

2-Phase Hybrid Stepping Motor

1.8°

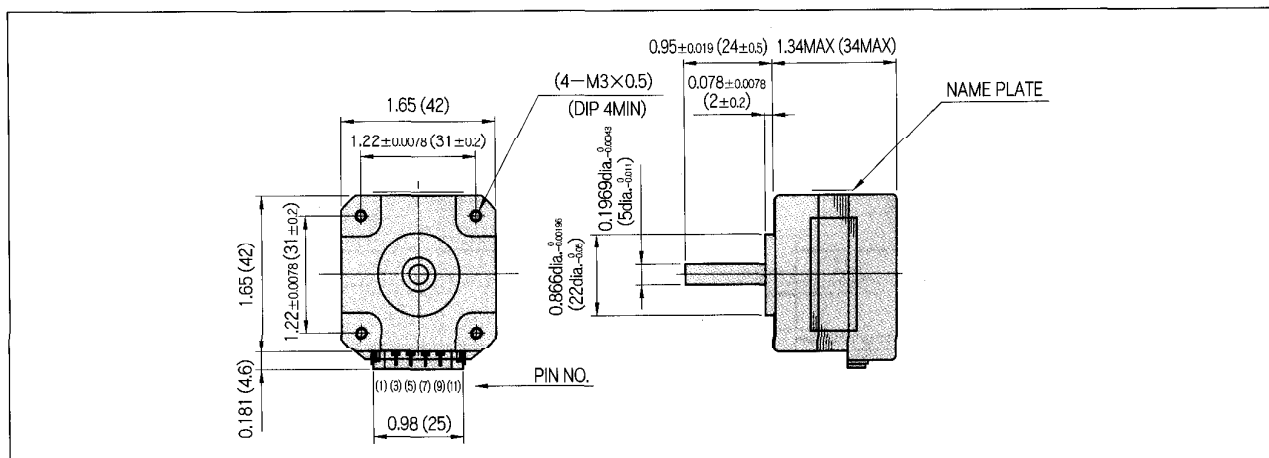
KH42 series 800 type

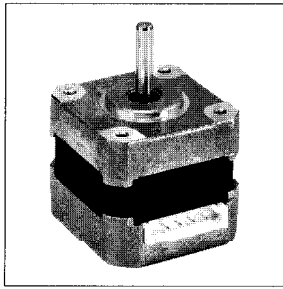
HIGH TORQUE, LOW VIBRATION AND LOW NOISE

STANDARD SPECIFICATIONS

MODEL	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	3.06	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°C 248° F) (UL VALUE : CLASS B-130°C 266° F)				
INSULATION RESISTANCE	————	500VDC 100MΩ min.				
DIELECTRIC STRENGTH	————	500VAC 50HZ 1 min.				
OPERATING TEMP. RANGE	°C	0 to 50				
ALLOWABLE TEMP.RISE	deg.	70				

DIMENSIONS unit = inch (mm)

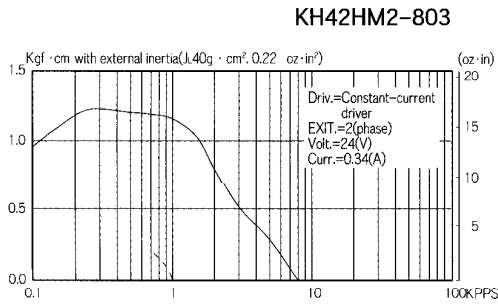
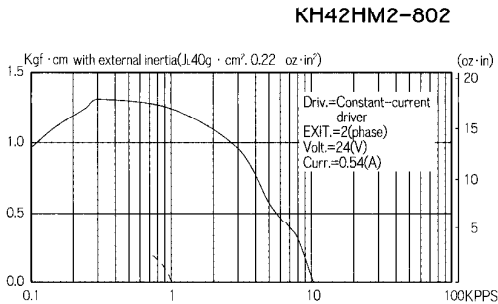
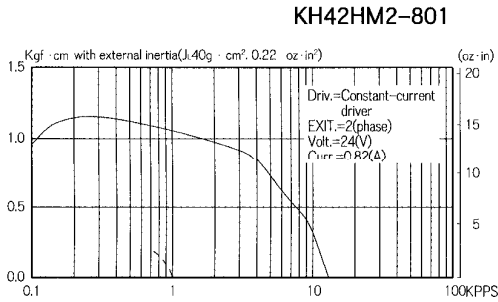




This is our new series 800 Type, which maintains the high torque performance of our conventional 500 Type and lowers vibration and noise .

