3-Phase Hybrid Stepping Motor 1.2°

KT35 series *TRISYN*

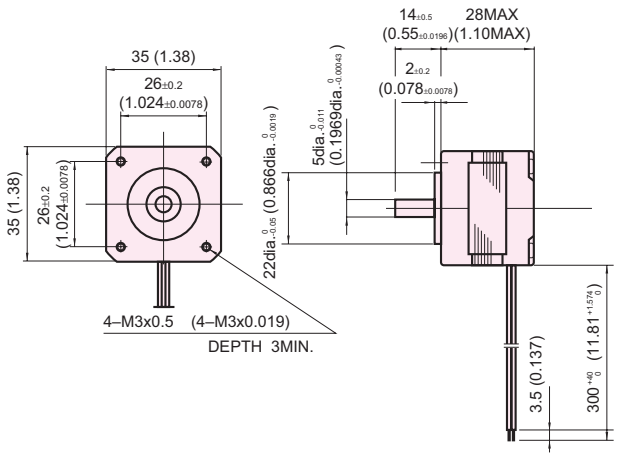
HIGH TORQUE, SILENT ROTATION

■ STANDARD SPECIFICATIONS

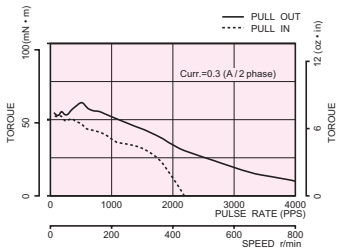
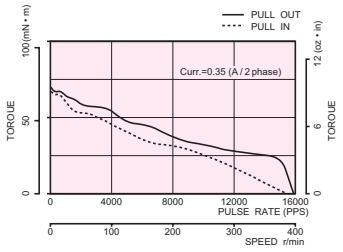
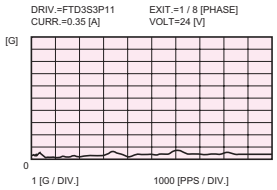
M O D E L	UNIT	KT35FM1
		-552
DRIVE METHOD	————	BI-POLAR
NUMBER OF PHASES	————	3
STEP ANGLE	deg./step	1.2
VOLTAGE	V	11.7
CURRENT	A/2-PHASE	0.3
WINDING RESISTANCE	Ω/2-PHASE	39
INDUCTANCE	mH/2-PHASE	26
HOLDING TORQUE	mN • m	5.9
	oz • in	8.3
DETENT TORQUE	mN • m	9.8
	oz • in	1.4
ROTOR INERTIA	g • cm²	8
	oz • in²	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

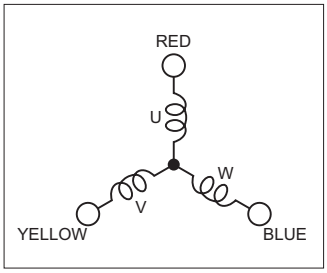
■ DIMENSIONS unit = mm (inch)



