

KV42

4.09°/step

□42mm NEMA17



Applications

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

SINGLE SHAFT

MODEL
KV4234-N4B801
KV4239-N4B801
KV4248-N4B801

OPTION

KV42LBS300

FEATURES

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

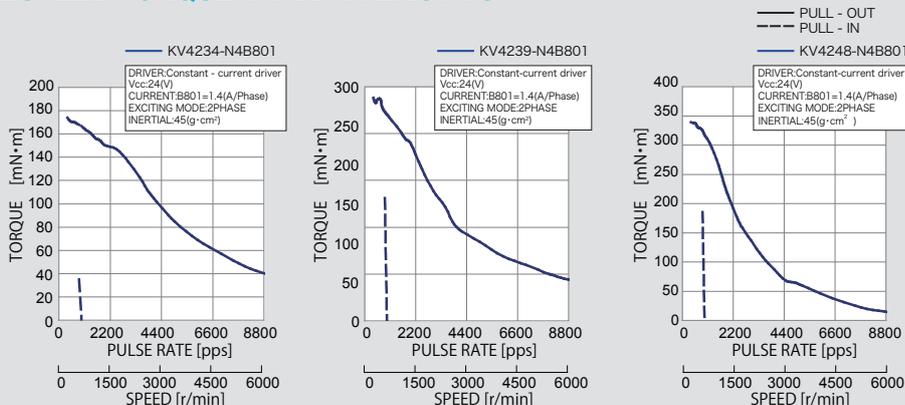
SPECIFICATIONS

STEP ANGLE ° /step	VOLTAGE V	CURRENT A/PHASE	WINDING RESISTANCE Ω/PHASE	INDUCTANCE mH/PHASE	HOLDING TORQUE mN · m	ROTOR INERTIA g · cm ²	MODEL
4.09	2.52	1.4	1.8	2.3	200	42	KV4234-N4B801
4.09	2.94	1.4	2.1	3.5	260	59	KV4239-N4B801
4.09	3.78	1.4	2.7	4.1	390	79	KV4248-N4B801

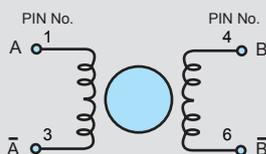
GENERAL SPECIFICATIONS

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



CONNECTION DIAGRAMS



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

Warning

Unlike other series, this series will rotate in reverse.

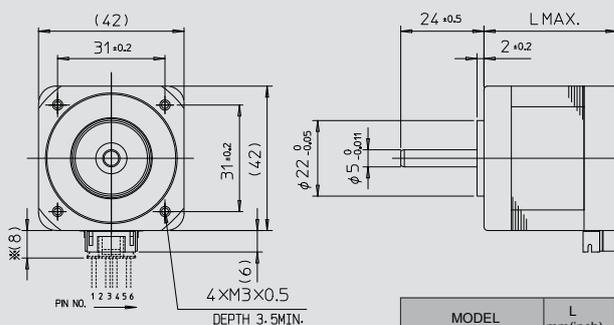
CCW viewed from rotor shaft when using the following sequence diagram.

EXCITATION SEQUENCE

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

DIMENSIONS

Unit = mm

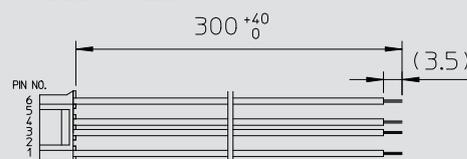


MODEL	L mm(inch)	mass kg
KV4234-N4B801	34(1.34)	0.21
KV4239-N4B801	39(1.54)	0.26
KV4248-N4B801	48(1.89)	0.37

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

OPTION (Leadwire Assembly)

MODEL: KV42LBS300



CONNECTOR SPECIFICATIONS

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