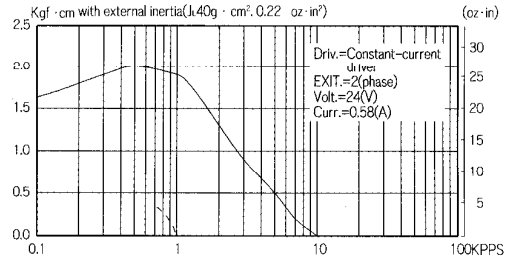
- High efficiency and high torque have been achieved through our intensive research on magnetic circuitry.
- A unique tooth profile has been employed through the development of a new proven theory to achieve low vibration and low noise.

TORQUE CHARACTERISTICS vs. PULSE RATE
UNI-POLAR

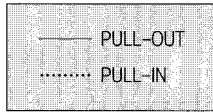
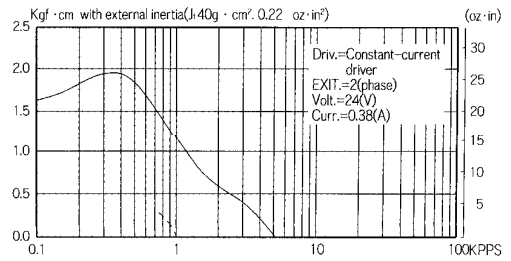


BI-POLAR

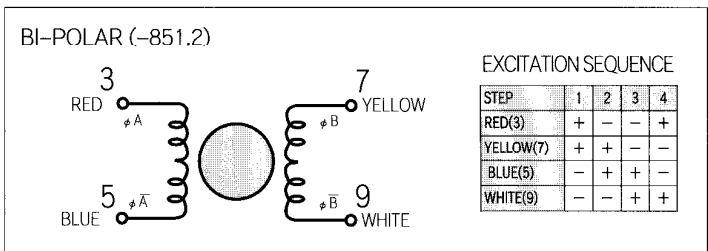
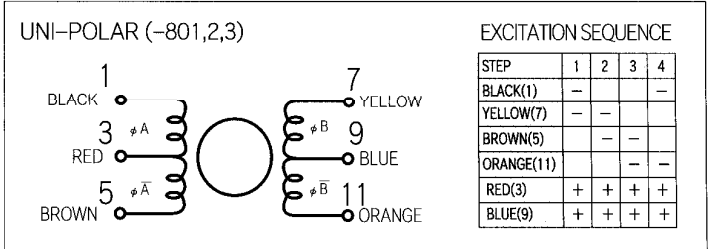
KH42HM2-851



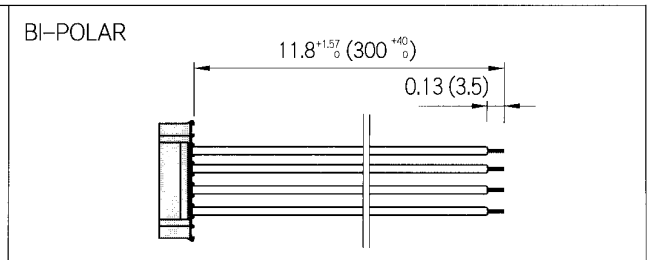
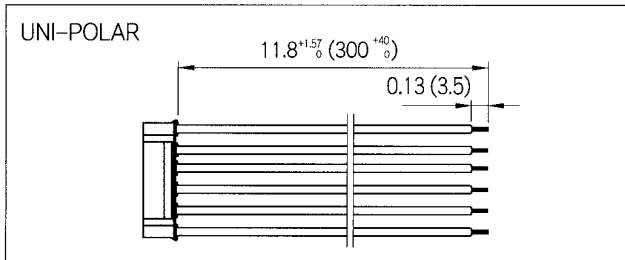
KH42HM2-852

