

HT17-278

NEMA 17 High Torque Step Motor

1pc. - \$58.00
 50pc. - \$43.50



Product Features

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



Description






The HT17-278 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.

Specifications

Part Number	HT17-278
Frame Size	NEMA 17
Motor Type	High torque
Part Number w/Double Shaft	NA
Part Number w/Encoder	HT17-278D-WAA
Motor Length	2.47 inches
Number of Lead Wires	8
Lead Wire Configuration	flying leads, no connector
Lead Wire/Cable Length	12 inches
Lead Wire Gauge	26 AWG
Unipolar Holding Torque	79 oz-in
Bipolar Holding Torque	113 oz-in

Step Angle	1.8 deg
Bipolar Series Current	1.0 A/phase
Bipolar Series Resistance	6.4 Ohms/phase
Bipolar Series Inductance	12 mH/phase
Bipolar Parallel Current	2.0 A/phase
Bipolar Parallel Resistance	1.6 Ohms/phase
Bipolar Parallel Inductance	3.0 mH/phase
Unipolar Current	1.4 A/phase
Unipolar Resistance	3.2 Ohms/phase
Unipolar Inductance	3.0 mH/phase
Rotor Inertia	1.74E-03 oz-in-sec ²
Integral Gearhead	No
Weight	1.32 lbs
Storage Temperature	-30 to 70 °C
Operating Temperature	-20 to 50 °C
Insulation Class	Class B (130 °C)
Maximum Radial Load	4.7 lbs
Maximum Thrust Load	2.25 lbs
Shaft Run Out	0.0012 inch T.I.R. max
Radial Play	0.0008 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	 HT17-278_RevB.pdf
3D Drawing	 HT17-278.igs  HT17-278D.igs
Speed-Torque Curves	 StepMtrAppData HT17-278_RevB.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.

Pricing

	HT17-278 Part No. w/ Single Shaft	HT17-278D Part No. w/ Double Shaft	HT17-278D-WAA Part No. w/ Encoder
1pc.	\$58.00	\$58.00	\$184.00
25pc.	\$49.88	\$49.88	\$158.24
50pc.	\$43.50	\$43.50	\$138.00
100pc.	Contact us for 100+ piece pricing.		

Products in the Series *CORE Step Motors*

* Closeout priced products are highlighted in green.

* Items with web only pricing are highlighted in yellow.

Part Number	Frame Size	Length (inch)	Holding Torque (oz-in)	Series Current (A/phase)	Parallel Current (A/phase)	Rotor Inertia (oz-in-sec ²)	1pc./50pc.
HT17-268	NEMA 17	1.31	31.2	0.67	1.34	5.38E-04	\$33.00 / \$24.75
HT17-271	NEMA 17	1.57	52.4	0.85	1.70	8.07E-04	\$37.00 / \$27.75
HT17-275	NEMA 17	1.90	77.9	0.85	1.70	1.16E-03	\$49.00 / \$36.75
HT17-278	NEMA 17	2.47	113	1.0	2.0	1.74E-03	\$58.00 / \$43.50
HT23-594	NEMA 23	1.61	76.5	1.41	2.83	1.91E-03	\$58.00 / \$43.50
HT23-598	NEMA 23	2.13	158	2.12	4.24	3.68E-03	\$57.00 / \$42.75
HT23-601	NEMA 23	2.99	269	2.12	4.24	6.51E-03	\$74.00 / \$55.50
HT23-603	NEMA 23	4.37	354	2.5	5.0	1.06E-02	\$119.00 / \$89.25
HT34-504	NEMA 34	2.62	397	3.18	6.30	1.56E-02	\$108.00 / \$81.00
HT34-505	NEMA 34	3.78	850	3.18	6.30	2.62E-02	\$148.00 / \$111.00
HT34-506	NEMA 34	4.94	1260	2.80	5.60	3.89E-02	\$206.00 / \$154.50