2-Phase Hybrid Stepping Motor
KV42 Series

KV42

4.09°/step

□42mm NEMA17

Uni-Polar

■Applications

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

SINGLE SHAFT

MODEL
KV4234-N4U801
KV4239-T4U801
KV4239-N4U801
KV4242-N4U801
KV4248-N4U801

*Low Vibration Type

OPTION

KV42LUS300

■FEATURES

- High Speed・High Torque,
- KH42-B900 Successor Model

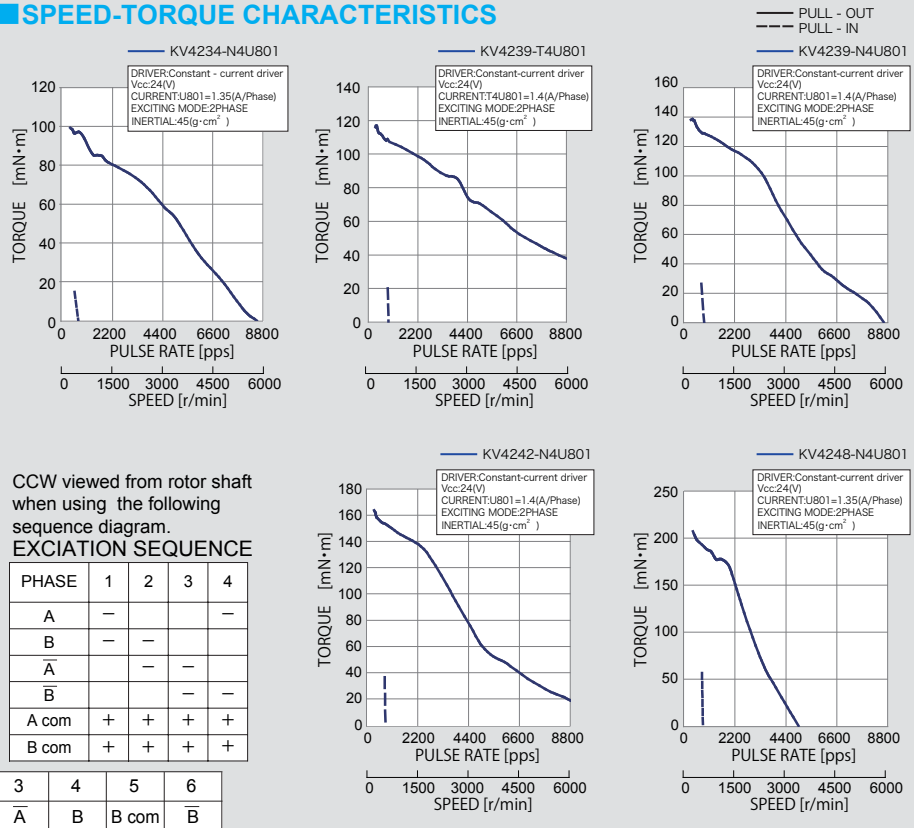
■SPECIFICATIONS

STEP ANGLE °/step	VOLTAGE V	CURRENT A/PHASE	WINDING RESISTANCE Ω/PHASE	INDUCTANCE mH/PHASE	HOLDING TORQUE mN・m	ROTOR INERTIA g・cm²	MODEL
4.09	2.57	1.35	1.9	1.4	150	42	KV4234-N4U801
4.09	3.08	1.4	2.2	2.1	160	59	KV4239-T4U801
4.09	3.08	1.4	2.2	1.9	200	59	KV4239-N4U801
4.09	3.50	1.4	2.5	2.4	230	69	KV4242-N4U801
4.09	4.05	1.35	3.0	2.7	280	79	KV4248-N4U801

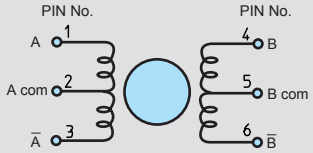
[GENERAL SPECIFICATIONS]

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℃～+50℃、5%～95%RH(noncondensing)
STORAGE TEMP.AND HUMIDITY	-20℃～+70℃、5%～95%RH(noncondensing)
TEMPERATURE. RISE	80K max(By resistance method)
POSITION ACCURACY	±10%

■SPEED-TORQUE CHARACTERISTICS



■CONNECTION DIAGRAMS



Warning
Unlike other series, this series will rotate in reverse.

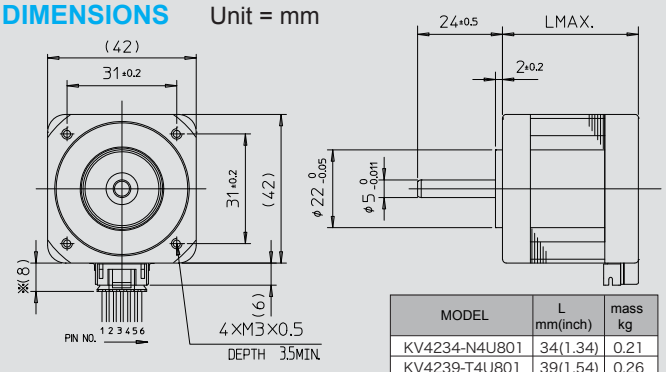
CCW viewed from rotor shaft when using the following sequence diagram.

EXCIATION SEQUENCE

PHASE	1	2	3	4
A	−			−
B	−	−		
Ā		−	−	
B̄			−	−
A com	+	+	+	+
B com	+	+	+	+

PHR-6(PIN NO.)	1	2	3	4	5	6
PHASE	A	A com	Ā	B	B com	B̄
COLOR OF LEAD	BLACK	RED	BROWN	YELLOW	BLUE	ORANGE

■DIMENSIONS Unit = mm

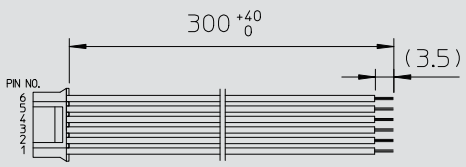


MODEL	L mm(inch)	mass kg
KV4234-N4U801	34(1.34)	0.21
KV4239-T4U801	39(1.54)	0.26
KV4239-N4U801	39(1.54)	0.26
KV4242-N4U801	42(1.65)	0.32
KV4248-N4U801	48(1.89)	0.37

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

■OPTION (Leadwire Assembly)

MODEL:KV42LUS300



■CONNECTOR SPECIFICATIONS

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