

2-Phase Hybrid Stepping Motor

1.8°

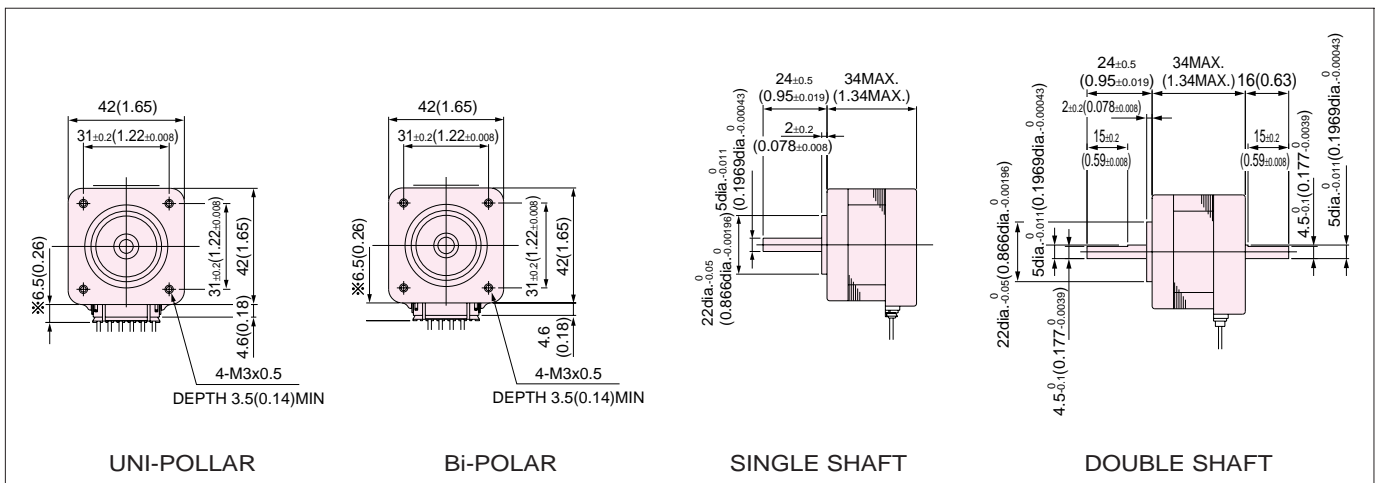
KH42 series 900 type

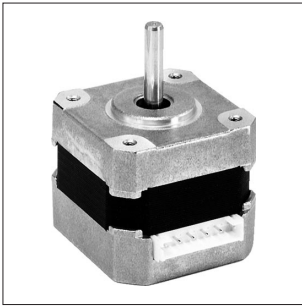
HIGH TORQUE, LOW VIBRATION AND LOW NOISE

STANDARD SPECIFICATIONS

MODEL	KH42HM2				
	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	3.06	5.57	6.76	3.10
CURRENT	A/PHASE	0.9	0.58	0.46	1.0
WINDING RESISTANCE	Ω/PHASE	3.4	9.6	14.7	3.1
INDUCTANCE	mH/PHASE	2.4	6.0	9.3	4.3
HOLDING TORQUE	mN • m	140	140	140	197
	oz • in	20	20	20	20
DETENT TORQUE	mN • m	11.8	11.8	11.8	11.8
	oz • in	1.7	1.7	1.7	2.1
ROTOR INERTIA	g • cm ²	38	38	38	38
	oz • in ²	0.21	0.21	0.21	0.21
WEIGHTS	g	200	200	200	200
	lb	0.44	0.44	0.44	0.57
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	°C	0 to 50			
ALLOWABLE TEMP.RISE	deg.	70			

DIMENSIONS unit = mm (inch)





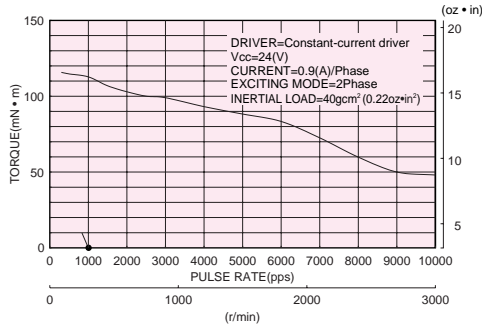
Features

- Improved Dynamic Torque
(1.2 times torque of our previous model is generated at 300 r/min, on model : KH42JM2-901)
- Lowered Vibration & Noise Level
(by increased stiffness of body construction)
- Improved Efficiency
(1.1 times of our previous model, by high grade materials.)

