

1.8^o

HIGH TORQUE, LOW VIBRATION AND LOW NOISE

M O D E L	UNIT	KH42HM2				
		-801	-802	-803	-851	-852
DRIVE METHOD	————	UNI-POLAR			BI-POLAR	
NUMBER OF PHASES	————	2			2	
STEP ANGLE	deg./step	1.8			1.8	
VOLTAGE	V	3.96	6.0	9.6	5.57	8.51
CURRENT	A/PHASE	0.82	0.54	0.34	0.58	0.38
WINDING RESISTANCE	Ω/PHASE	4.8	11.2	28.2	9.6	22.4
INDUCTANCE	mH/PHASE	2.4	5.4	11.5	9.2	21.5
HOLDING TORQUE	kgf · cm	1.3	1.3	1.3	2.0	2.0
	oz · in	18	18	18	28	28
DETENT TORQUE	gf · cm	120	120	120	150	150
	oz · in	1.7	1.7	1.7	2.1	2.1
ROTOR INERTIA	g · cm ²	42	42	42	42	42
	oz · in ²	0.23	0.23	0.23	0.23	0.23
WEIGHTS	g	200	200	200	260	260
	lb	0.44	0.44	0.44	0.57	0.57
INSULATION CLASS	————	JIS Class E (120℃ 248° F)(UL VALUE : CLASS B-130℃ 266° F)				
INSULATION RESISTANCE	————	500VDC 100MΩmin.				
DIELECTRIC STRENGTH	————	500VAC 50HZ 1 min.				
OPERATING TEMP. RANGE	℃	0 to 50				
ALLOWABLE TEMP.RISE	deg.	70				

The drawing shows a 16-pin DIP package. The top view is a square with rounded corners, 1.65 inches (42 mm) on each side. It features a central circular area and four mounting holes. The pin pitch is 0.100 inches (2.54 mm). The pin width is 0.086 inches (2.19 mm). The pin height is 0.196 inches (5.00 mm). The package is labeled with (1), (3), (5), (7), (9), (11), (13), and (15) on the left side. The side view shows a maximum height of 1.34 inches (34 mm) and a maximum width of 0.95 inches (24 mm). The package is labeled with (4) - M3 x 0.5 (DIP 4MIN) and (2) ± 0.2. The package is labeled with NAME PLATE and PIN NO.



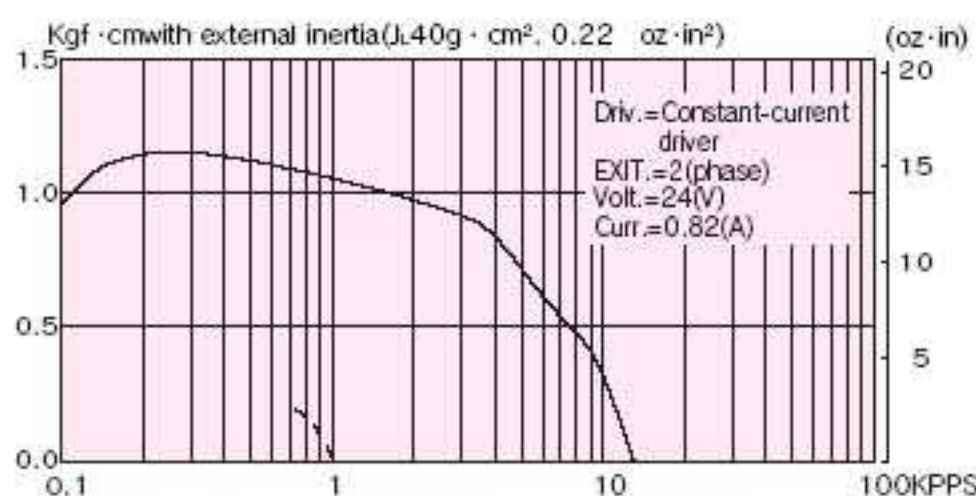
This is our new series 800 Type, which maintains the high torque performance of our conventional 500 Type and lowers vibration and noise .

- High efficiency and high torque have been achieved through our intensive research on magnetic circuitry.
- A unique tooth profile has been employed through the development of a new proven theory to achieve low vibration and low noise.

