

# 2-Phase Hybrid Stepping Motor

**1.8°**

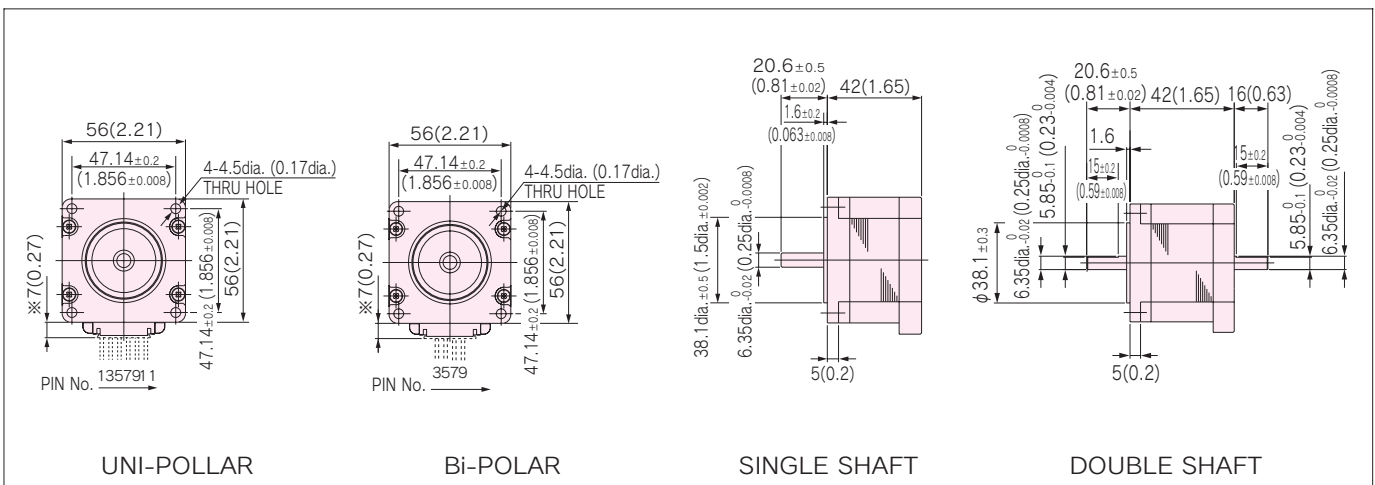
# KH56 series

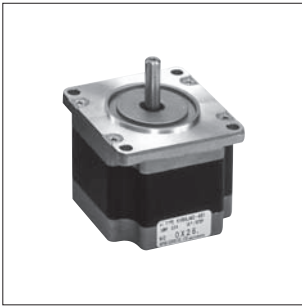
**HIGH TORQUE, LOW VIBRATION AND LOW NOISE**

## STANDARD SPECIFICATIONS

MODEL		KH56JM2				
		SINGLE SHAFT	-901	-902	-903	-951
		DOUBLE SHAFT	-911	-912	-913	-961
DRIVE METHOD	————	UNI-POLAR			BI-POLAR	
NUMBER OF PHASES	————	2			2	
STEP ANGLE	deg./step	1.8			1.8	
VOLTAGE	V	1.68	2.78	4.9	1.96	
CURRENT	A/PHASE	3.0	2.0	1.0	2.0	
WINDING RESISTANCE	Ω/PHASE	0.58	1.39	4.9	0.98	
INDUCTANCE	mH/PHASE	0.61	1.8	6.68	2.27	
HOLDING TORQUE	mN · m	422	422	422	490	
	oz · in	60	60	60	69	
DETENT TORQUE	mN · m	25	25	25	25	
	oz · in	3.5	3.5	3.5	3.5	
ROTOR INERTIA	g · cm <sup>2</sup>	115	115	115	115	
	oz · in <sup>2</sup>	0.62	0.62	0.62	0.62	
WEIGHTS	g	400	400	400	400	
	lb	0.88	0.88	0.88	0.88	
INSULATION RESISTANCE	————	500VDC 100MΩmin.				
DIELECTRIC STRENGTH	————	500VAC 50HZ 1min.				
OPERATING TEMP. RANGE	°C	0 to 50				
ALLOWABLE TEMP. RISE	K	70				

