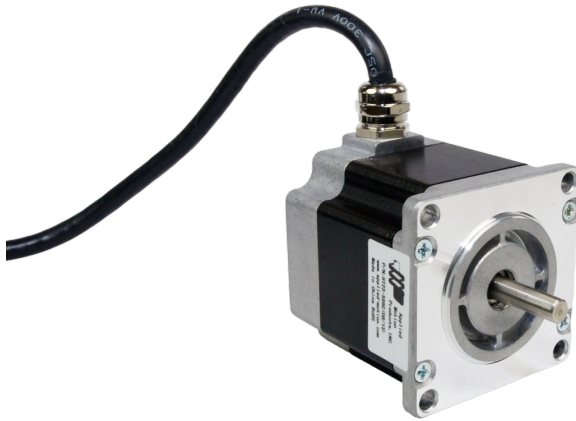


HT23-598C

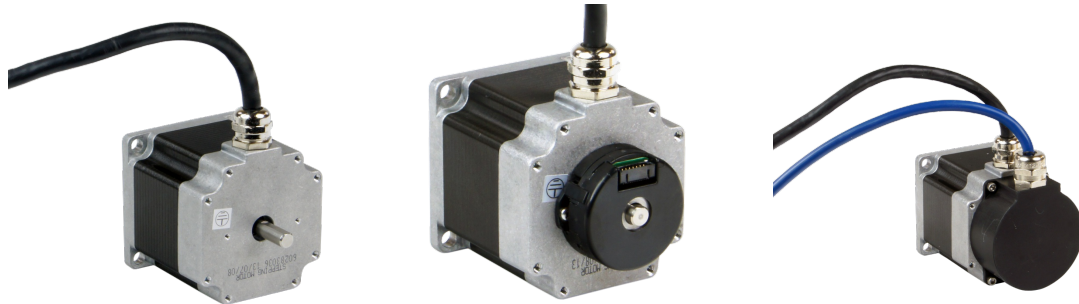
NEMA 23 Step Motor with 10 Foot Shielded Cable

1pc. - \$95.00
 50pc. - \$71.25



Product Features

- 2-phase hybrid step motor
- High torque design
- Standard NEMA 23 dimensions



Description

The HT23-598 two-phase stepper motor is designed for use with the ST5 and STR4 stepper drives and is suitable for a wide range of motion control applications. The motor is optimized for use with DC powered drives and comes with an integral 10 ft shielded cable.

Single and double shaft versions are available. The HT23-598DC-ZAC includes an optical encoder with 10 foot cable and rugged metal cover.

The motor is terminated with 8 motor leads plus 1 ground lead.

Please note: This motor has features which do not conform to standard NEMA for gearhead ordering purposes. Stated lead time for a gearhead ordered with this motor may be longer than shown. Please call for delivery on a gearhead being ordered with this motor.

Specifications

Part Number	HT23-598C
Frame Size	NEMA 23

Motor Type	High torque
Part Number w/Double Shaft	NA
Part Number w/Encoder	HT23-598DC-ZAA
Motor Length	2.35 inches
Number of Lead Wires	8
Lead Wire Configuration	shielded cable, no connector
Lead Wire/Cable Length	120
Lead Wire Gauge	22 AWG
Unipolar Holding Torque	120 oz-in
Bipolar Holding Torque	158 oz-in
Step Angle	1.8 deg
Bipolar Series Current	2.12 A/phase
Bipolar Series Resistance	2.0 Ohms/phase
Bipolar Series Inductance	5.6 mH/phase
Bipolar Parallel Current	4.24 A/phase
Bipolar Parallel Resistance	0.5 Ohms/phase
Bipolar Parallel Inductance	1.4 mH/phase
Unipolar Current	3.00 A/phase
Unipolar Resistance	1.0 Ohms/phase
Unipolar Inductance	1.4 mH/phase
Rotor Inertia	0.0036 oz-in-sec ²
Integral Gearhead	No
Weight	1.32 lbs
Storage Temperature	-30 +70 °C
Operating Temperature	-20 +50 °C
Insulation Class	B
Maximum Radial Load	NA
Maximum Thrust Load	NA
Shaft Run Out	0.002 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	0.002 inches

Downloads

Datasheet	No datasheets available for this product.
2D Drawing	HT23-598C_RevB.pdf HT23-598DC_RevB.pdf HT23-598DC-ZAA_RevA.pdf HT23-598DC-ZAC_RevA.pdf
3D Drawing	HT23-598C.igs HT23-598DC.igs HT23-598DC-ZAA.igs HT23-598DC-ZAC.igs
Speed-Torque Curves	ST_speed-torque.pdf STR_speed-torque.pdf STR2_speed-torque.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

	HT 23-598C Part No. w/ Single Shaft	HT 23-598DC Part No. w/ Double Shaft	HT 23-598DC-ZAA Part No. w/ Encoder	HT 23-598DC-ZAC Part No. w/ Encoder & Cover
1pc.	\$95.00	\$95.00	\$221.00	\$332.00
25pc.	\$81.70	\$81.70	\$190.06	\$285.52
50pc.	\$71.25	\$71.25	\$165.75	\$249.00
100pc.	Contact us for 100+ piece pricing.			

Products in the Series *Cabled 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.
HT23-552	NEMA 23	1.71	84.4	0.71	1.41	1.70E-03	\$86.00 / \$64.50
HT23-553	NEMA 23	2.17	167	0.71	1.41	4.25E-03	\$94.00 / \$70.50
HT23-554	NEMA 23	3.05	255	0.71	1.41	6.80E-03	\$120.00 / \$90.00
HT23-598C	NEMA 23	2.35	158	2.12	4.24	0.0036	\$95.00 / \$71.25
HT23-601C	NEMA 23	3.20	269	2.12	4.24	0.0064	\$135.00 / \$101.25
HT34-495	NEMA 34	3.11	555	2.15	4.30	2.27E-02	\$340.00 / \$255.00
HT34-496	NEMA 34	4.63	1110	2.05	4.10	4.53E-02	\$453.00 / \$339.75
HT34-497	NEMA 34	6.14	1694	2.55	5.10	6.80E-02	\$518.00 / \$388.50
HT34-506C	NEMA 34	4.94	1260	2.8	5.6	0.0387	\$290.00 / \$217.50
HT34-696	NEMA 34	4.59	1110	2.05	4.1	3.87E-02	\$285.00 / \$213.75
HW23-598	NEMA 23	2.34	158	2.12	4.24	3.68E-03	\$179.00 / \$134.25
HW23-601	NEMA 23	3.21	269	2.12	4.24	6.51E-03	\$232.00 / \$174.00
HW23-753	NEMA 23	2.19	153	0.71	1.41	3.12E-03	\$179.00 / \$134.25
HW23-754	NEMA 23	3.23	227	0.71	1.41	6.51E-03	\$232.00 / \$174.00
HW24-108	NEMA 24	3.72	354	NA	4.0	1.27E-02	\$245.00 / \$183.75
HW34-506	NEMA 34	5.0	1260	2.8	5.6	3.87E-02	\$413.00 / \$309.75
HW34-696	NEMA 34	4.59	1062	2.03	4.06	3.87E-02	\$403.00 / \$302.25

Mouser Electronics

Authorized Distributor

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