

# 3-Phase Hybrid Stepping Motor

**1.2°**

# KT42 series TRISYN

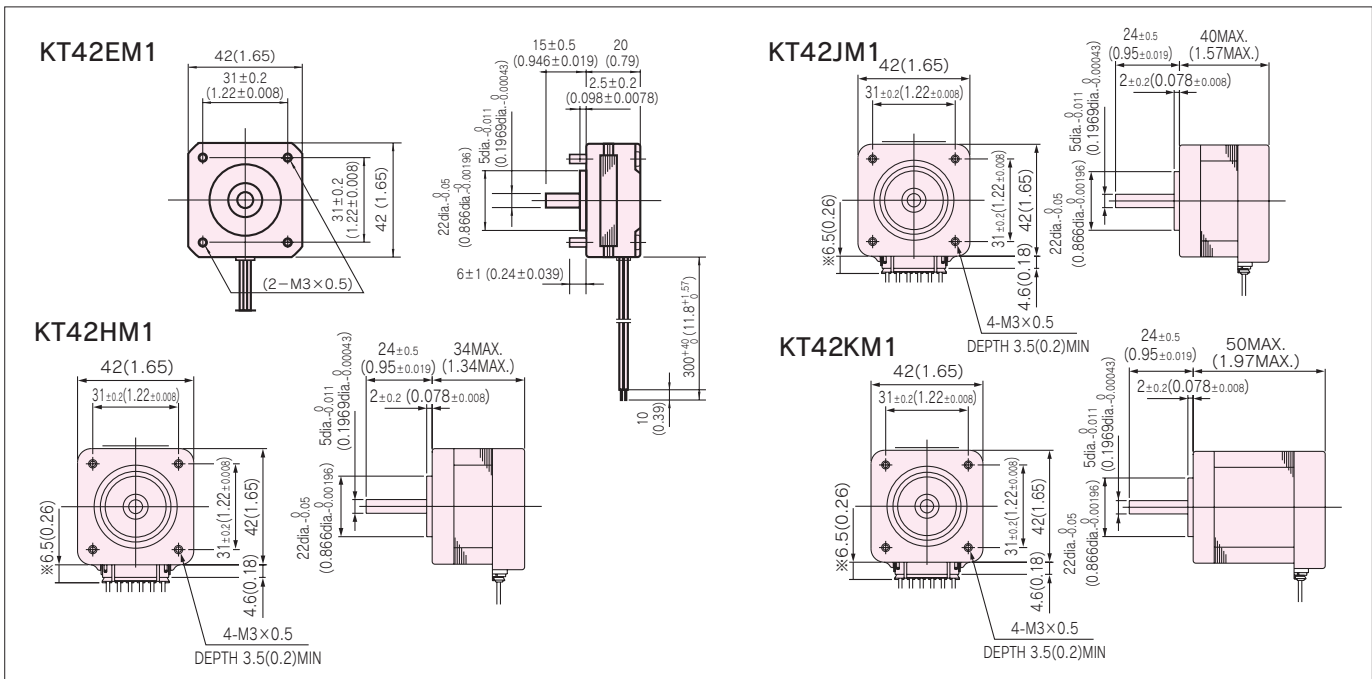
**HIGH TORQUE, SILENT ROTATION**

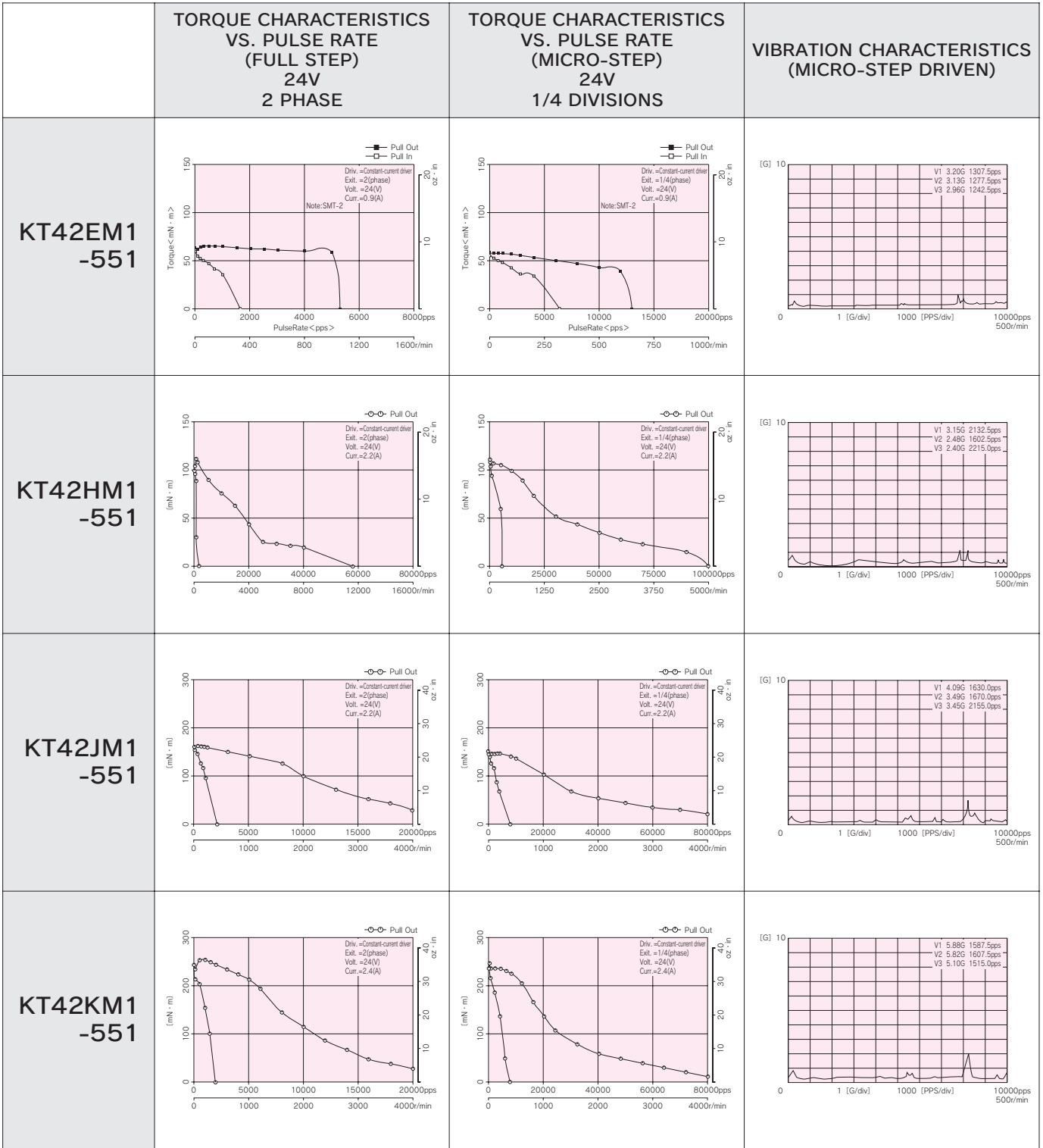
## STANDARD SPECIFICATIONS

MODEL	UNIT	KT42EM1	KT42HM1	KT42JM1	KT42KM1
		-551	-551	-551	-551
DRIVE METHOD	————	BI-POLAR			
NUMBER OF PHASES	————	3			
STEP ANGLE	deg./step	1.2			
VOLTAGE	V	5.3	2.64	2.88	3.6
CURRENT	A/2-PHASE	0.9	2.4	2.4	2.4
WINDING RESISTANCE	Ω/2-PHASE	5.9	1.1	1.2	1.5
INDUCTANCE	mH/2-PHASE	2.6	0.5	0.8	1.0
HOLDING TORQUE	mN · m	70	140	210	280
	oz · in	9.9	19.8	29.7	39.6
DETENT TORQUE	mN · m	10	10	12	16
	oz · in	1.4	1.4	1.7	2.3
ROTOR INERTIA	g · cm <sup>2</sup>	20	42	60	85
	oz · in <sup>2</sup>	0.11	0.23	0.33	0.46
WEIGHTS	g	140	210	310	360
	lb	0.31	0.46	0.68	0.79
INSULATION CLASS	————	JIS Class E (120°C 248° F)(UL VALUE:CLASS B 130°C 266° F)			
INSULATION RESISTANCE	————	500VDC 100MΩmin.			
DIELECTRIC STRENGTH	————	500VAC 50HZ 1 min.			
OPERATING TEMP. RANGE	°C	-10 to 50			
ALLOWABLE TEMP. RISE	K	70			



## DIMENSIONS unit = mm (inch)





■ CONNECTION CABLE TO MOTOR unit = mm (inch) (Except for KT42EM1-551)

