

2-Phase Hybrid Stepping Motor

1.8°

KH56 series

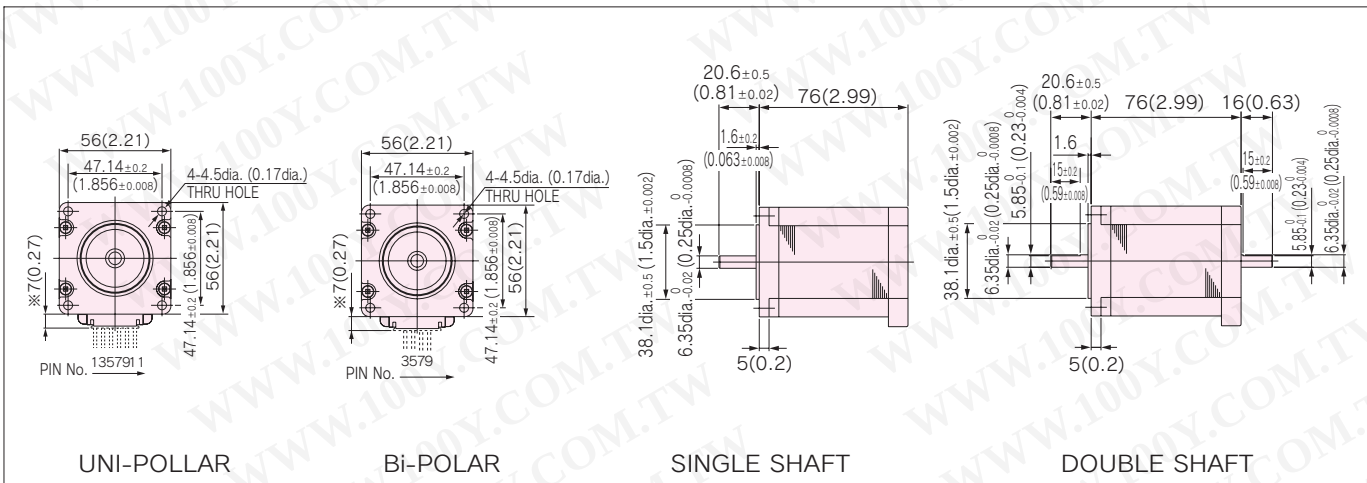
勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

HIGH TORQUE, LOW VIBRATION AND LOW NOISE

STANDARD SPECIFICATIONS

M O D E L		KH56QM2			
	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	3.54	5.46	9.9	4.0
CURRENT	A/PHASE	3.0	2.0	1.0	2.0
WINDING RESISTANCE	Ω/PHASE	1.18	2.73	9.9	2.0
INDUCTANCE	mH/PHASE	2.4	5.4	21.6	7.35
HOLDING TORQUE	mN · m	1324	1324	1324	1373
	oz · in	187	187	187	194
DETENT TORQUE	mN · m	69	69	69	69
	oz · in	9.8	9.8	9.8	9.8
ROTOR INERTIA	g · cm ²	269	269	269	269
	oz · in ²	1.47	1.47	1.47	1.47
WEIGHTS	kg	1.0	1.0	1.0	1.0
	lb	2.2	2.2	2.2	2.2
INSULATION CLASS	—————	JIS Class E (120℃ 248° F) (UL VALUE : CLASS B 130℃ 266° F)			
INSULATION RESISTANCE	—————	500VDC 100MΩmin.			
DIELECTRIC STRENGTH	—————	500VAC 50HZ 1min.			
OPERATING TEMP. RANGE	℃	0 to 50			
ALLOWABLE TEMP. RISE	K	70			

DIMENSIONS unit = mm (inch)





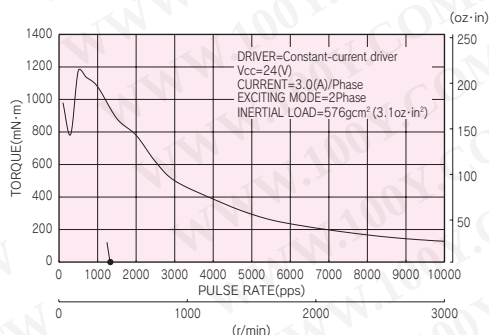
Features

- 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)

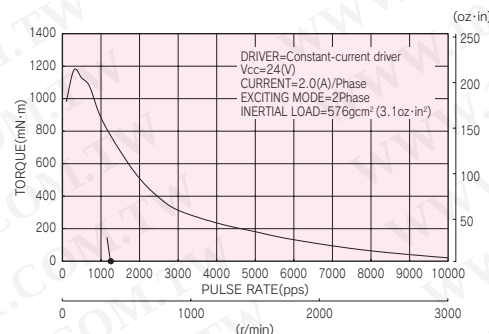
TORQUE CHARACTERISTICS vs. PULSE RATE

UNI-POLAR

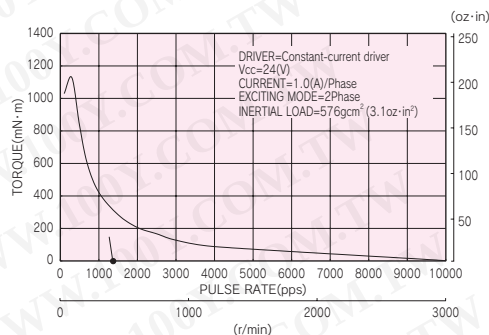
KH56QM2-901, 911



KH56QM2-902, 912

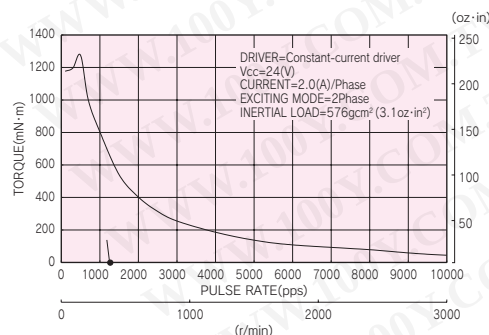


KH56QM2-903, 913



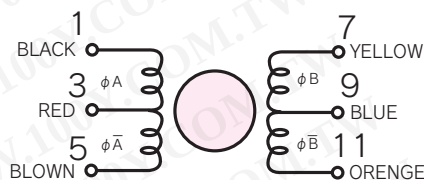
BI-POLAR

KH56QM2-951, 961



CONNECTION DIAGRAMS

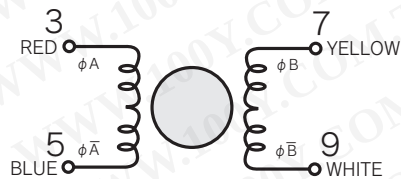
UNI-POLAR



EXCITATION SEQUENCE

STEP	1	2	3	4
BLACK	-	-	-	-
YELLOW	-	-	-	-
BROWN	-	-	-	-
ORANGE	-	-	-	-
RED	+	+	+	+
BLUE	+	+	+	+

BI-POLAR

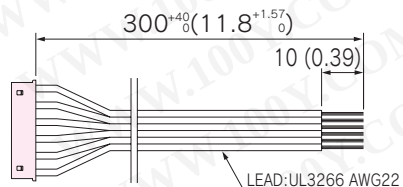


EXCITATION SEQUENCE

STEP	1	2	3	4
RED	+	+	-	-
YELLOW	-	+	+	-
BLUE	-	-	+	+
WHITE	+	-	-	+

CONNECTION CABLE TO MOTOR unit = mm (inch)

UNI-POLAR



BI-POLAR