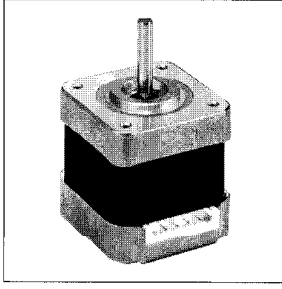


CONNECTION DIAGRAMS



CONNECTION CABLE TO MOTOR unit = inch (mm)

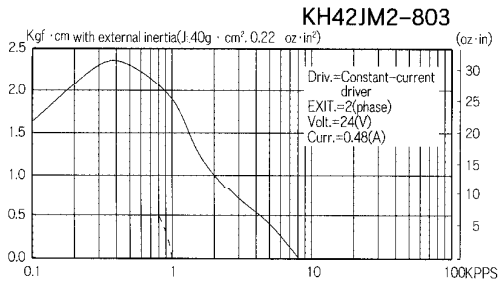
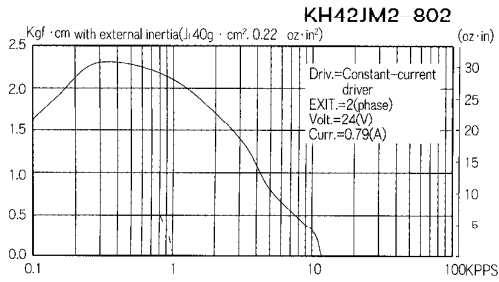
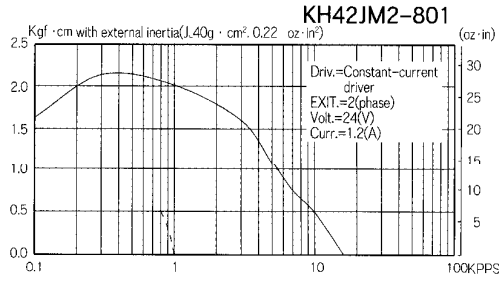




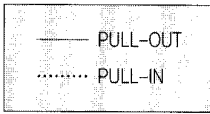
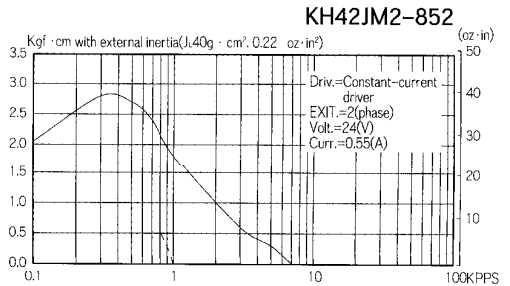
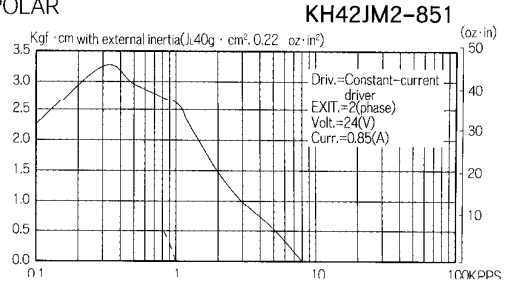
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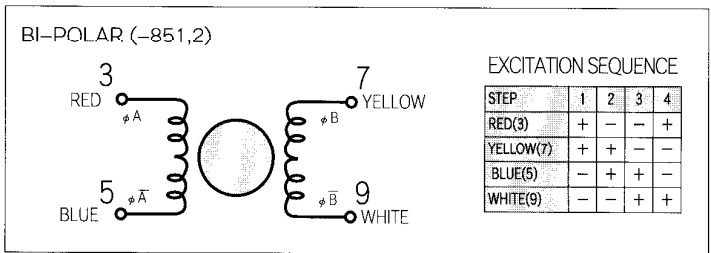
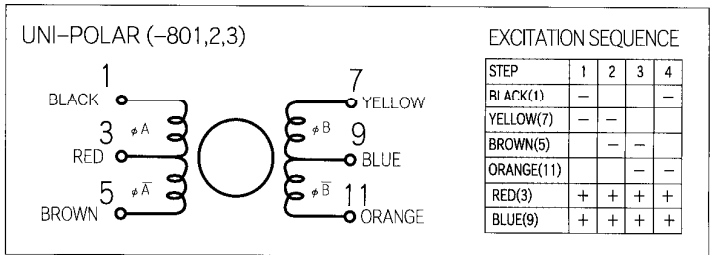
TORQUE CHARACTERISTICS vs. PULSIF RATE
UNI-POLAR