TORQUE CHARACTERISTICS vs. PULSE RATE

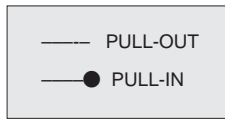
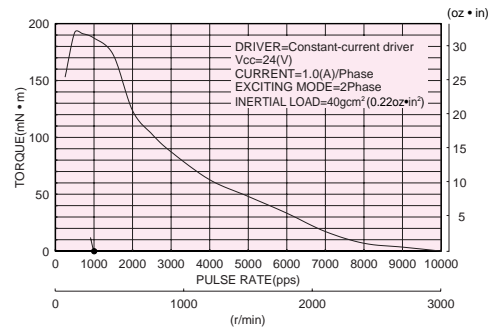
UNI-POLAR

KH42HM2-901, 911

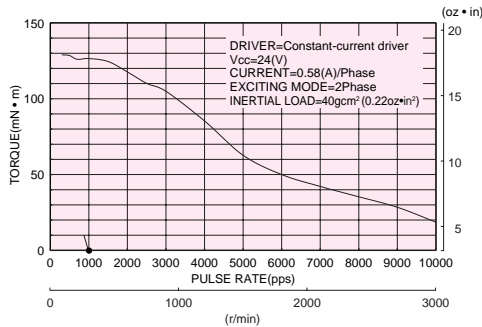


BI-POLAR

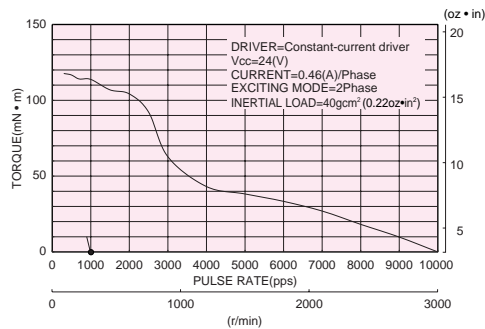
KH42HM2-951, 961



KH42HM2-902, 912

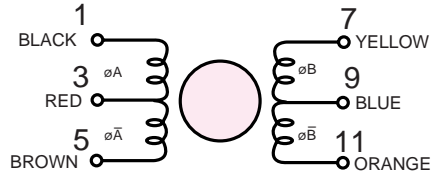


KH42HM2-903, 913



CONNECTION DIAGRAMS

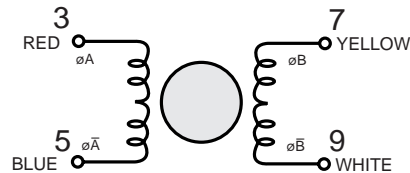
UNI-POLAR



EXCITATION SEQUENCE

STEP	1	2	3	4
BLACK(1)	-	-	-	-
YELLOW(7)	-	-	-	-
BROWN(5)	-	-	-	-
ORANGE(11)	-	-	-	-
RED(3)	+	+	+	+
BLUE(9)	+	+	+	+

BI-POLAR

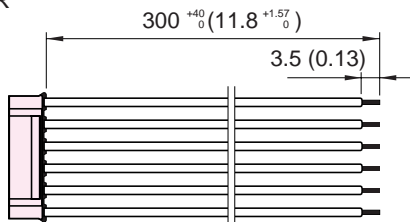


EXCITATION SEQUENCE

STEP	1	2	3	4
RED(3)	+	-	-	+
YELLOW(7)	+	+	-	-
BLUE(5)	-	+	+	-
WHITE(9)	-	-	+	+

CONNECTION CABLE TO MOTOR unit = mm (inch)

UNI-POLAR



BI-POLAR

