque: | 31.4 oz-in |
| Step Angle: | 1.8 deg |
| Bipolar Series Current: | 0.67 A/phase |
| Bipolar Series Resistance: | 8.4 Ohms/phase |
| Bipolar Series Inductance: | 11.2 mH/phase |
| Bipolar Parallel Current: | 1.34 A/phase |
| Bipolar Parallel Resistance: | 2.1 Ohms/phase |
| Bipolar Parallel Inductance: | 2.8 mH/phase |
| Unipolar Current: | 1.10 A/phase |
| Unipolar Resistance: | 4.2 Ohms/phase |
| Unipolar Inductance: | 2.8 mH/phase |
| Rotor Inertia: | 4.96E-04 oz-in-sec ² |
| Integral Gearhead: | No |
| Weight: | 0.44 lbs |

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| Storage Temperature: | -40 to 70 °C |
| Operating Temperature: | -20 to 50 °C |
| Insulation Class: | Class B (130 °C) |
| Shaft Run Out: | 0.001 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 |
| Perpendicularity: | 0.003 inches |
| Concentricity: | 0.002 inches |

Downloads

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|-------------------------------|---|
| Datasheet: |  StepMotorWiring-8-lead-striped.pdf |
| Product PDF - S3 Link: | http://s3.amazonaws.com/applied-motion-pdf/HT17-068.pdf |
| 2D Drawing: |  HT17-068_RevJ.pdf  HT17-068P rev E.pdf |
| 3D Drawing: |  17HT33D.igs  HT17_34mm_wWAA_encoder.igs |
| Speed-Torque Curves: |  ST_speed-torque.pdf |