

KH86

New

1.8°/step

□ 86mm



Application

- Large-size printer
- Industrial sewing machine
- Food packaging machine
- Weaving machine

SINGLE SHAFT

MODEL
KH86QM2-951
KH86QM2-952
KH86RM2-951
KH86RM2-952
KH86TM2-951
KH86TM2-952
KH86WM2-951
KH86WM2-952

DOUBLE SHAFT

MODEL
KH86QM2-961
KH86QM2-962
KH86RM2-961
KH86RM2-962
KH86TM2-961
KH86TM2-962
KH86WM2-961
KH86WM2-962

FEATURES

- Non-rare earth magnet models
- High Torque

SPECIFICATIONS

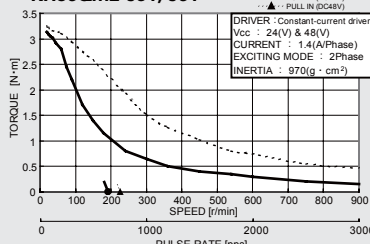
STEP ANGLE °/step	VOLTAGE V	CURRENT A/PHASE	WINDING RESISTANCE Ω/PHASE	INDUCTANCE mH/PHASE	HOLDING TORQUE N·m	kgf·cm	ROTOR INERTIA g·cm ²	MODEL	
								SINGLE SHAFT	DOUBLE SHAFT
1.8	5.04	1.4	3.6	23	3.3	33.7	1800	KH86QM2-951	KH86QM2-961
1.8	2.99	3.18	0.94	4.5	3.3	33.7	1800	KH86QM2-952	KH86QM2-962
1.8	5.60	1.4	4.2	31	4.0	40.8	2300	KH86RM2-951	KH86RM2-961
1.8	3.12	3.18	1.0	5.9	4.0	40.8	2300	KH86RM2-952	KH86RM2-962
1.8	7.84	1.4	5.6	47.5	6.4	65.3	3700	KH86TM2-951	KH86TM2-961
1.8	4.20	3.18	1.32	9.1	6.4	65.3	3700	KH86TM2-952	KH86TM2-962
1.8	10.64	1.4	7.6	68	9.3	94.8	5500	KH86WM2-951	KH86WM2-961
1.8	5.32	2.8	1.9	14	9.3	94.8	5500	KH86WM2-952	KH86WM2-962

GENERAL SPECIFICATIONS

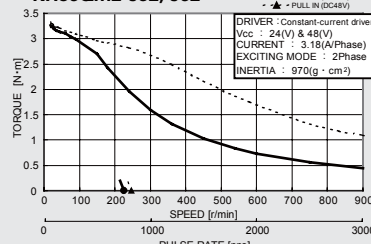
INSULATION CLASS	Class B equivalent	
INSULATION RESISTANCE	500V DC	100MΩ min. (at normal temp. & humidity, between lead and case)
DIELECTRIC STRENGTH	500V AC 50Hz 1min.	
AMBIENT TEMP. AND HUMIDITY	-10°C ~ +50°C, 5% ~ 95%RH (noncondensing)	
STORAGE TEMP. AND HUMIDITY	-20°C ~ +70°C, 5% ~ 95%RH (noncondensing)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

