

3-Phase Hybrid Stepping Motor

1.2°

KT35 series TRISYN

colortechnik
Antriebstechnik GmbH

HIGH TORQUE, SILENT ROTATION

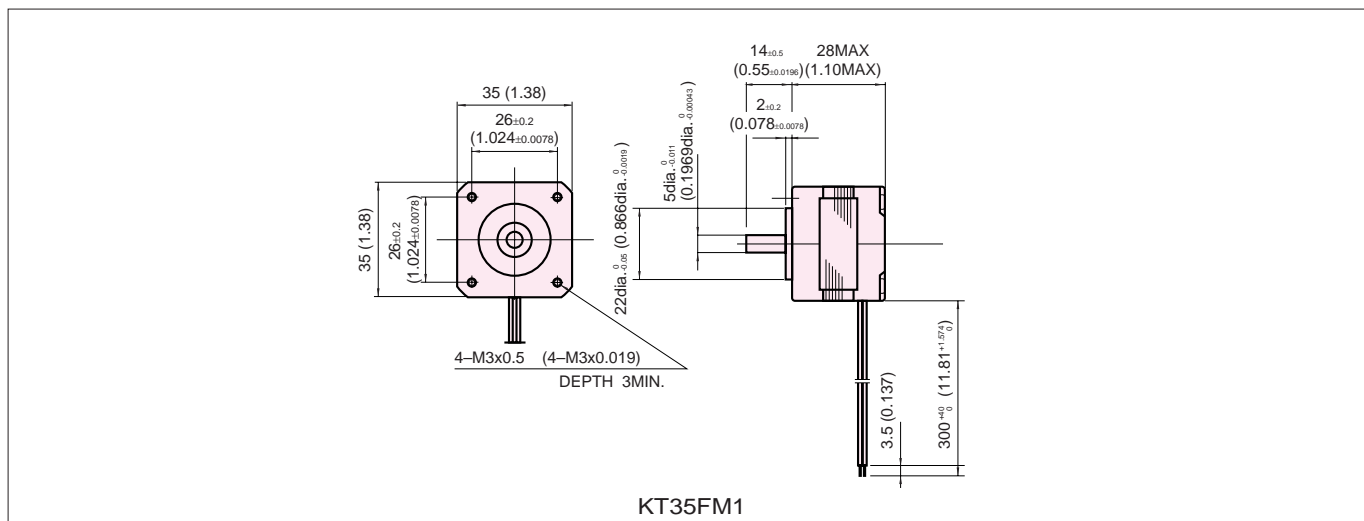
STANDARD SPECIFICATIONS

MODEL	UNIT	KT35FM1
		-552
DRIVE METHOD	————	BI-POLAR
NUMBER OF PHASES	————	3
STEP ANGLE	deg./step	1.2
VOLTAGE	V	11.7
CURRENT	A/2-PHASE	0.3
WINDING RESISTANCE	Ω/2-PHASE	39
INDUCTANCE	mH/2-PHASE	26
HOLDING TORQUE	mN • m	5.9
	oz • in	8.3
DETENT TORQUE	mN • m	9.8
	oz • in	1.4
ROTOR INERTIA	g • cm ²	8
	oz • in ²	0.044
WEIGHTS	g	110
	lb	0.24
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 1min.
OPERATING TEMP. RANGE	°C	0 to 50
ALLOWABLE TEMP. RISE	deg.	70



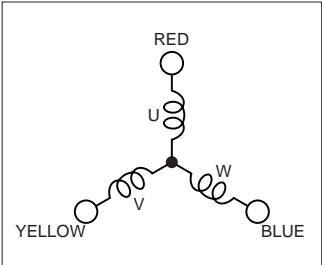
KT35FM1

DIMENSIONS unit = mm (inch)



<p>TORQUE CHARACTERISTICS vs. PULSE RATE (FULL STEP) 24V 2 PHASE</p>	
<p>TORQUE CHARACTERISTICS vs. PULSE RATE (MICRO-STEP) 24V 1/8 DIVISIONS</p>	
<p>VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)</p>	

■ Connection Diagram



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3-Phase Hybrid Stepping Motor