KT35FM1

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

■ Connection Diagram



3-Phase Hybrid Stepping Motor 0.6°

KT42 series *TRISYN*

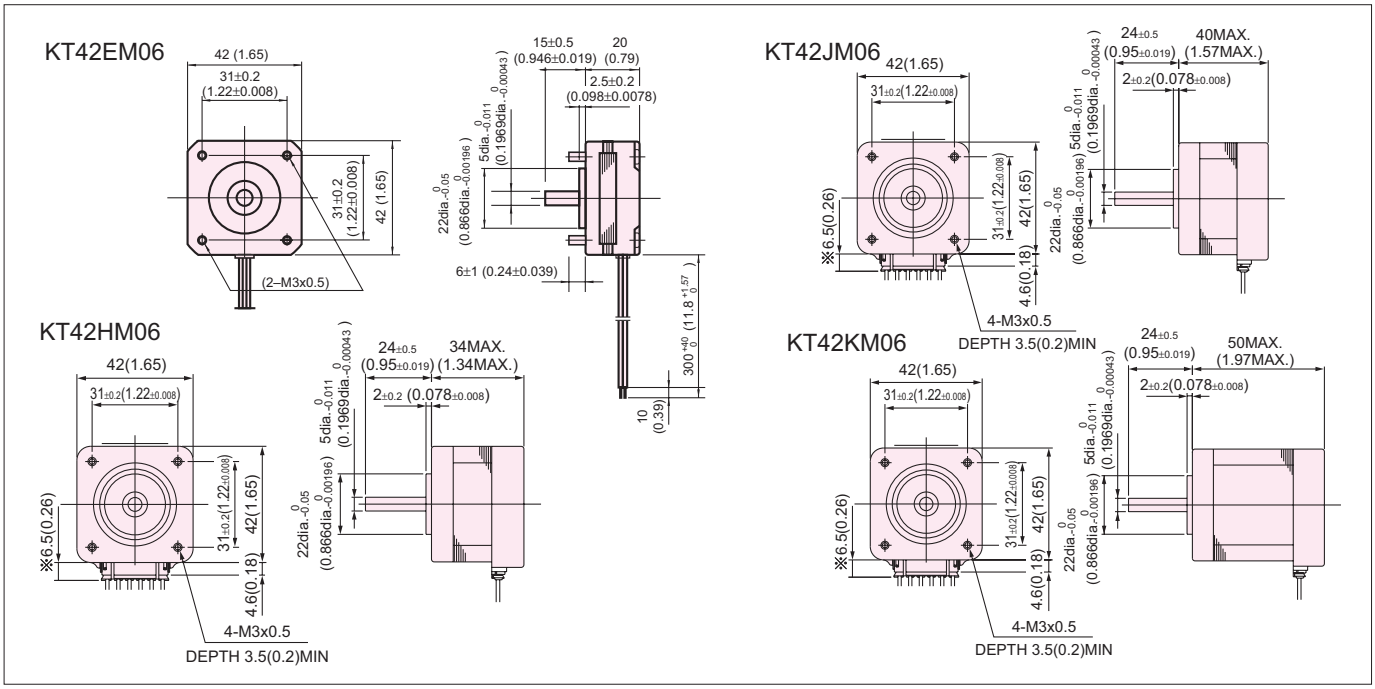
HIGH TORQUE, SILENT ROTATION

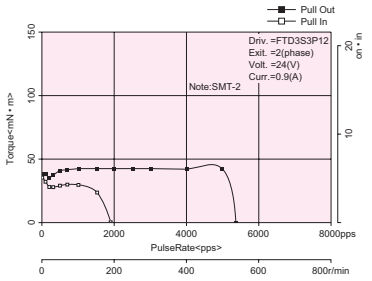
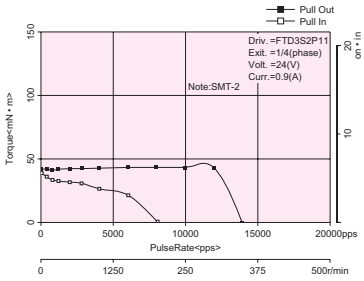
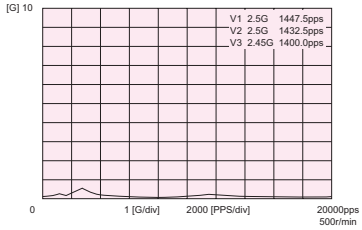
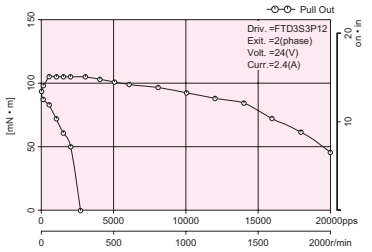
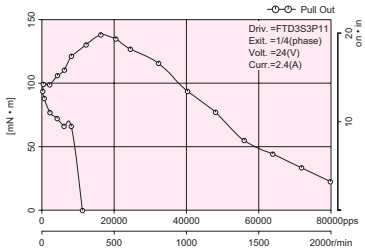
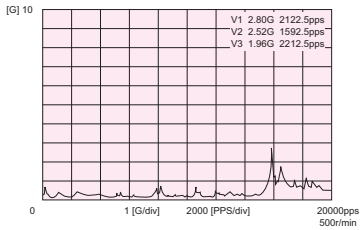
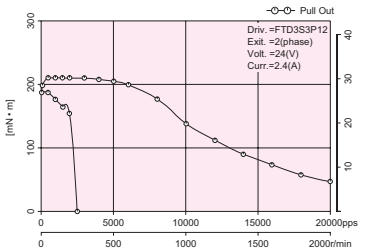
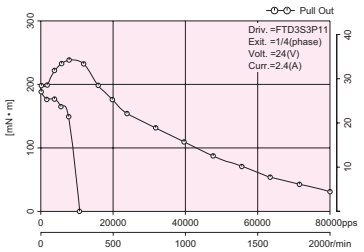
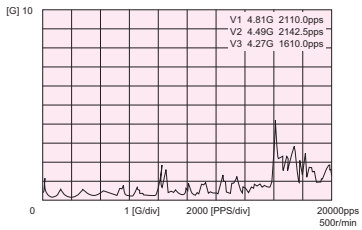
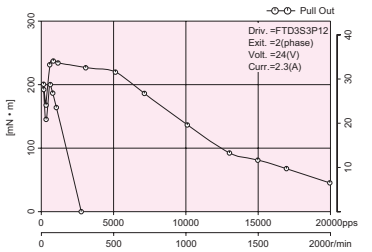
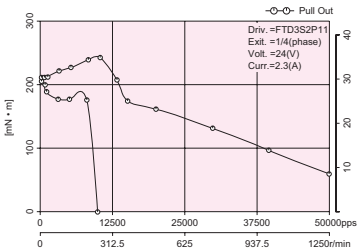
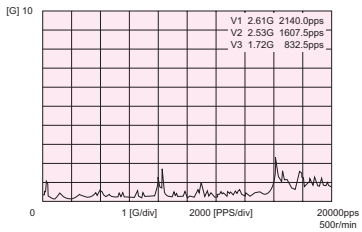
■ STANDARD SPECIFICATIONS