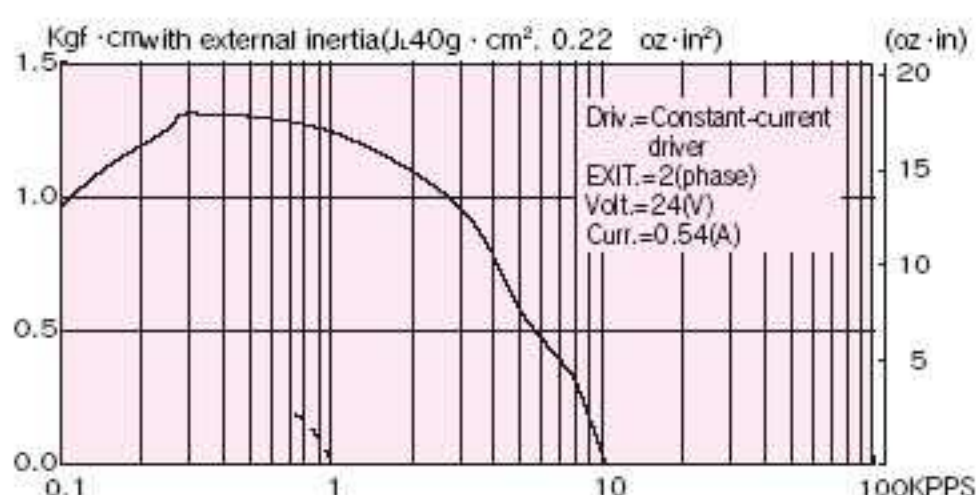
■ TORQUE CHARACTERISTICS vs. PULSE RATE

UNI-POLAR

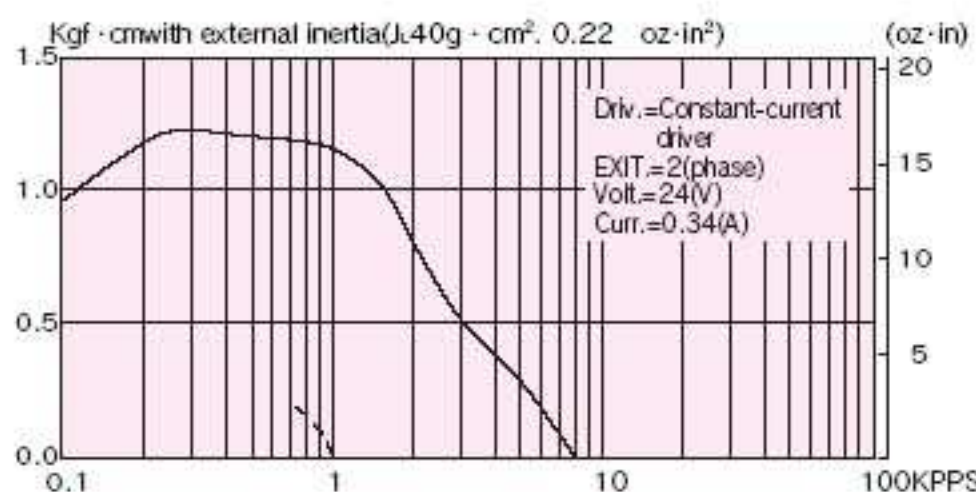
KH42HM2-801



KH42HM2-802

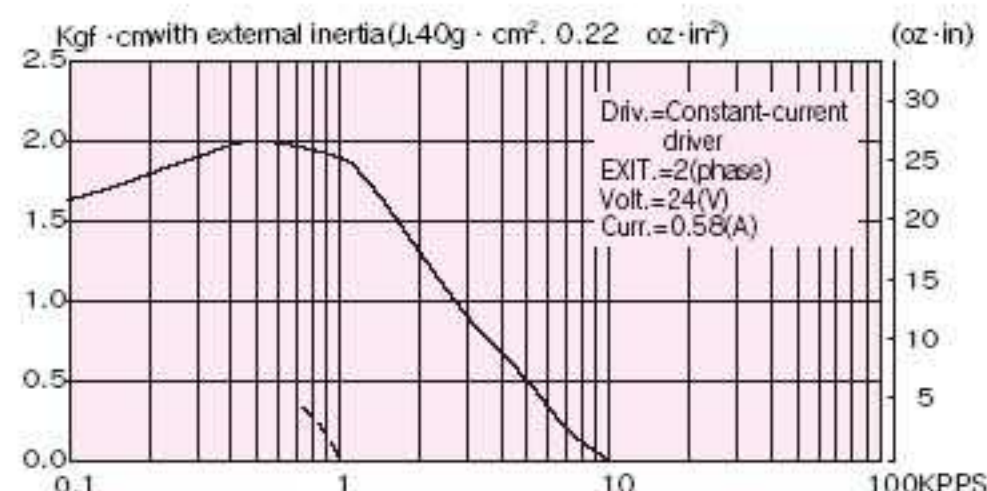


KH42HM2-803

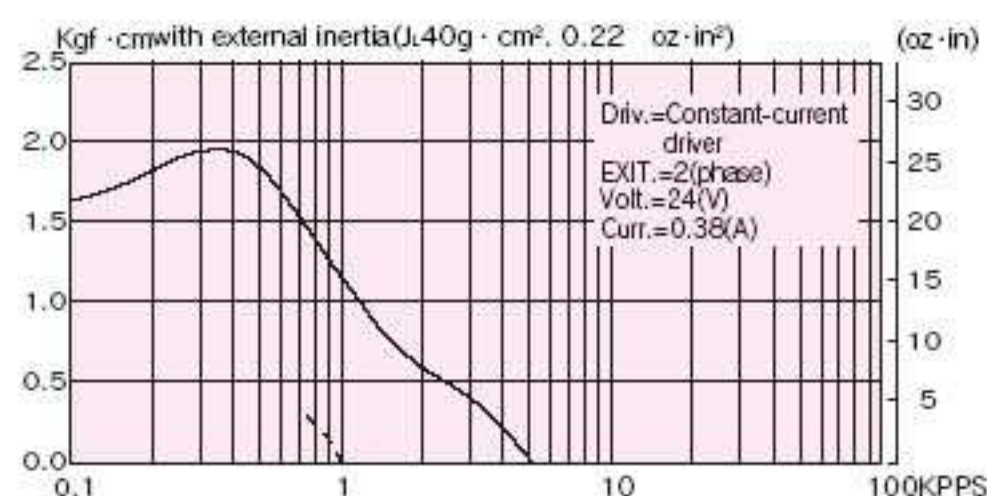


BI-POLAR

KH42HM2-851

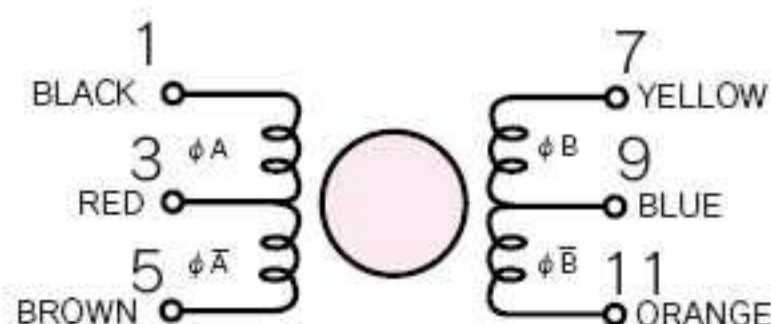


KH42HM2-852



■ CONNECTION DIAGRAMS

