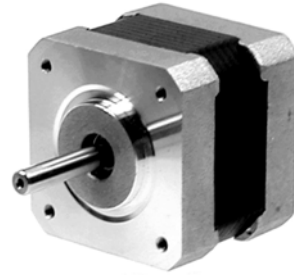


1.8° 42mm (NEMA 17) GM42BYG Stepper Motors

● General Specification

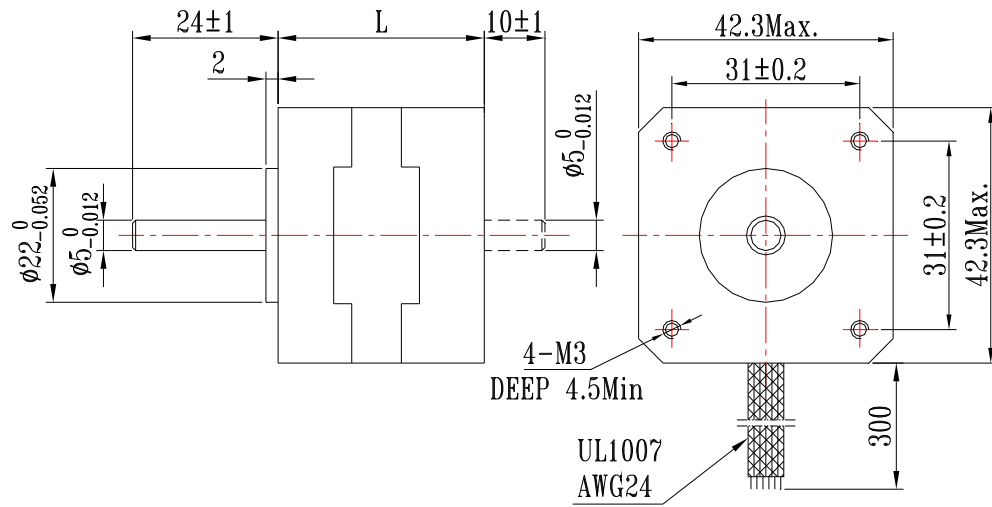
Item	Specifications
Step Angle Accuracy	± 5% (full step, no load)
Resistance Accuracy	± 10%
Inductance Accuracy	± 20%
Temperature Rise	80°C Max. (rated current, 2 phase on)
Ambient Temperature	- 10°C ~ +50°C
Insulation Class	B
Dielectric Strength	500 VAC for one minute
Shaft Radial Play	0.06 Max. (450 g-load)
Shaft Axial Play	0.08 Max. (450 g-load)



● Technique Specifications

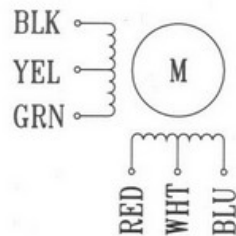
Model No.		Rated Voltage	Current	Resistance	Inductance	Holding Torque		# of Leads	Rotor Inertia	Weight	Length
Single Shaft	Double Shaft	V	A	Ω	mH	Oz-in	Kg-cm		g-cm ²	Kg	mm
GM42BYG015	GM42BYG015B	12	0.3	39	19	16	1.15	6	20	0.2	34
GM42BYG023	GM42BYG023B	12	0.4	30	42	27.78	2.0	4			
GM42BYG228	GM42BYG228B	12	0.4	30	25	27.78	2.0	6	22	0.24	38
GM42BYG304	GM42BYG304B	12	0.3	40	85	38.88	2.8	4	30	0.26	44
GM42BYG401	GM42BYG401B	6	0.8	7.5	5	33.33	2.4	6	0.36	0.29	48

- **Dimensions (mm)**

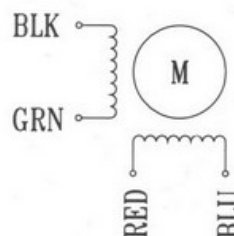


- **Wiring Diagram**

6 LEADS
UNI-POLAR



4 LEADS
BI-POLAR



- **Custom Motor Options**

Custom housing to meet your dimensional requirements

Custom shaft options: extended, slotted, cross drilled, hollow shaft etc

Custom winding to meet your specific application needs

Lead wire options: special lengths, heat shrink, Teflon leads, pins, connectors, cable harnesses etc

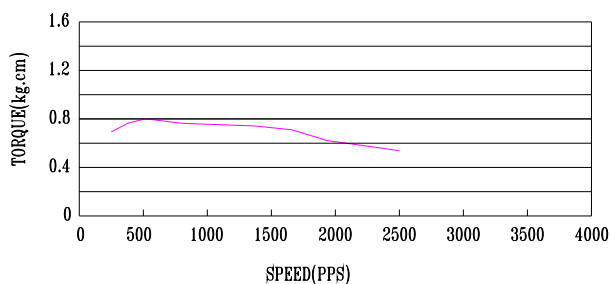
Bearing & lubricant options for high temperature/humid operations

Encoders, gearboxes, sprockets and pulleys installation

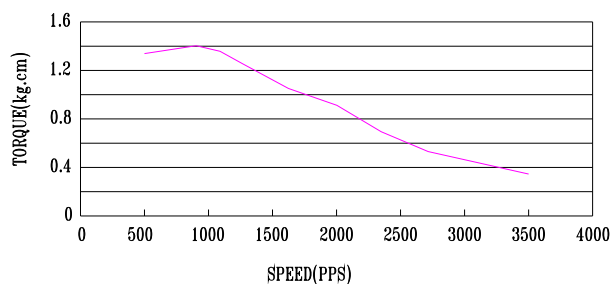
1.8° 42mm (NEMA Size 17) Stepper Motor GM42BYG

Pull out Torque Curve

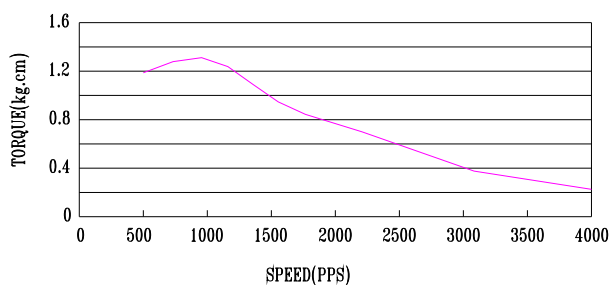
MODEL:42BYG015 EXCITATION:1-2(UNIPOLAR)
VOLTAGE:24V CURRENT:0.3A



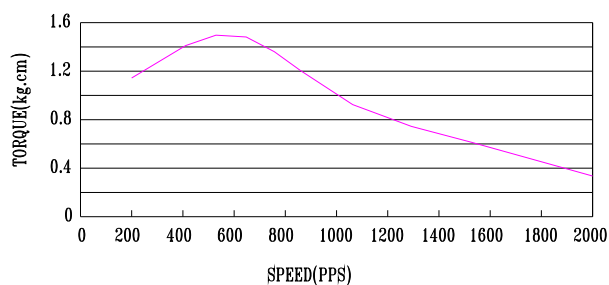
MODEL:42BYG023 EXCITATION:1-2(BIPOLAR)
VOLTAGE:24V CURRENT:0.4A



MODEL:42BYG228 EXCITATION:1-2(UNIPOLAR)
VOLTAGE:24V CURRENT:0.4A



MODEL:42BYG304 EXCITATION:1-2(BIPOLAR)
VOLTAGE:24V CURRENT:0.3A



MODEL:42BYG401 EXCITATION:1-2(UNIPOLAR)
VOLTAGE:24V CURRENT:0.8A

