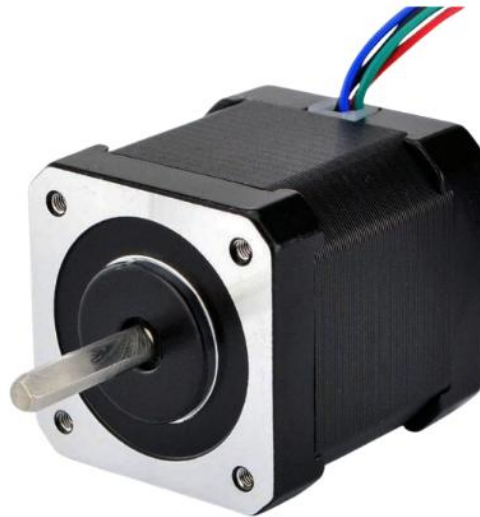


Atlas Motion by Summit Electronics

Atlas Engine Nema 17



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.

Content

Atlas Engine by Summit Electronics	2
1 General Specification	4
2 Parts Specification	5
3 Ordering information	7

1 General Specification

Item	Specification/condition
Encoder	N
NEMA	17
MM Size	42 mm
Current (A)	1.7 A (MAX: 2 A)
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

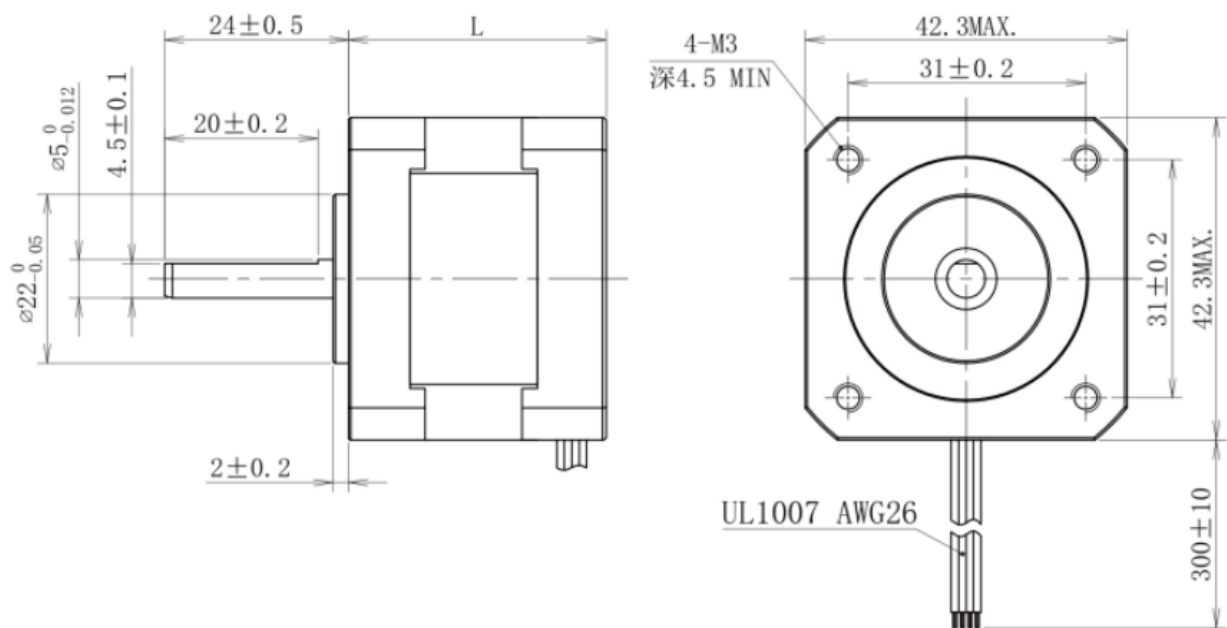
2 Parts Specification

Summit Part Number	Current (A)	Holding Torque (N.m)	Weight (Kg)
SSM17H2			
SSM17H2-034-000	1.7	0.31	0.21
SSM17H2-040-000	1.7	0.46	0.28
SSM17H2-044-000	1.7	0.51	0.43
SSM17H2-048-000	1.7	0.56	0.36
SSM17H2-060-000	2	0.8	0.47

Summit Part Number	Length (mm)	Resistance	Inductance (mH)	Rotor Inertia (g . cm2)
SSM17H2				
SSM17H2-034-000	34	1.45	2.2	40
SSM17H2-040-000	40	1.75	3	57
SSM17H2-044-000	44	1.65	3.5	71
SSM17H2-048-000	48	1.8	3.6	82
SSM17H2-060-000	60	1.5	3.8	110

