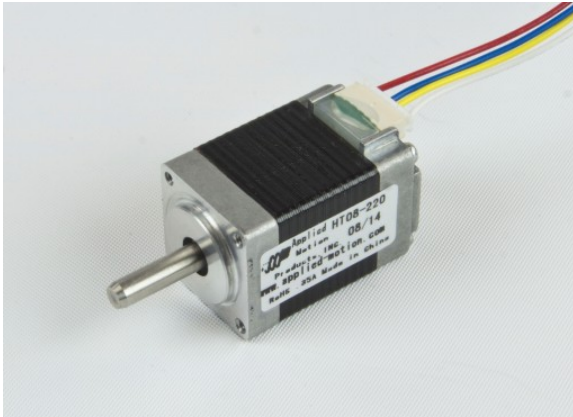


HT08-220

NEMA 8 High Torque Step Motor



Product Features

- 2-phase hybrid step motor
- High torque design
- Standard NEMA 8 dimensions



Description






Product Description:

The HT08-220 two-phase stepper motor is suitable for a wide range of motion control applications. Wire lead tail included for the 6-pin connector on the motor.

Specifications

Part Number:	HT08-220
Frame Size:	NEMA 8
Motor Type:	High torque
Part Number w/Double Shaft:	HT08-220D
Motor Length:	1.24 inches
Number of Lead Wires:	4
Lead Wire Configuration:	flying leads, no connector
Lead Wire/Cable Length:	18 inches inches
Lead Wire Gauge:	26 AWG
Bipolar Holding Torque:	2.12 oz-in
Step Angle:	1.8 deg
Bipolar Parallel Current:	0.35 A/phase
Bipolar Parallel Resistance:	11.5 Ohms/phase
Bipolar Parallel Inductance:	3.4 mH/phase
Rotor Inertia:	2.83E-05 oz-in-sec ²
Integral Gearhead:	No
Weight:	0.11 lbs
Storage Temperature:	-30 to 70 °C
Operating Temperature:	-20 to 50 °C
Insulation Class:	Class B (130 °C)
Maximum Radial Load:	1.80 lbs
Maximum Thrust Load:	0.67 lbs
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/ 1.1 lb load
Perpendicularity:	0.004 inches
Concentricity:	0.003 inches

Downloads

Datasheet:	 StepMotorWiring-4-lead.pdf  Stepper Motor Life data-110817.pdf
Product PDF - S3 Link:	http://s3.amazonaws.com/applied-motion-pdf/HT08-220.pdf
2D Drawing:	 HT08-220_RevC.pdf
3D Drawing:	 HT08-220_C.igs  HT08-220D_C.igs

Products in the Series *Small Step Motors*

Part Number	Frame Size	Length	Holding Torque	Series Current	Parallel Current	Rotor Inertia
5014-020	NEMA 14	1.02	7.93	NA	0.35	2.83E-04
5014-042	NEMA 14	1.57	25.53	NA	1.0	2.8E-04
HT08-220	NEMA 8	1.24	2.12	NA	0.35	2.83E-05
HT08-221	NEMA 8	1.85	4.53	NA	0.35	5.95E-05
HT11-020	NEMA 11	1.22	7.08	NA	1.0	1.27E-04
HT11-021	NEMA 11	2.05	14.16	NA	1.0	2.55E-04

Products in the Series *CORE Step Motors*

Part Number	Frame Size	Length	Holding Torque	Series Current	Parallel Current	Rotor Inertia
HT08-220	NEMA 8	1.24	2.12	NA	0.35	2.83E-05
HT08-221	NEMA 8	1.85	4.53	NA	0.35	5.95E-05
HT11-020	NEMA 11	1.22	7.08	NA	1.0	1.27E-04
HT11-021	NEMA 11	2.05	14.16	NA	1.0	2.55E-04
HT17-268	NEMA 17	1.31	31.2	0.67	1.34	5.38E-04
HT17-271	NEMA 17	1.57	52.4	0.85	1.70	8.07E-04
HT17-275	NEMA 17	1.90	77.9	0.85	1.70	1.16E-03
HT17-278	NEMA 17	2.47	113	1.0	2.0	1.74E-03
HT23-594	NEMA 23	1.61	76.5	1.41	2.83	1.91E-03
HT23-598	NEMA 23	2.13	158	2.12	4.24	3.68E-03
HT23-601	NEMA 23	2.99	269	2.12	4.24	6.51E-03
HT23-603	NEMA 23	4.37	354	2.5	5.0	1.06E-02
HT34-504	NEMA 34	2.62	397	3.18	6.30	1.56E-02
HT34-505	NEMA 34	3.78	850	3.18	6.30	2.62E-02
HT34-506	NEMA 34	4.94	1260	2.80	5.60	3.89E-02