SPEED-TORQUE CHARACTERISTICS

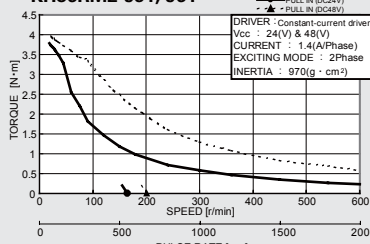
KH86QM2-951, 961



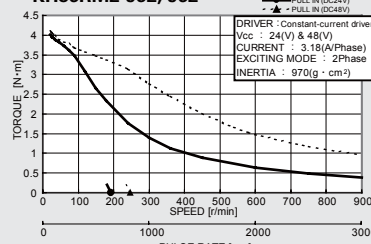
KH86QM2-952, 962



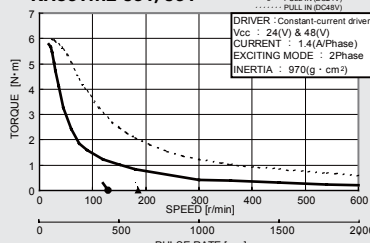
KH86RM2-951, 961



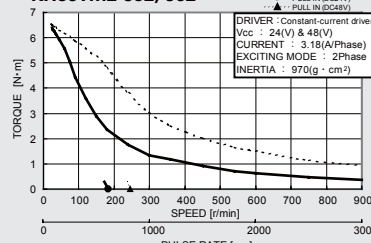
KH86RM2-952, 962



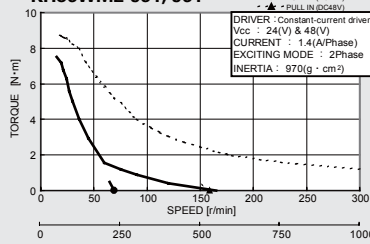
KH86TM2-951, 961



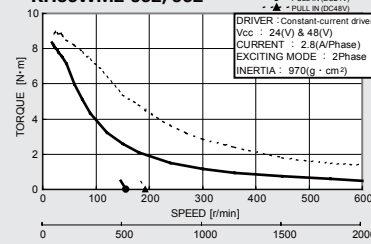
KH86TM2-952, 962



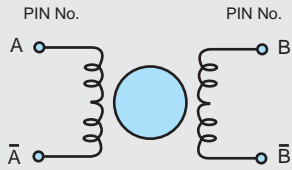
KH86WM2-951, 961



KH86WM2-952, 962



CONNECTION DIAGRAMS



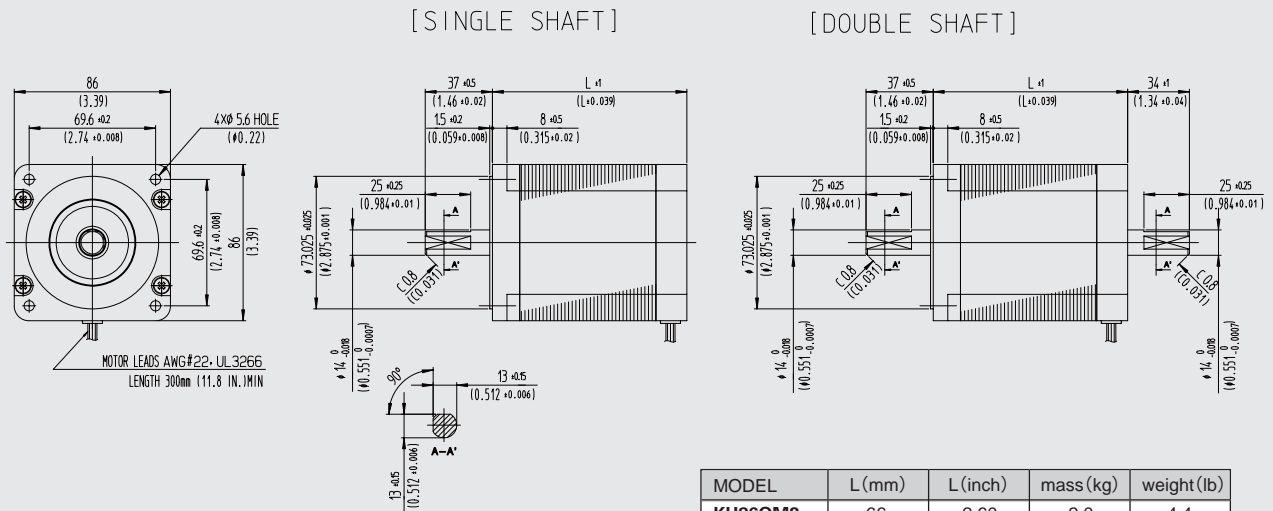
PHASE	A	\bar{A}	B	\bar{B}
COLOR OF LEAD	RED	BLUE	YELLOW	WHITE

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

EXCITATION SEQUENCE

PHASE	1	2	3	4
A	-	+	+	-
B	-	-	+	+
\bar{A}	+	-	-	+
\bar{B}	+	+	-	-

DIMENSIONS Unit = mm(inch)



