

2-Phase Hybrid Stepping Motor

KH56 series

Rare earth magnet models		Non-rare earth magnet models	
KH56KM2-901	⇒	KH56KM2-906	
KH56KM2-902	⇒	KH56KM2-907	
KH56KM2-903	⇒	KH56KM2-908	
KH56KM2-911	⇒	KH56KM2-916	
KH56KM2-912	⇒	KH56KM2-917	
KH56KM2-913	⇒	KH56KM2-918	
KH56KM2-951	⇒	KH56KM2-956	
KH56KM2-961	⇒	KH56KM2-966	

* For red-lines product,

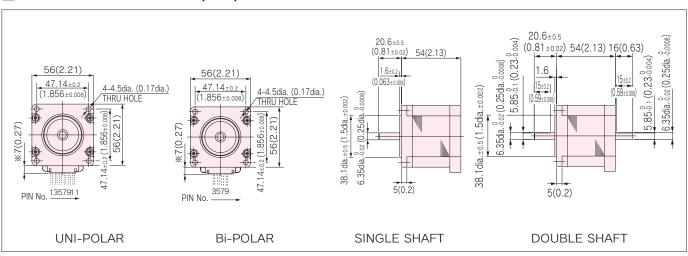
Please contact us from our website .

HP: http://www.nidec.com/en/nidec-servo

STANDARD SPECIFICATIONS

■ STANDARD SPECIF	-ICATIONS	ΠONS					
		KH56KM2					
MODEL	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	2.3	3.6	6.71	2.4		
CURRENT	A/PHASE	3.0	2.0	1.0	2.0		
WINDING RESISTANCE	Ω/PHASE	0.77	1.79	6.71	1.32		
INDUCTANCE	mH/PHASE	1.04	3.0	9.36	3.19		
HOLDING TORQUE	mN · m	834	834	834	932		
	oz · in	118	118	118	132		
DETENT TORQUE	mN · m	37	37	37	37		
	oz · in	5.2	5.2	5.2	5.2		
ROTOR INERTIA	g·cm²	188	188	188	188		
	oz · in²	1.0	1.0	1.0	1.0		
WEIGHTS	g	650	650	650	650		
	lb	1.4	1.4	1.4	1.4		
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 increasing stiffness of body construction (lowered by 10% than our previous model)
- Improved Efficiency
 (1.1 times of our previous model, with high grade materials)

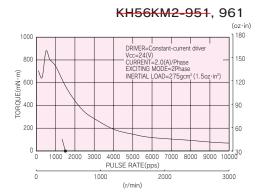
■ TORQUE CHARACTERISTICS vs. PULSE RATE

UNI-POLAR

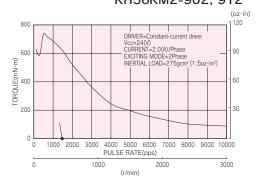
KH56KM2-901, 911 (oz-in) DRIVER-Constant-current driver vc=24(V) CURRENT-3.0(A)/Phase EXCITING MODE-2Phase INERTIAL LOAD-275gcm² (1.5oz-in²) 1000 PULSE RATE(pps) 1000 2000 3000 (r/min)

BI-POLAR

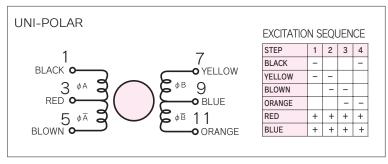


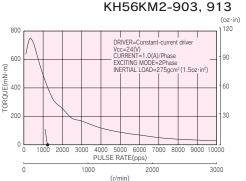


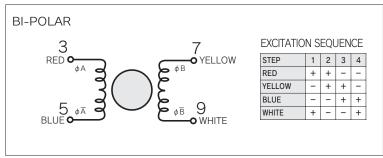
KH56KM2-902, 912



CONNECTION DIAGRAMS







■ CONNECTION CABLE TO MOTOR unit = mm (inch)

