2-Phase Hybrid Stepping Motor 1.8°



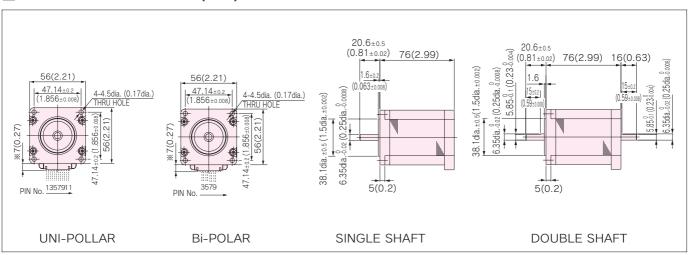
KH56 series

HIGH TORQUE, LOW VIBRATION AND LOW NOISE

■ STANDARD SPECIFICATIONS

MODEL		KH56QM2			
	SINGLE SHAFT	-901	-902	-903	-951
	DOUBLE SHAFT	-911	-912	-913	-961
DRIVE METHOD		UNI-POLAR			BI-POLAR
NUMBER OF PHASES		2 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 · cm²	269	269	269	269
	oz · in²	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	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

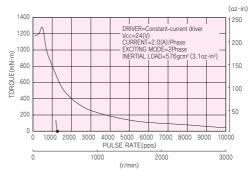
UNI-POLAR

KH56QM2-901, 911 1400 1 250 DRIVER=Constant-current drive 1200 INERTIAL LOAD=576gcm² (3.1oz·in²) TORQUE(mN-800 150 600 100 400 200 4000 5000 6000 PULSE RATE(pps) 0 1000 2000

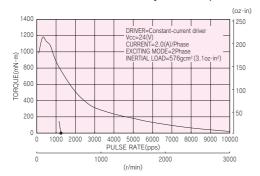
BI-POLAR



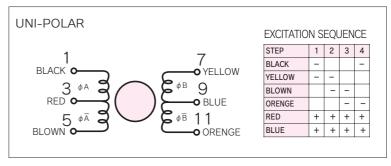




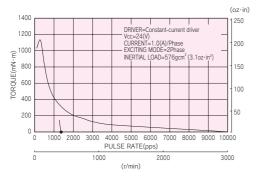
KH56QM2-902, 912

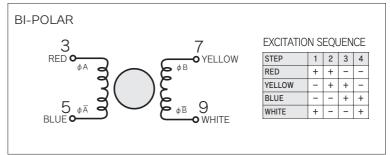


■ CONNECTION DIAGRAMS









■ CONNECTION CABLE TO MOTOR unit = mm (inch)

