2-Phase Hybrid Stepping Motor 1.8°



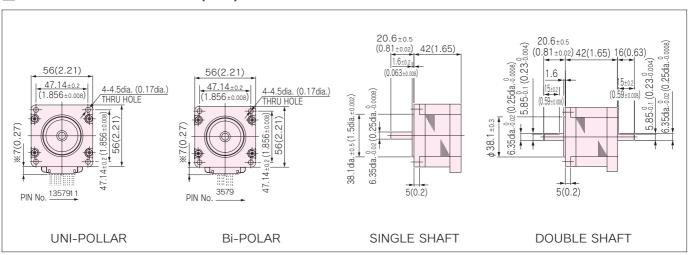
KH56 series

HIGH TORQUE, LOW VIBRATION AND LOW NOISE

■ STANDARD SPECIFICATIONS

		KH56JM2			
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	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 · cm²	115	115	115	115
	oz · in²	0.62	0.62	0.62	0.62
WEIGHTS	g	400	400	400	400
	lb	0.88	0.88	0.88	0.88
INSULATION CLASS		JIS Class E (120°C 248° F) (UL VALUE : CLASS B 130°C 266° F)			
INSULATION RESISTANCE		500VDC 100MΩmin.			
DIELECTRIC STRENGTH		500VAC 50HZ 1min.			
OPERATING TEMP. RANGE	\mathcal{C}	0 to 50			
ALLOWABLE TEMP.RISE	K	70			

DIMENSIONS unit = mm (inch)



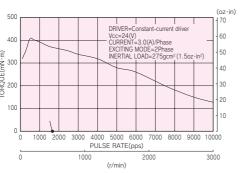
Features

- 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**

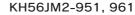
500 DRIVER=Constant-current driver Vcc=24(V)
CURRENT=3.0(A)/Phase
EXCITING MODE=2Phase
INERTIAL LOAD=275gcm² (1.5oz·in²) 60 400 TORQUE(mN-1 40 30 20

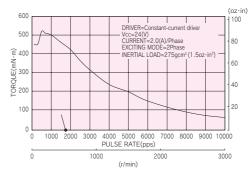
KH56JM2-901, 911



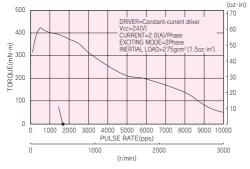
BI-POLAR



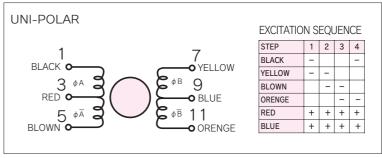


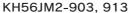


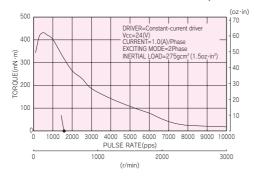
KH56JM2-902, 912

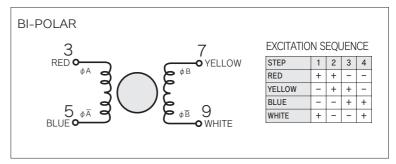


CONNECTION DIAGRAMS









■ CONNECTION CABLE TO MOTOR unit = mm (inch)

