

Atlas Motion by Summit Electronics

Atlas Engine Nema 23



Power Your Precision

The Ultimate Stepper Motor

Atlas Engine by Summit Electronics

Power Your Precision: The Ultimate Stepper Motor

Take your automation or robotics project to the next level. If you are building a 3D printer, a desktop laser engraver, or a custom 3-axis CNC milling machine: our Atlas Engines Stepper Motor provides the synchronized, high-precision mechanical force your hardware demands. Stop worrying about mismatched motors or choppy transitions. Combining premium engineering, unbeatable value, and full optimization. Ideally combined with our Atlas Control Step 1 or Atlas Control Step 3 for the best performance but these motors work with any stepper controller.

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1 General Specification

<i>Item</i>	<i>Specification/condition</i>
Encoder	N
NEMA	23
MM Size	57 mm
Step Angle	1.8
Lead Wire	4
Step Angle Accuracy	5%
Temperature Rise	80
Ambient Temperature	-20 °C - 50 °C
Insulation Resistance	100 M Ω Min (500VDC)
Dielectric Strength	500 V AC 1 minute
Shaft Radial Play	0.02 mm
Shaft Axial Play	0.08 mm

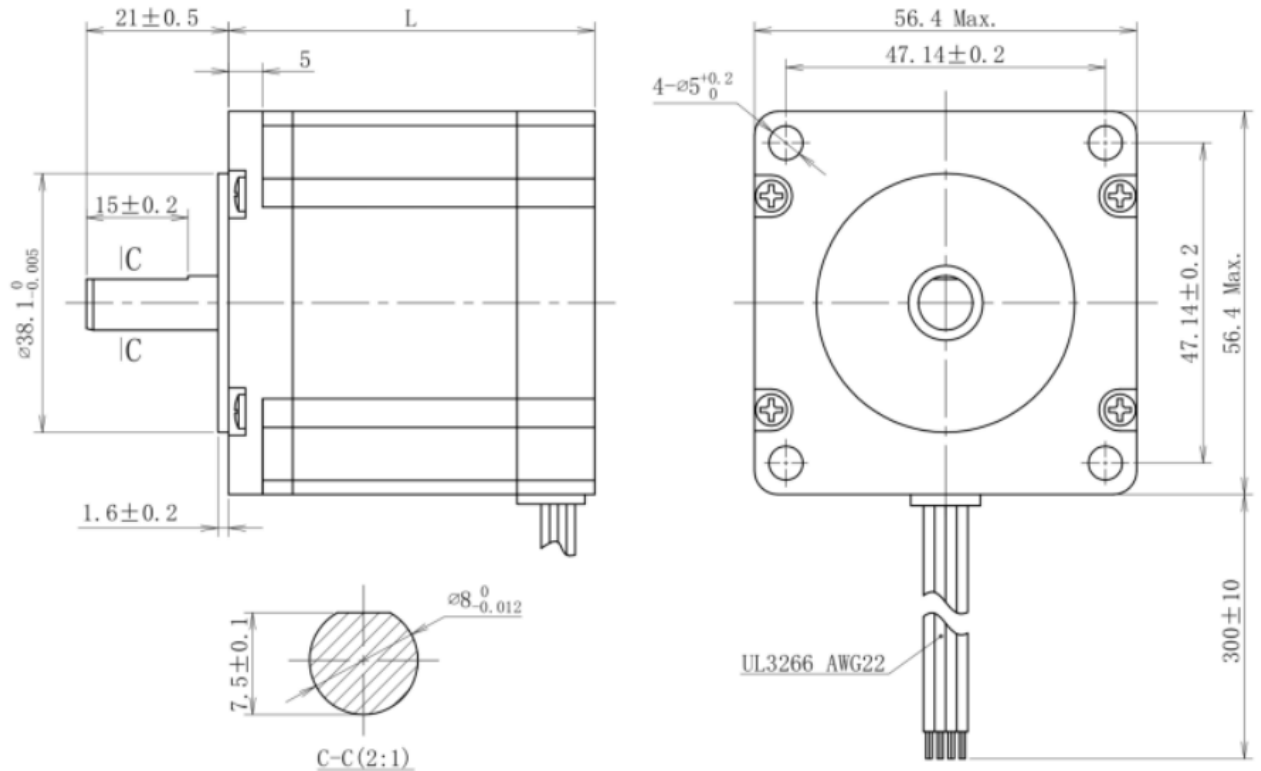
2 Parts Specification

Summit Part Number	Current (A)	Holding Torque (N.m)	Weight (Kg)
SSMM23H2			
SSM23H2-041-000	2	0.5	0.46
SSM23H2-051-000	3	1	0.52
SSM23H2-056-000	3	1.1	0.68
SSM23H2-064-000	3	1.4	0.86
SSM23H2-076-000	3	1.9	1.01
SSM23H2-084-000	4.2	2.2	1.06
SSM23H2-100-000	4.2	2.5	1.2
SSM23H2-112-000	4.2	2.8	1.4