0.6°

KT42 series TRISYN



HIGH TORQUE, SILENT ROTATION

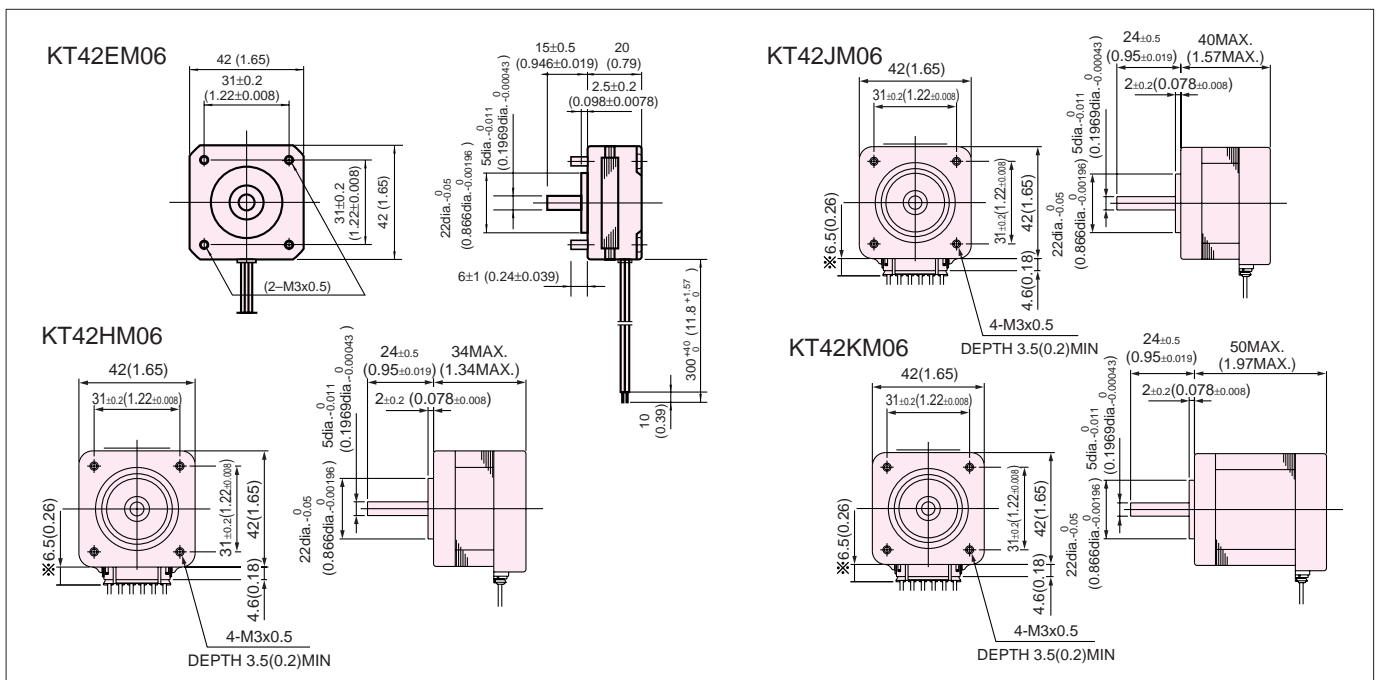
STANDARD SPECIFICATIONS

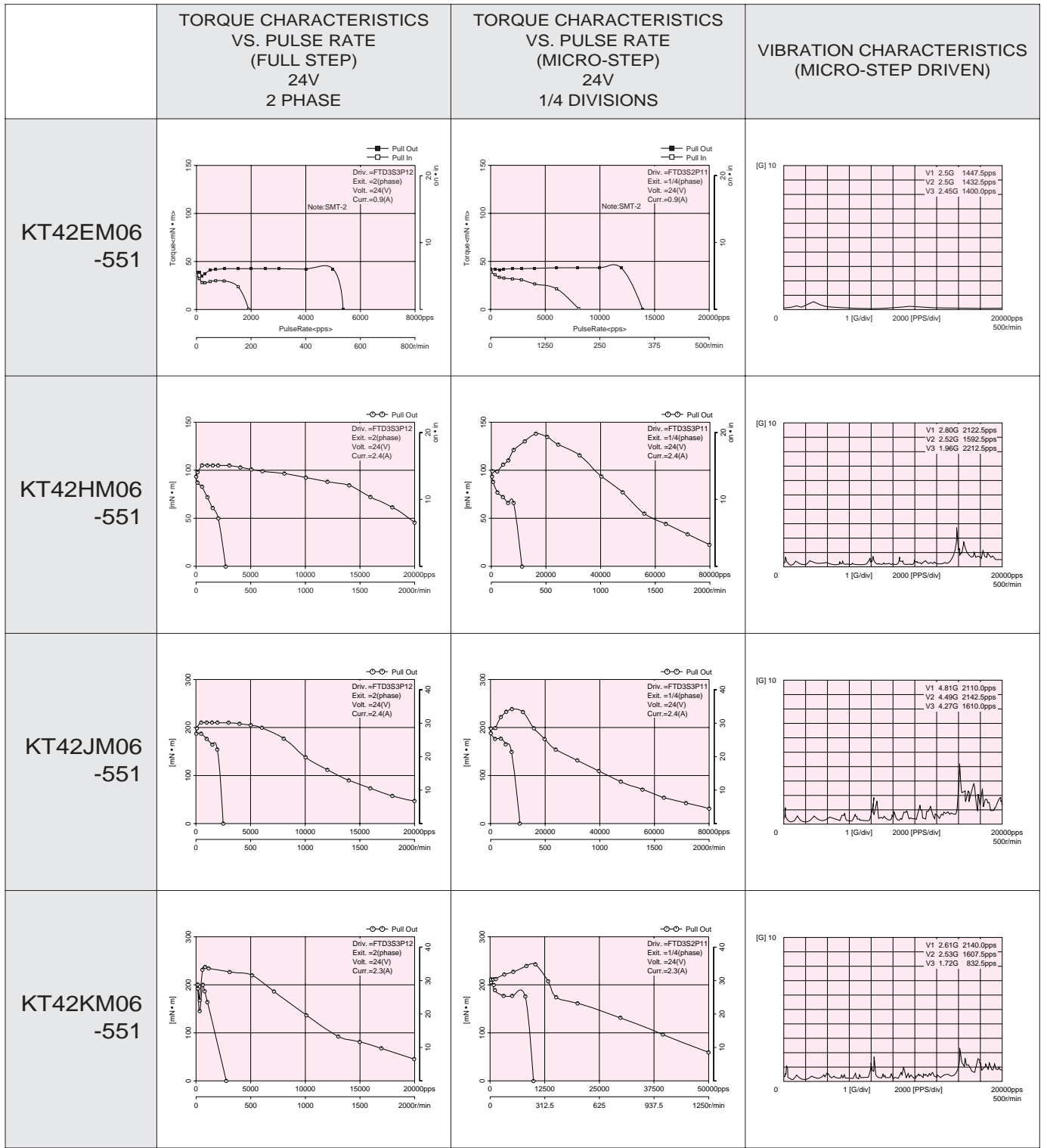
MODEL	UNIT	KT42EM06	KT42HM06	KT42JM06	KT42KM06
		-551	-551	-551	-551
DRIVE METHOD	—	BI-POLAR			
NUMBER OF PHASES	—	3			
STEP ANGLE	deg./step	0.6			
VOLTAGE	V	5.3	2.88	3.12	4.6
CURRENT	A/2-PHASE	0.9	2.4	2.4	2.3
WINDING RESISTANCE	Ω/2-PHASE	5.9	1.2	1.3	2.0
INDUCTANCE	mH/2-PHASE	3.1	0.8	1.3	1.4
HOLDING TORQUE	mN • m	45	90	180	200
	oz • in	6.4	12.7	25.5	28.3
DETENT TORQUE	mN • m	10	6	8	9
	oz • in	1.4	0.8	1.1	1.3
ROTOR INERTIA	g • cm ²	20	42	60	85
	oz • in ²	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 1min.			
OPERATING TEMP. RANGE	°C	-10 to 50			
ALLOWABLE TEMP. RISE	deg.	70			