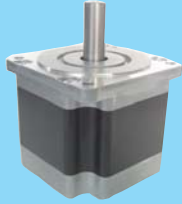
MODEL	L (mm)	L (inch)	mass (kg)	weight (lb)
KH86QM2	66	2.60	2.0	4.4
KH86RM2	76	2.99	2.5	5.5
KH86TM2	96	3.78	3.0	6.6
KH86WM2	127	5.00	4.5	9.9

KH86

New

1.8°/step

□ 86mm



Application

- Large-size printer
- Industrial sewing machine
- Food packaging machine
- Weaving machine

SINGLE SHAFT

MODEL
KH86QM2-901
KH86QM2-902
KH86RM2-901
KH86RM2-902
KH86TM2-901
KH86TM2-902
KH86WM2-901
KH86WM2-902

DOUBLE SHAFT

MODEL
KH86QM2-911
KH86QM2-912
KH86RM2-911
KH86RM2-912
KH86TM2-911
KH86TM2-912
KH86WM2-911
KH86WM2-912

FEATURES

- Non-rare earth magnet models
- High Torque

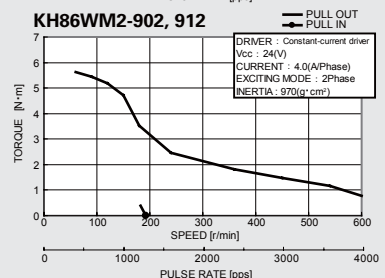
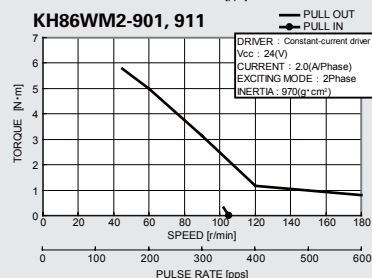
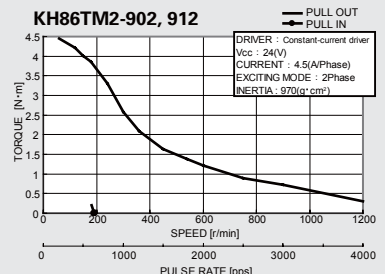
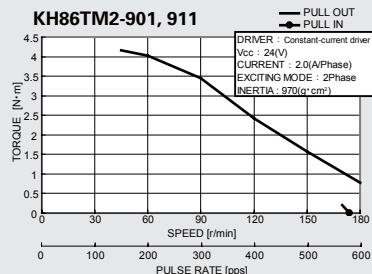
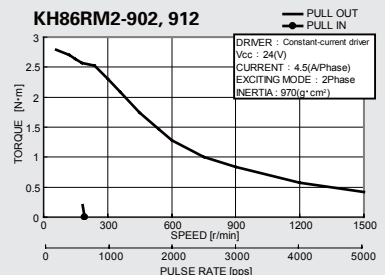
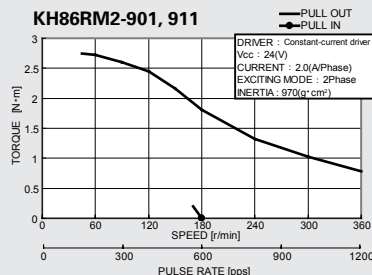
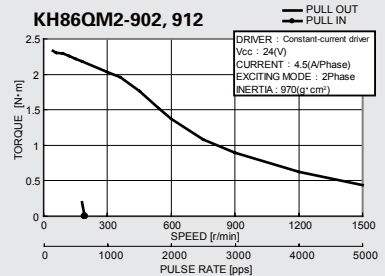
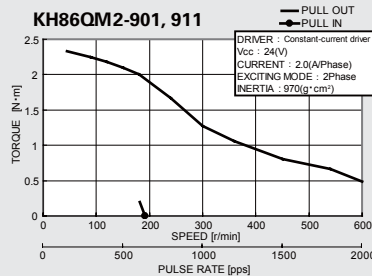
SPECIFICATIONS

