

Hybrid Stepping Motor with Gearbox (GS series) 42 □



Lineup

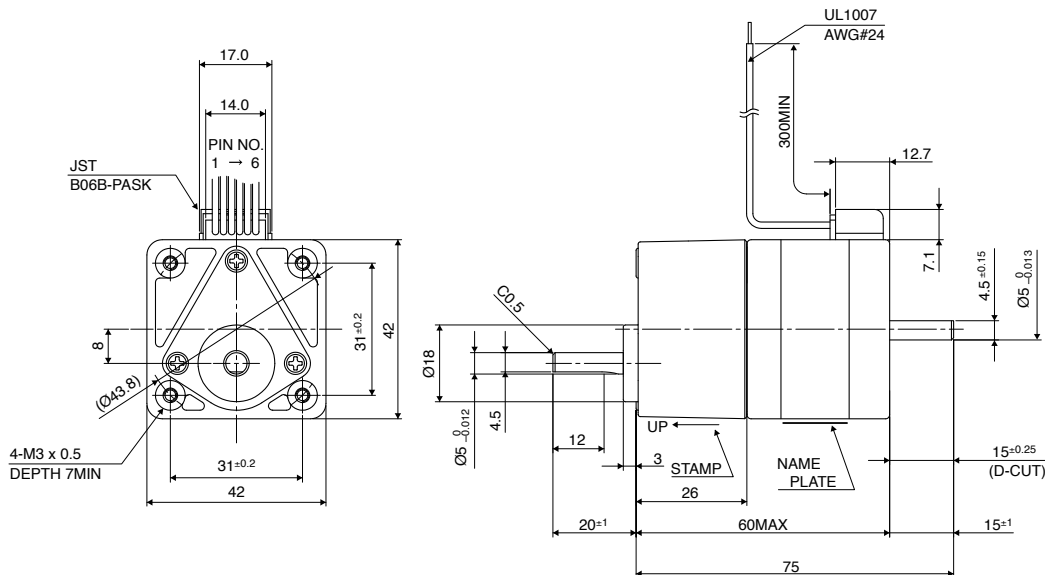
Model	Rated Current (A)	Resistance (Ohms)	Step Angle (deg)	Gear Ratio (1 : X)	Permissible Torque (Nm (kgf · cm))	Permissible Speed Range (r/min)	Backlash (min(deg))	Mass (g)
GS0036-17M001	0.85	4.2	0.5	1 : 3.6	0.2 (2.04)	0 ~ 500	2degree and under	310
GS0072-17M001			0.25	1 : 7.2	0.4 (4.08)	0 ~ 250		310
GS0090-17M001			0.2	1 : 9	0.5 (5.10)	0 ~ 200		310
GS0100-17M001			0.18	1 : 10	0.56 (5.71)	0 ~ 180		310
GS0180-17M001			0.1	1 : 18	0.8 (8.16)	0 ~ 100		320
GS0360-17M001			0.05	1 : 36		0 ~ 50		320
GS0500-17M001			0.036	1 : 50		0 ~ 36		330
GS1000-17M001			0.018	1 : 100		0 ~ 18		330

* Drive Sequence : Unipolar

* Leadwires will be supplied with the motor.

* Direction of rotation of the motor and that of the gear output shaft are the same for the gear ratios 1:3.6, 1:7.2, 1:9, 1:10, 1:50, 1:100. It is the opposite for 1:18 and 1:36 gear ratio.