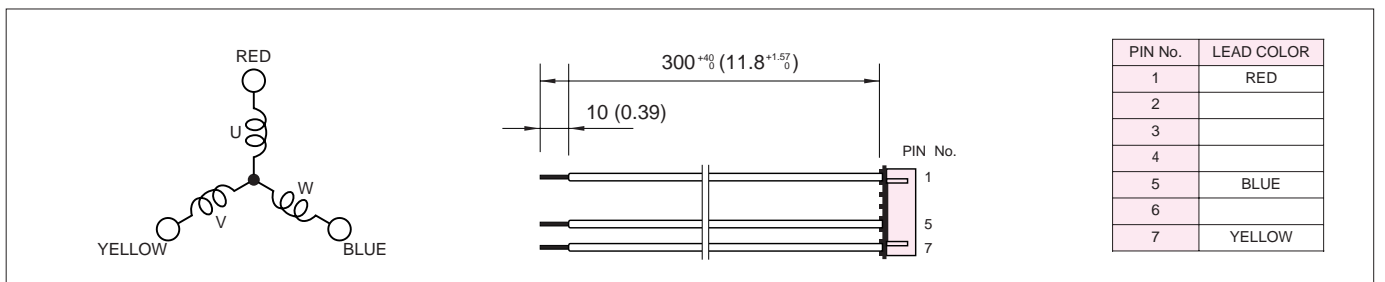
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DIMENSIONS unit = mm (inch)





■ CONNECTION CABLE TO MOTOR unit = mm (inch) (Except for KT42EM06-551)



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 ²	20	42	60	85
	oz • in ²	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 1min.			
OPERATING TEMP. RANGE	°C	-10 to 50			
ALLOWABLE TEMP. RISE	deg.	70			