Summit Part Number	Length (mm)	Resistance	Inductance (mH)	Rotor Inertia (g . cm2)
SSM23H2				
SSM23H2-041-000	41	0.51	1.1	130
SSM23H2-051-000	51	0.65	1.9	240
SSM23H2-056-000	56	0.71	2.4	280
SSM23H2-064-000	64	0.84	3.2	340
SSM23H2-076-000	76	1.00	3.2	470
SSM23H2-084-000	84	0.6	2.5	510
SSM23H2-100-000	100	0.85	2.6	680
SSM23H2-112-000	112	0.85	3.1	800

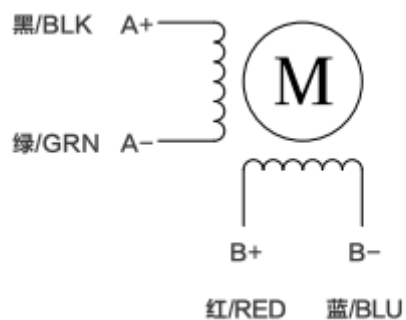
Two-phase stepper motor outline

Dimension: Unit=mm

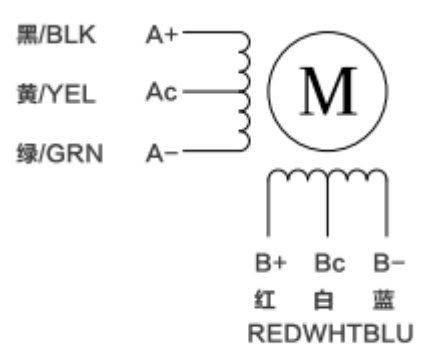


Wiring Diagram

Bi-polar

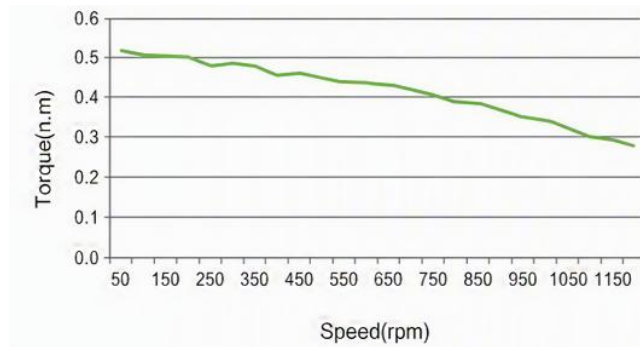


Uni-polar

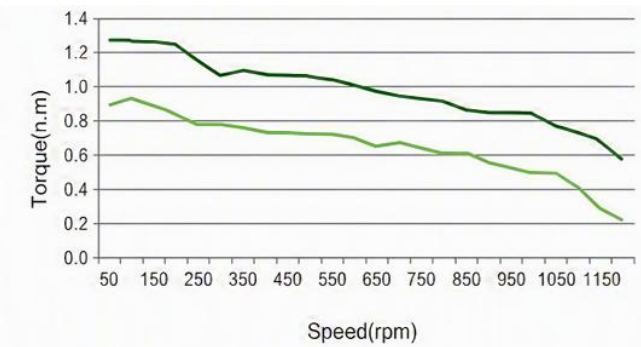


Frequency-torque characteristics

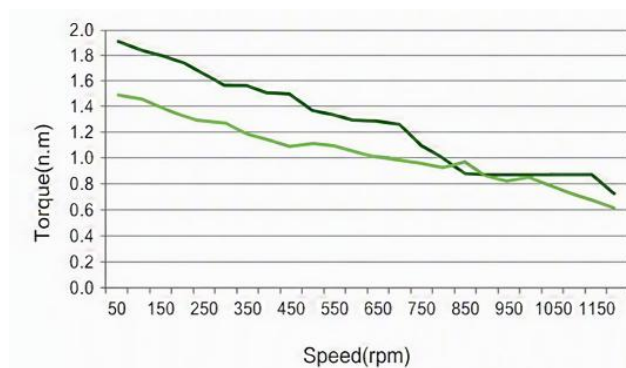
SSM23H2-041-000



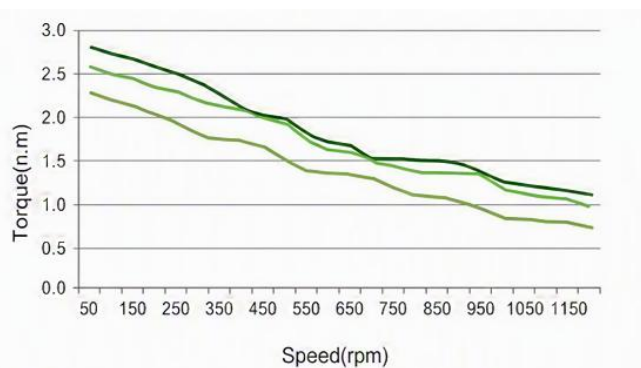
SSM23H2-051-000/ SSM23H2-056-000



SSM23H2-064-000 / SSM23H2-076-000
000 /



SSM23H2-084-000 / SSM23H2-100-
SSM23H2112-000



3 Ordering information

Ordering can be done via www.summit-electronics.com or via info@summit-electronics.com.
Please contact us for more information. Customisation of the product is available on request.

Technical support

For all product questions please contact us via info@summit-electronics.com

Document revision

Rev	Date	changes
2026v1	31/08/2026	First issue of document