

KV42

1.8°/step

□42mm

NEMA17



Applications

OA, FA, Medical Devices
Money-handling &
Banking equipment

SINGLE SHAFT

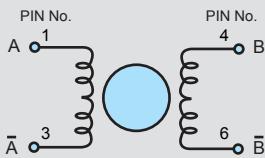
MODEL
KV4234-N2B801
KV4234-N2B802
KV4239-T2B801
KV4239-T2B802
KV4239-N2B801
KV4239-N2B802
KV4242-N2B801
KV4248-N2B801

*Low Vibration Type
*Low Vibration Type

OPTION

KV42LBS300

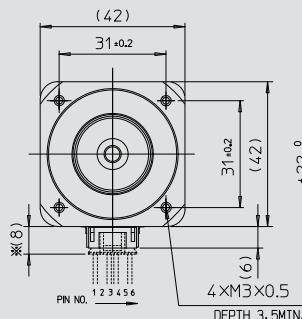
CONNECTION DIAGRAMS



PHR-6 (PIN NO.)	1	3	4	6
PHASE	A	Ā	B	Ā̄
COLOR OF LEAD	RED	BLUE	YELLOW	WHITE

DIMENSIONS

Unit = mm



The KV42 motor is supplied without a leadwire assembly.
This must be ordered as a separate part.

2-Phase Hybrid Stepping Motor KV42 Series

FEATURES

- High Speed · High Torque, Low Noise
- KH42-B900 Successor Model

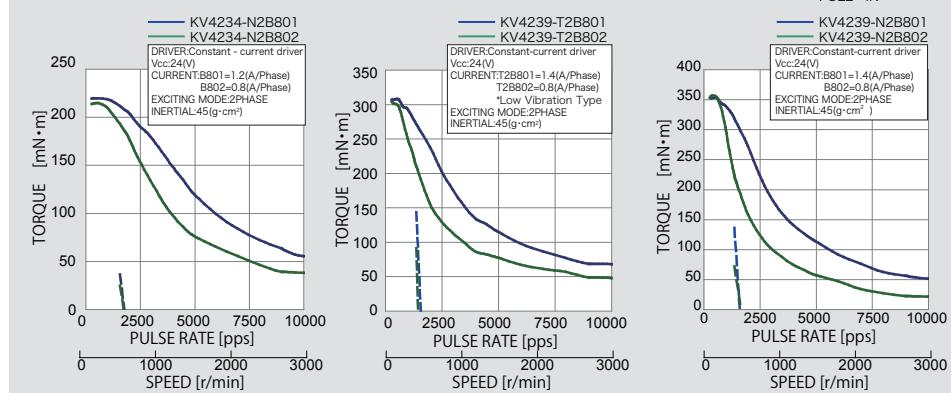
SPECIFICATIONS

STEP ANGLE ° /step	VOLTAGE V	CURRENT A/PHASE	WINDING RESISTANCE Ω/PHASE	INDUCTANCE mH/PHASE	HOLDING TORQUE mN · m	ROTOR INERTIA g · cm²	MODEL
1.8	2.76	1.2	2.3	3.6	260	42	KV4234-N2B801
1.8	4.00	0.8	5.0	7.5	260	42	KV4234-N2B802
1.8	2.94	1.4	2.1	4.5	300	59	KV4239-T2B801
1.8	4.88	0.8	6.1	14.0	300	59	KV4239-T2B802
1.8	2.94	1.4	2.1	4.1	370	59	KV4239-N2B801
1.8	4.88	0.8	6.1	14.0	370	59	KV4239-N2B802
1.8	3.72	1.2	3.1	5.0	420	69	KV4242-N2B801
1.8	3.90	1.3	3.0	6.1	530	79	KV4248-N2B801

GENERAL SPECIFICATIONS

INSULATION RESISTANCE	500V DC	100MΩ min.(at normal temp.& humidity,between lead and case)
DIELECTRIC STRENGTH	500V AC	50Hz 1min.(at normal temp.& humidity,between lead and case)
AMBIENT TEMP. AND HUMIDITY		-10°C~+50°C, 5%~95%RH(noncondensing)
STORAGE TEMP. AND HUMIDITY		-20°C~+70°C, 5%~95%RH(noncondensing)
TEMPERATURE. RISE		80K max (By resistance method)
POSITION ACCURACY		±10%

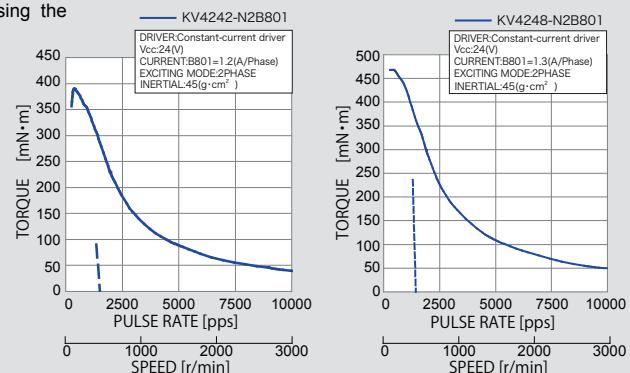
SPEED-TORQUE CHARACTERISTICS



CW viewed from rotor shaft when using the following sequence diagram.

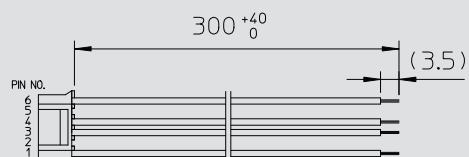
EXCITATION SEQUENCE

PHASE	1	2	3	4
A	-	+	+	-
B	-	-	+	+
Ā	+	-	-	+
Ā̄	+	+	-	-



OPTION (Leadwire Assembly)

MODEL : KV42LBS300



CONNECTOR SPECIFICATIONS

Maker	JST
Applicable Housing	PHR-6
Applicable Terminal	SPH-002T-P0.5S
Lead Wire	UL3266 AWG26