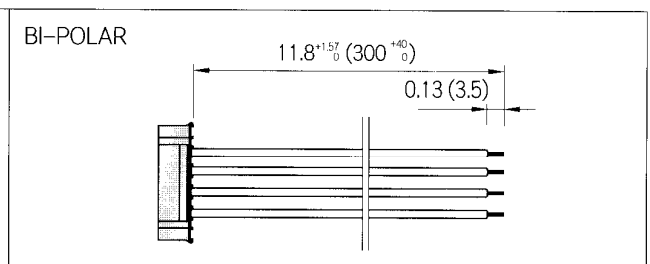
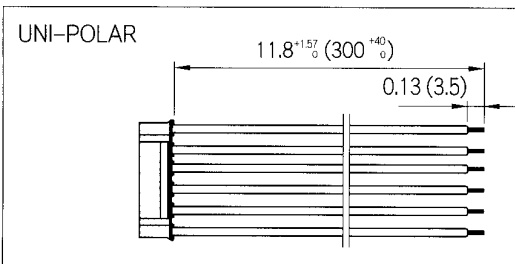
BI-POLAR



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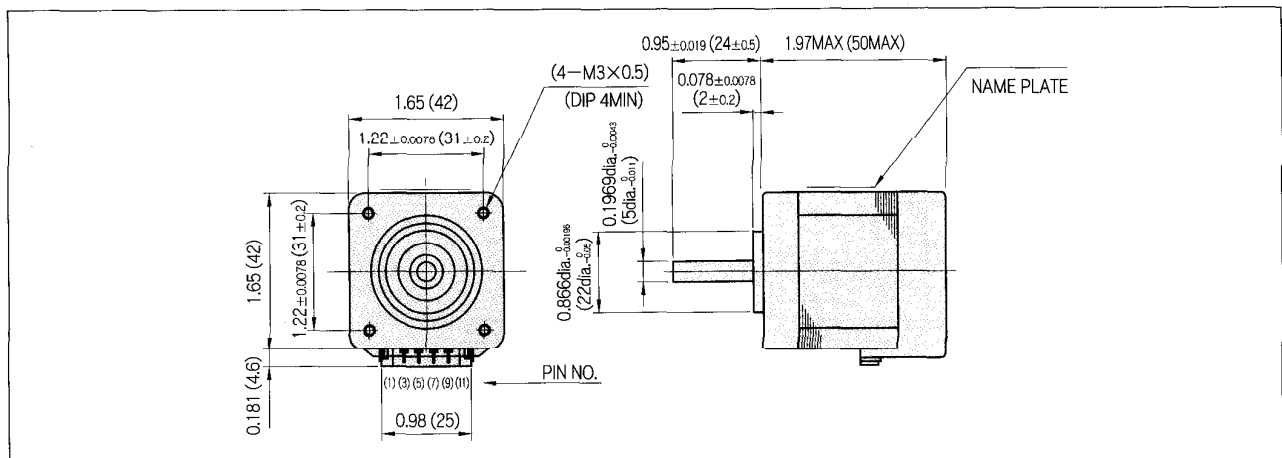
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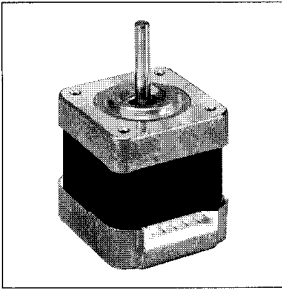
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		-801	-802	-851
DRIVE METHOD	-----	UNI-POLAR		BI-POLAR
NUMBER OF PHASES	-----	2		2
STEP ANGLE	deg./step	1.8		1.8
VOLTAGE	v	4.6	12	5.78
CURRENT	A/PHASE	1.0	0.4	1.2
WINDING RESISTANCE	Ω/PHASE	4.6	30	3.2
INDUCTANCE	mH/PHASE	35	18.6	4.9
HOLDING TORQUE	kgf · cm	3.2	3.2	4.0
	oz · in	44	44	56
DETENT TORQUE	gf · cm	200	200	200