STEP ANGLE deg./step	VOLTAGE V	CURRENT A/PHASE	WINDING RESISTANCE Ω/PHASE	INDUCTANCE mH/PHASE	HOLDING TORQUE		ROTOR INERTIA g·cm ²	MODEL	
					N·m	kgf·cm		SINGLE SHAFT	DOUBLE SHAFT
1.8	3.60	2.0	1.8	5.6	2.5	25.5	1800	KH86QM2-901	KH86QM2-911
1.8	2.12	4.5	0.47	1.2	2.5	25.5	1800	KH86QM2-902	KH86QM2-912
1.8	4.00	2.0	2.1	7.5	3.0	30.6	2300	KH86RM2-901	KH86RM2-911
1.8	2.20	4.5	0.5	1.5	3.0	30.6	2300	KH86RM2-902	KH86RM2-912
1.8	5.60	2.0	2.8	11.5	4.7	47.9	3700	KH86TM2-901	KH86TM2-911
1.8	2.97	4.5	0.66	2.3	4.7	47.9	3700	KH86TM2-902	KH86TM2-912
1.8	7.60	2.0	3.8	17.0	6.7	68.3	5500	KH86WM2-901	KH86WM2-911
1.8	3.80	4.0	0.95	3.6	6.7	68.3	5500	KH86WM2-902	KH86WM2-912

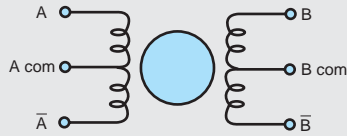
[GENERAL SPECIFICATIONS]

INSULATION CLASS	Class B equivalent
INSULATION RESISTANCE	500V DC 100MΩ min. (at normal temp.& humidity,between lead and case)
DIELECTRIC STRENGTH	500V AC 50Hz 1min.
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



PHASE	A	A com	Ā	B	B com	B̄
COLOR OF LEAD	BLACK	RED	BROWN	YELLOW	BLUE	ORANGE

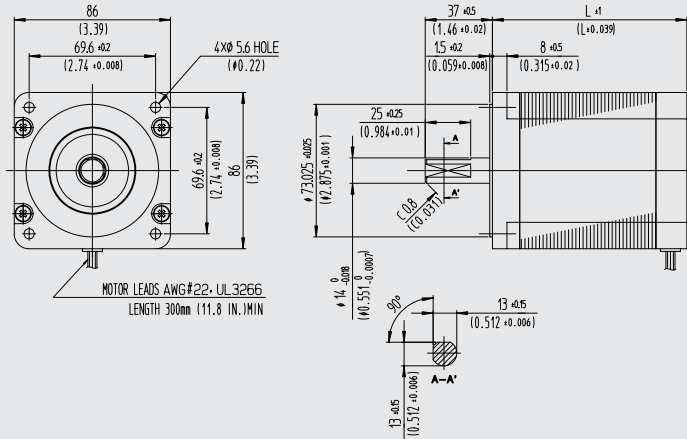
CW viewed from rotor shaft when using the following sequence diagram.

EXCITATION SEQUENCE

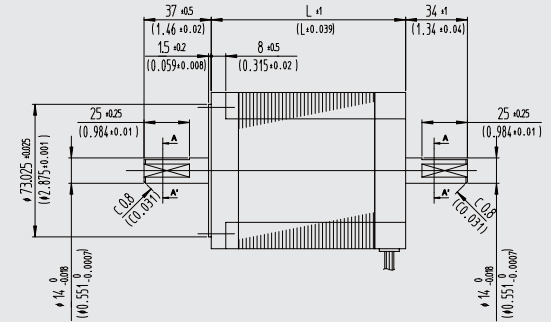
PHASE	1	2	3	4
A	-			-
B	-	-		
Ā		-	-	
B̄			-	-
A com	+	+	+	+
B com	+	+	+	+

DIMENSIONS Unit = mm(inch)

[SINGLE SHAFT]



[DOUBLE SHAFT]



MODEL	L (mm)	L (inch)	mass (kg)	weight (lb)
KH86QM2	66	2.60	2.0	4.4
KH86RM2	76	2.99	2.5	5.5
KH86TM2	96	3.78	3.0	6.6
KH86WM2	127	5.00	4.5	9.9