3-Phase Hybrid Stepping Motor 1.2°

KT86 series *TRISYN*

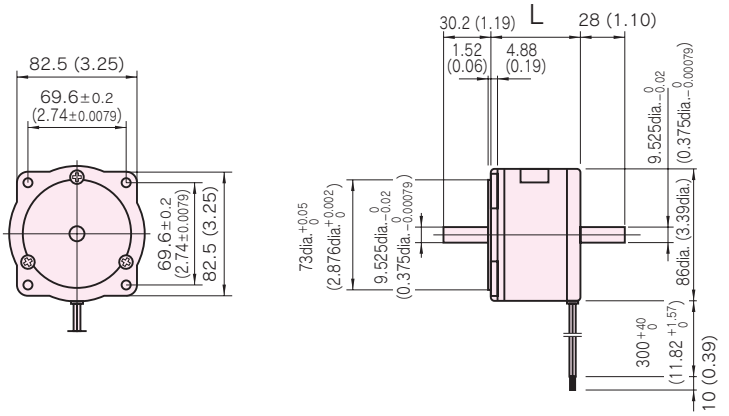
HIGH TORQUE, SILENT ROTATION

■ STANDARD SPECIFICATIONS

M O D E L	UNIT	KT86LM1 -551(SINGLE SHAFT) -561(DOUBLE SHAFT)	KT86SM1 -551(SINGLE SHAFT) -561(DOUBLE SHAFT)
DRIVE METHOD	————	BI-POLAR	
NUMBER OF PHASES	————	3	
STEP ANGLE	deg./step	1.2	
VOLTAGE	V	5.4	7.0
CURRENT	A/2-PHASE	3	2.5
WINDING RESISTANCE	A/2-PHASE	1.8	2.8
INDUCTANCE	mH/2-PHASE	18	36.6
HOLDING TORQUE	N · m	2.0	4.0
	oz · in	278	556
DETENT TORQUE	N · m	0.1	0.2
	oz · in	13.9	27.8
ROTOR INERTIA	g · cm²	670	1340
	oz · in²	3.67	7.34
WEIGHTS	kg	1.6	2.1
	lb	3.52	4.63
INSULATION CLASS	————	JIS Class E (120℃ 248° F) (UL VALUE:CLASS B 130℃ 266° F)	
INSULATION RESISTANCE	————	500VDC 100MΩmin.	
DIELECTRIC STRENGTH	————	500VAC 50HZ 1min.	
OPERATING TEMP. RANGE	℃	0 to 50	
ALLOWABLE TEMP. RISE	K	70	

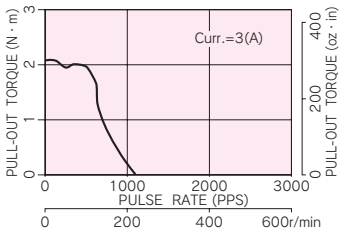
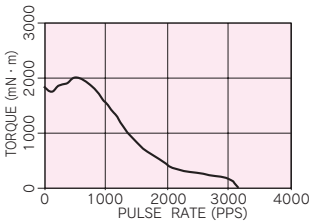
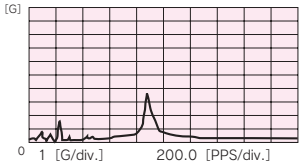
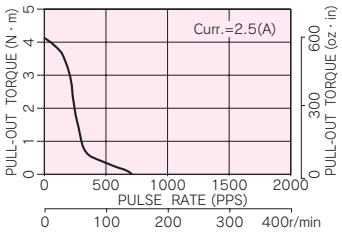
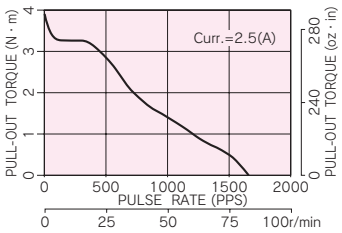
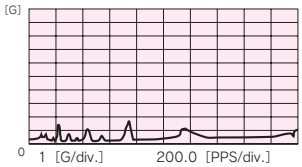
KT86LM1/SM1

■ DIMENSIONS unit = mm (inch)



MODEL	L	
	mm	inch
KT86LM1	61	2.40
KT86SM1	95	3.74

KT86LM1/SM1

TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V **KT86LM1**	
TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 divisions **KT86LM1**	
VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN) **KT86LM1**	
TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V **KT86SM1**	
TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 divisions **KT86SM1**	
VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN) **KT86SM1**	

■ Connection Diagram