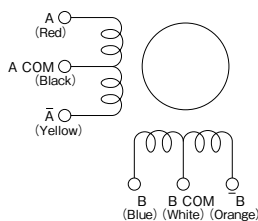
Outline



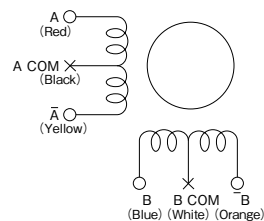
PIN NO. vs. PHASE

(PHASE)	A	A COM	\bar{A}	B	B COM	\bar{B}
(PIN NO.)	3	2	1	4	5	6

UNI POLAR Wiring Connection Diagram



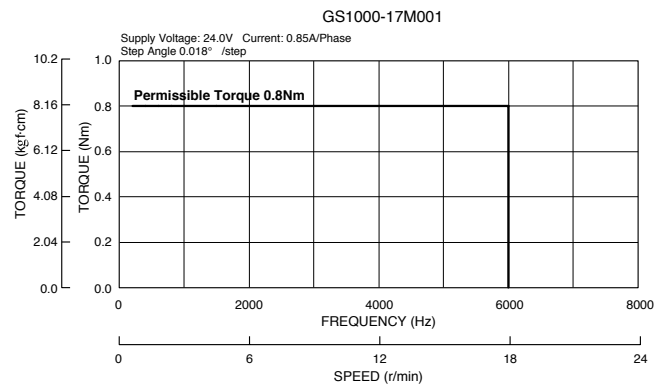
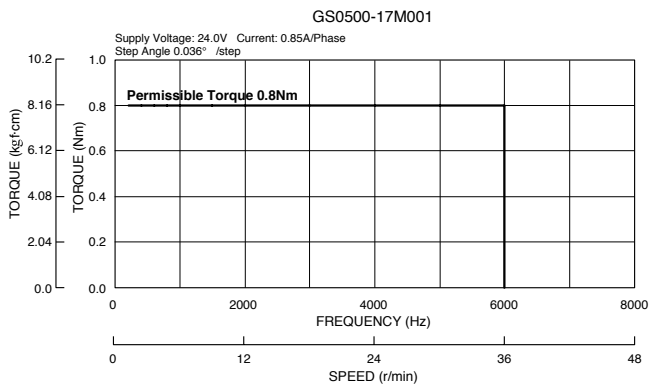
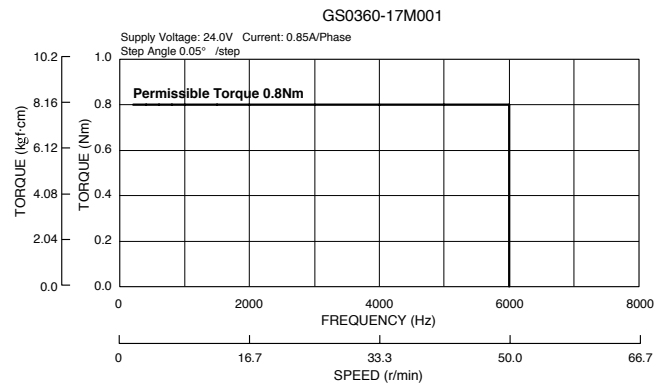
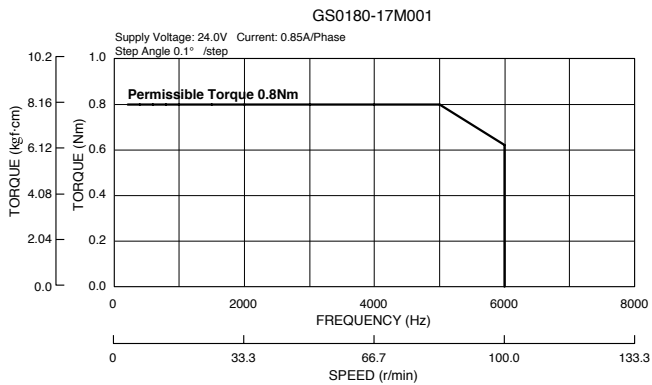
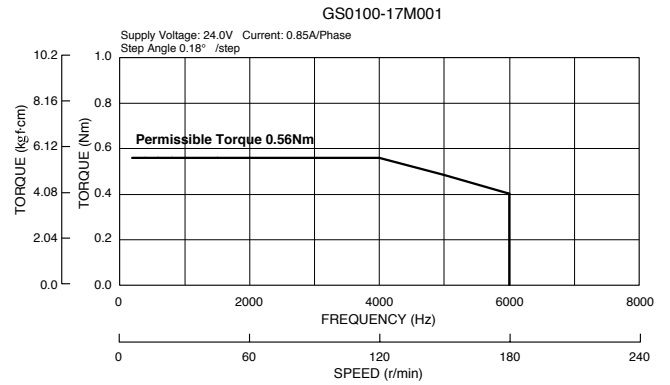
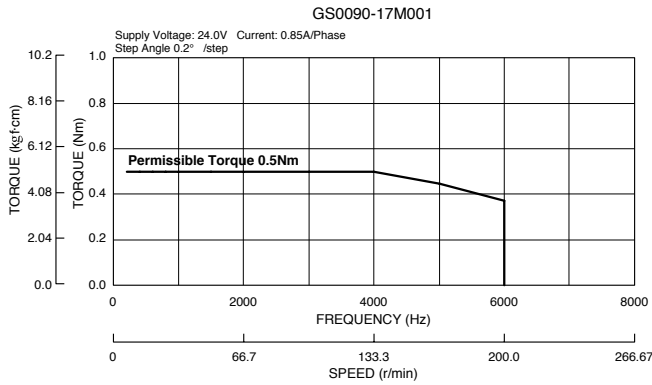
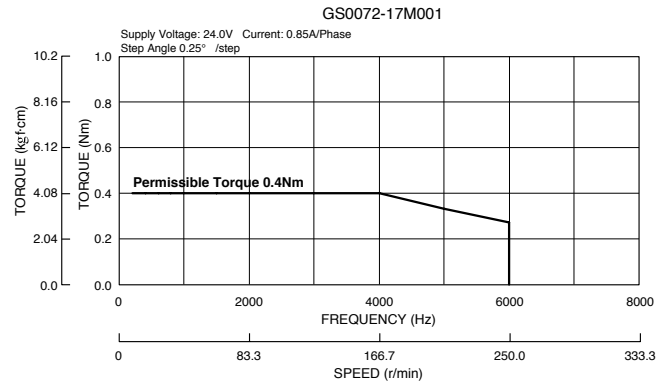
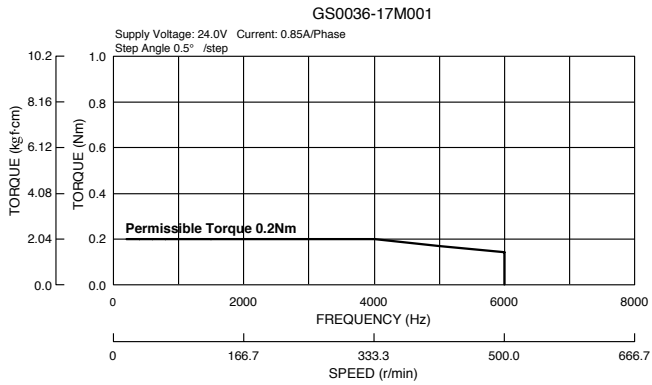
BI POLAR Wiring Connection Diagram



* No need to connect A COM and B COM. Please insulate individually.

* Apply 70% of Unipolar rated current.

Torque Characteristics



General Specifications

Temperature Rise	80°C MAX
Ambient Temperature Range	-10°C ~ +50°C
Insulation Resistance	100M Ω MIN. DC 500V
Dielectric Strength	AC 500V 1min
Permissible Radial Load (at 10mm from shaft end)	20N (2kgf)
Permissible Thrust Load	15N (1.5kgf)

Torque/Speed characteristics are for reference only and it may change when operated at different drive conditions.