KT42EM1

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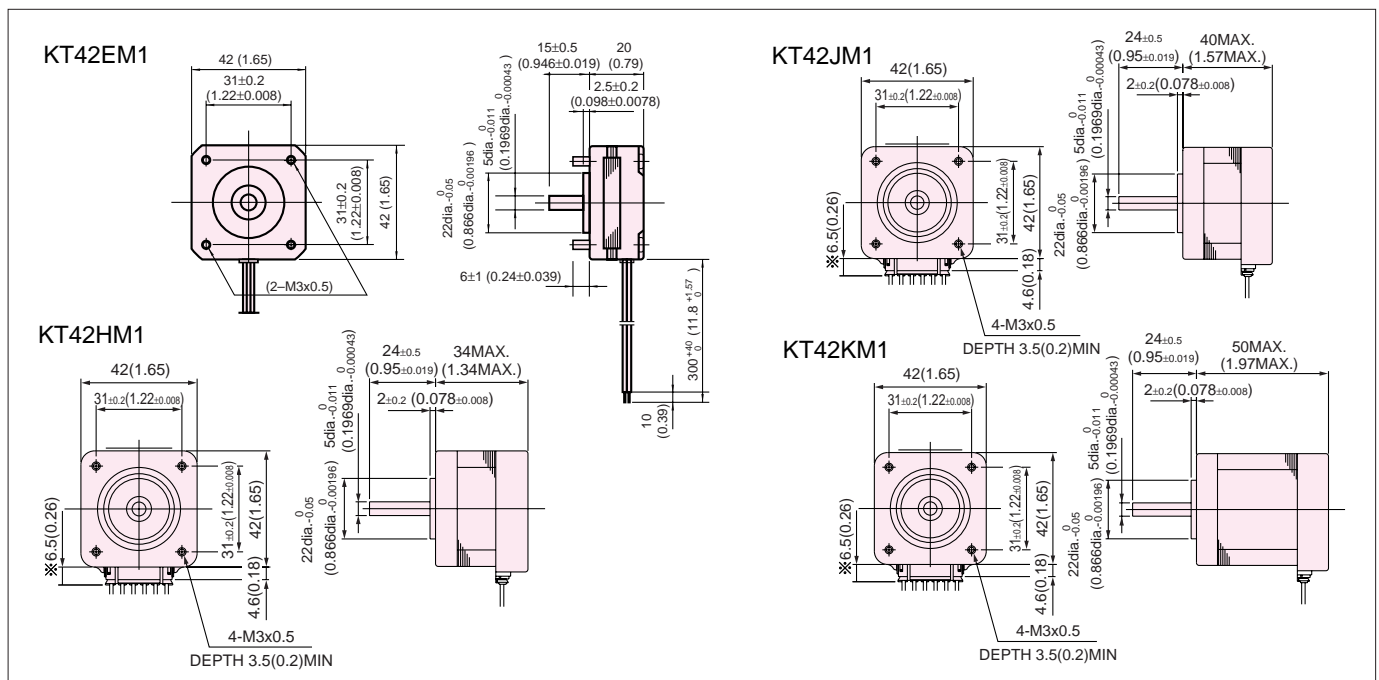
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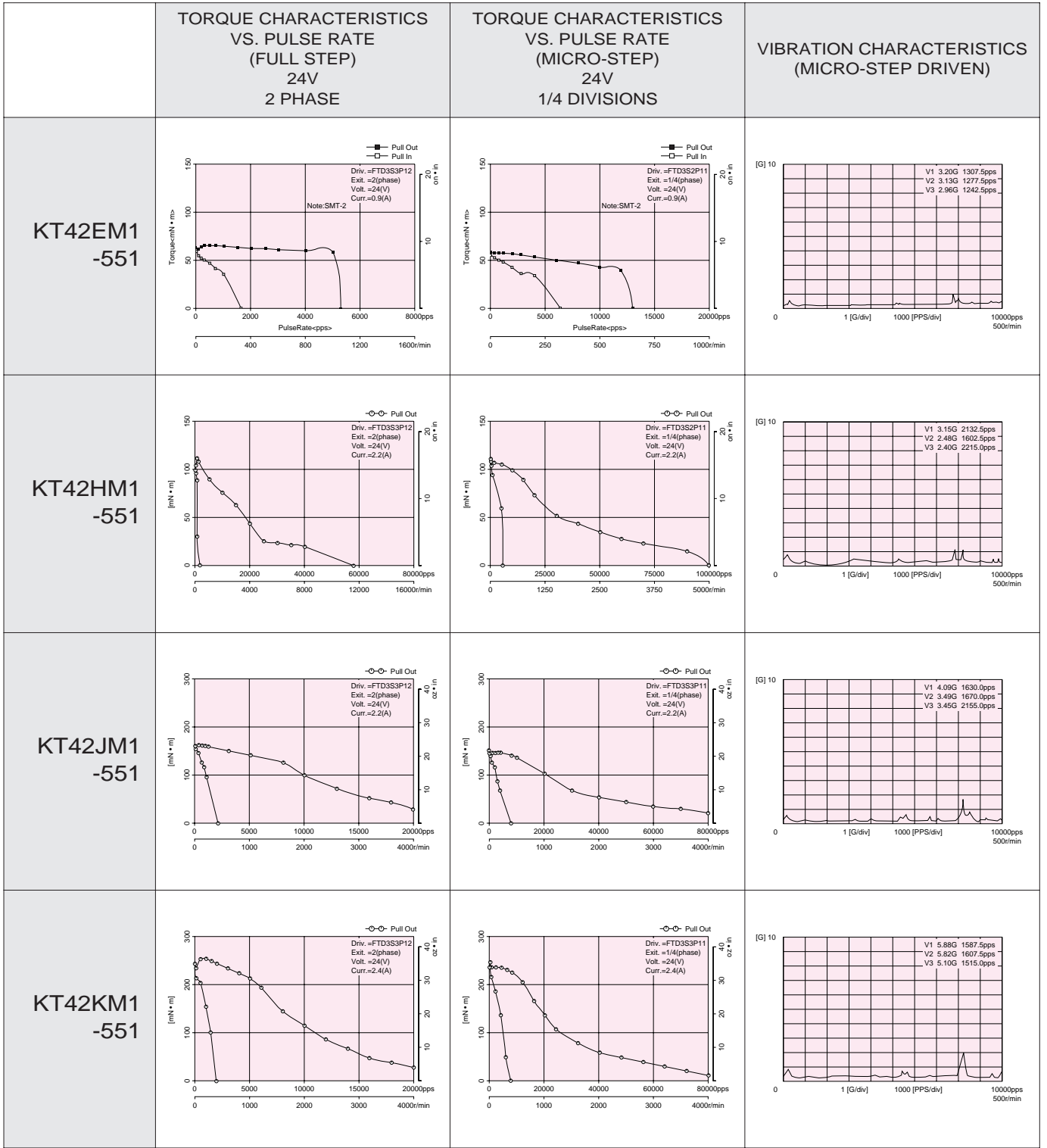
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DIMENSIONS unit = mm (inch)





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