## DIMENSIONS unit = mm (inch)





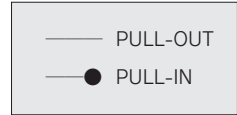
## Features

- Stronger torque generated in higher speed zone (KH56KM2-901 generates 1.2 times torque of our previous model at 1200 r/min. speed)
- Lowered Vibration by increased stiffness of body construction (lowered by 10% than our previous model)
- Improved Efficiency (1.1 times of our previous model, by high grade materials)

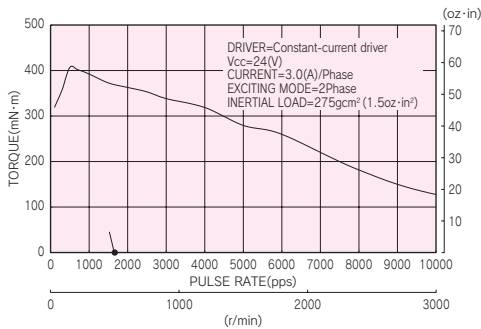
### ■ TORQUE CHARACTERISTICS vs. PULSE RATE

UNI-POLAR

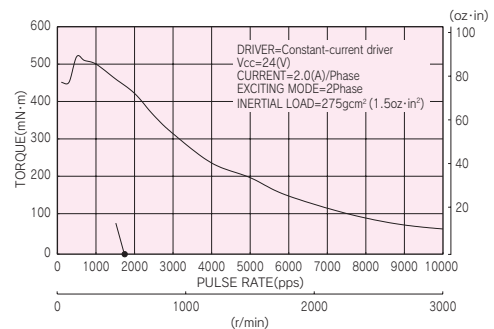
BI-POLAR



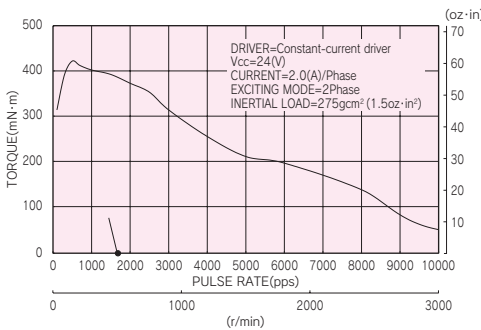
**KH56JM2-901, 911**



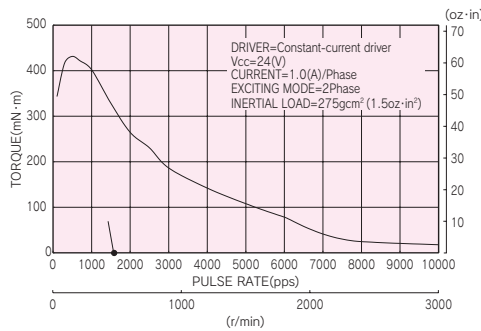
**KH56JM2-951, 961**



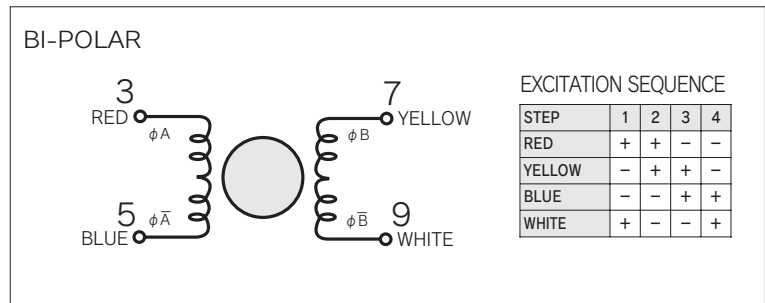
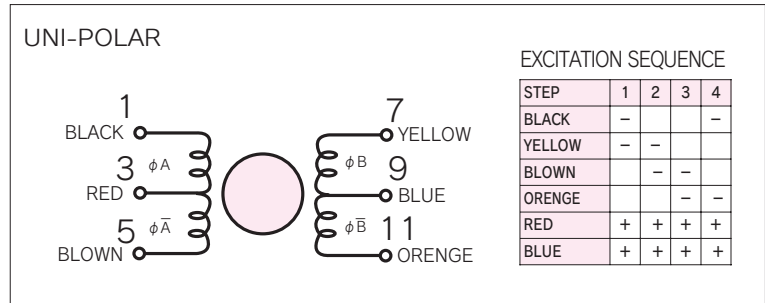
**KH56JM2-902, 912**



**KH56JM2-903, 913**



### ■ CONNECTION DIAGRAMS



### ■ CONNECTION CABLE TO MOTOR unit = mm (inch)