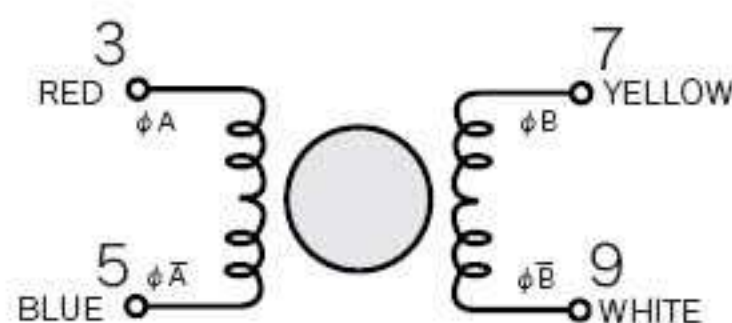
UNI-POLAR (-801,2,3)



EXCITATION SEQUENCE

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

BI-POLAR (-851,2)

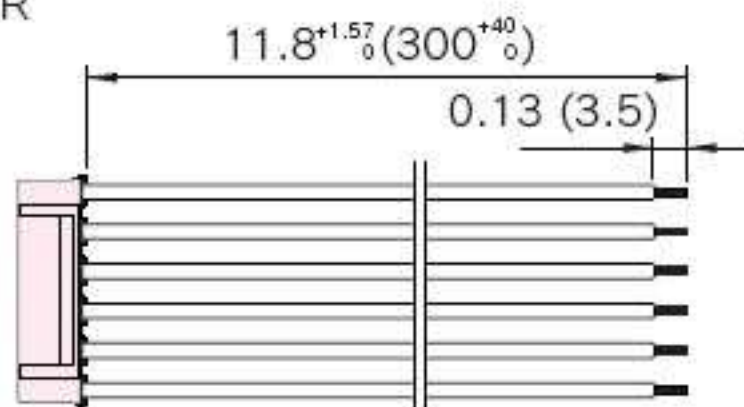


EXCITATION SEQUENCE

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

■ CONNECTION CABLE TO MOTOR unit = inch (mm)

UNI-POLAR



BI-POLAR