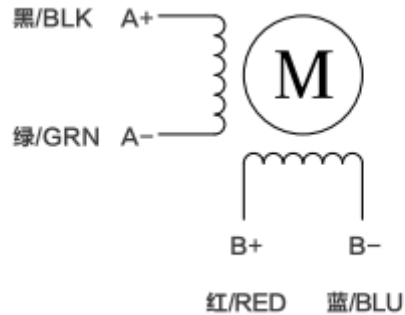
Two-phase stepper motor outline

Dimension: Unit=mm

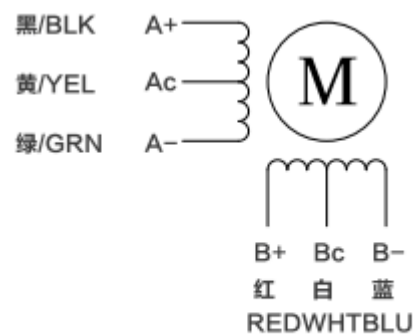


Wiring diagram

Bi-polar

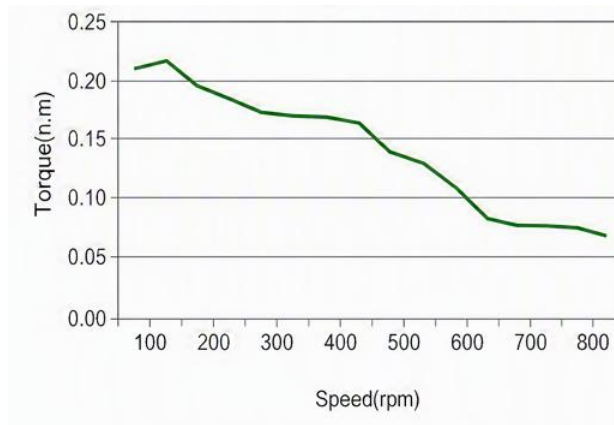


Uni-polar

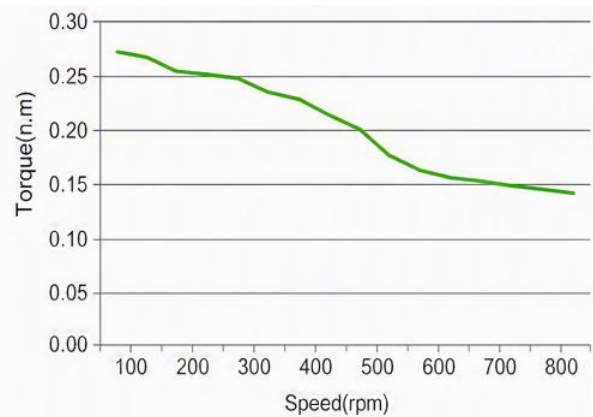


Frequency-torque characteristics

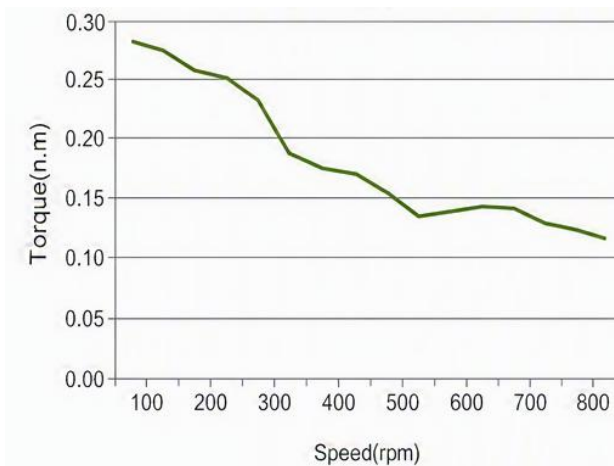
SSM17H2-034-000



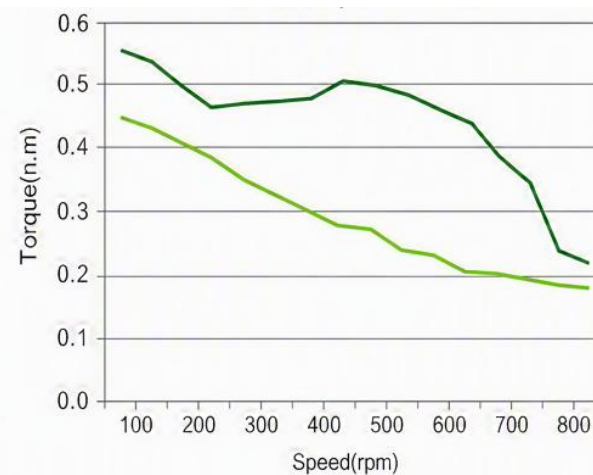
SSM17H2-040-000



SSM17H2-044-000



SSM17H2-048-000 / SSM17H2-060-000



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