	oz · in	2.8	2.8	2.8
ROTOR INERTIA	g · cm ²	76	76	76
	oz · in ²	0.42	0.42	0.42
WEIGHTS	g	360	360	360
	lb	0.79	0.79	0.79
INSULATION CLASS	-----	JIS Class E (120°C 248° F) (UL VALUE ; CLASS B-130°C 266° F)		
INSULATION RESISTANCE	-----	500VDC 100MΩ min.		
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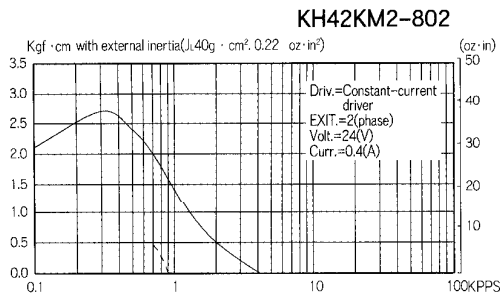
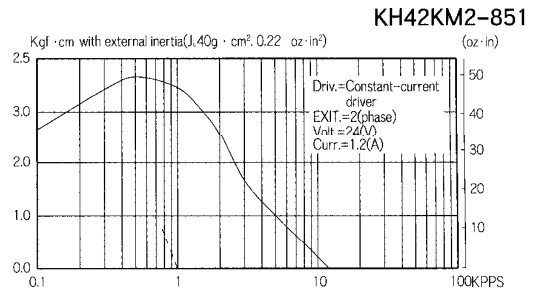
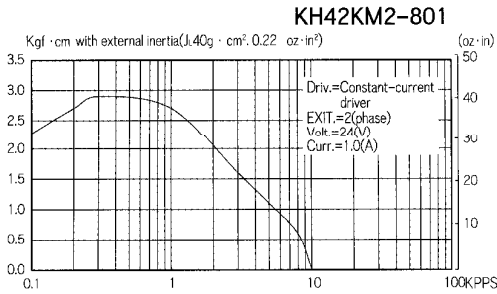
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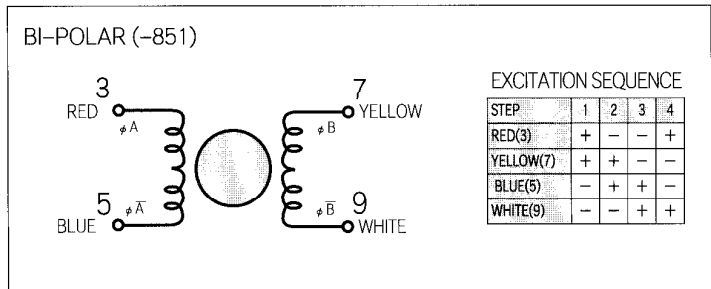
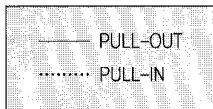
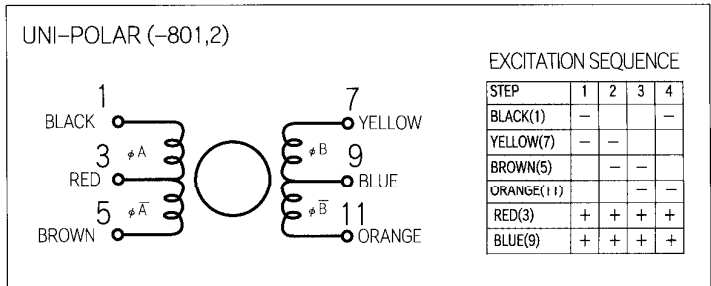
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