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Product Datasheet

www.Applied-Motion.com

HT17-071

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 HT17-071 two-phase stepper motor is not available for new applications. See part number HT17-271 for a replacement.

Specifications

Part Number:	HT17-071
Frame Size:	NEMA 17
Motor Type:	High torque
Part Number w/Double Shaft:	HT17-071D
Part Number w/Encoder:	HT17-071D-WAA
Motor Length:	1.54 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:	33.3 oz-in
Bipolar Holding Torque:	47.1 oz-in
Step Angle:	1.8 deg
Bipolar Series Current:	0.85 A/phase
Bipolar Series Resistance:	6.6 Ohms/phase
Bipolar Series Inductance:	14.4 mH/phase
Bipolar Parallel Current:	1.70 A/phase
Bipolar Parallel Resistance:	1.7 Ohms/phase
Bipolar Parallel Inductance:	3.6 mH/phase
Unipolar Current:	1.20 A/phase
Unipolar Resistance:	3.3 Ohms/phase
Unipolar Inductance:	3.6 mH/phase
Rotor Inertia:	7.65E-04 oz-in-sec^2
Integral Gearhead:	No
Weight:	0.57 lbs

Storage Temperature:	-40 to 70 °C
Operating Temperature:	-10 to 40 °C
Insulation Class:	Class B (130 ºC)
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

Datasheet:	StepMotorWiring-8-lead-striped.pdf
Product PDF - S3 Link:	http://s3.amazonaws.com/applied-motion-pdf/HT17-071.pdf
2D Drawing:	HT17-071_RevK.pdf HT17-071P_RevD.pdf
3D Drawing:	17HT39D.igs HT17_39mm_wWAA_encoder.igs
Speed-Torque Curves:	ST_speed-torque.pdf