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 • cm²	20	42	60	85
	oz • in²	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			

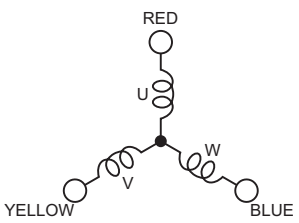
KT42EM4

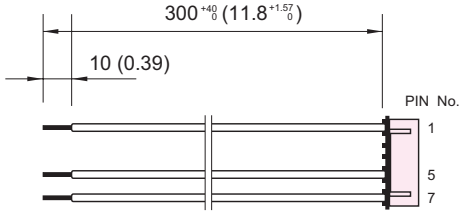
■ DIMENSIONS unit = mm (inch)



	TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V 2 PHASE	TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 DIVISIONS	VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)
KT42EM06 -551			
KT42HM06 -551			
KT42JM06 -551			
KT42KM06 -551			

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





PIN No.	LEAD COLOR
1	RED
2	
3	
4	
5	BLUE
6	
7	YELLOW

3-Phase Hybrid Stepping Motor 1.2°

KT42 series *TRISYN*

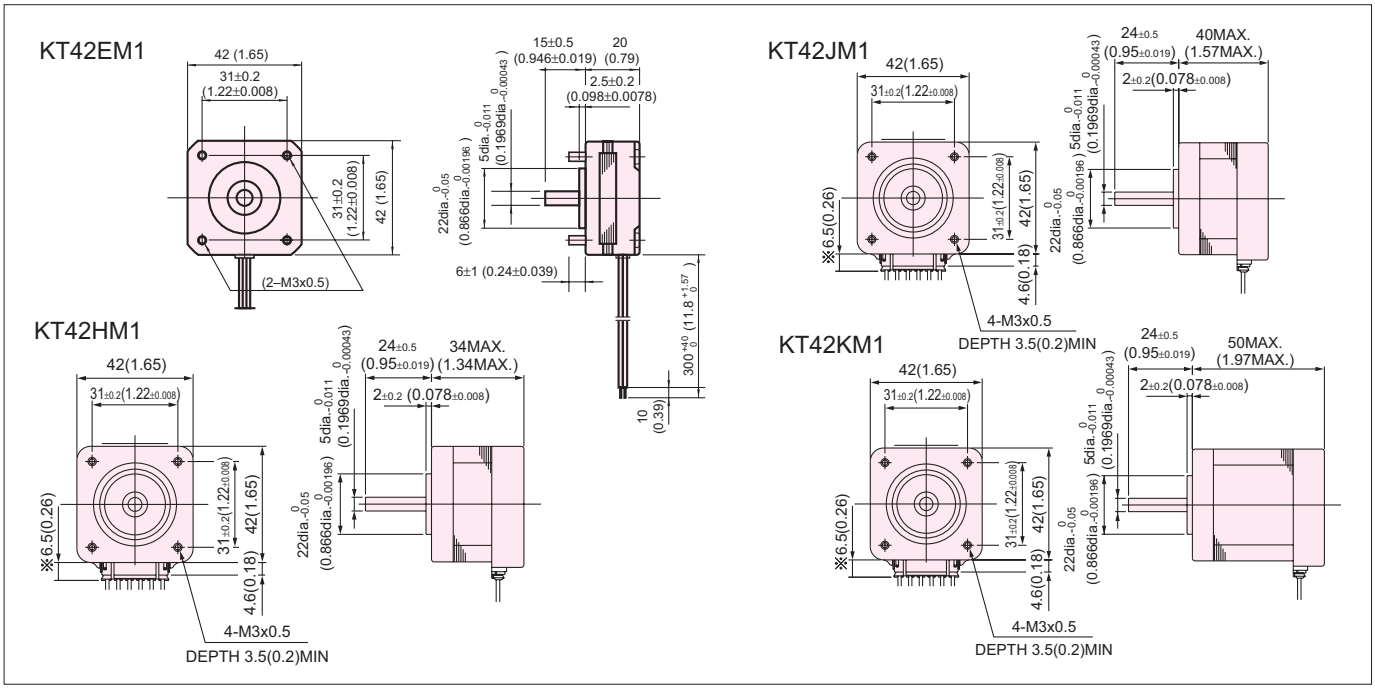
HIGH TORQUE, SILENT ROTATION

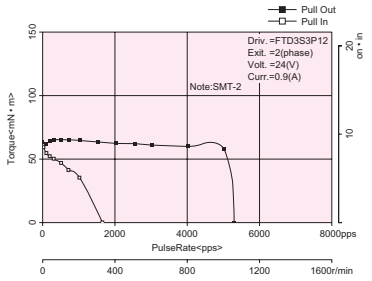
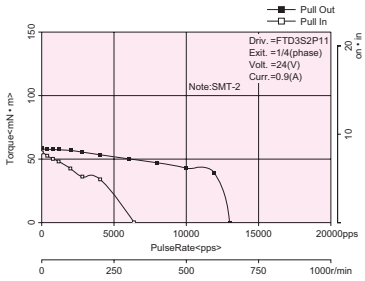
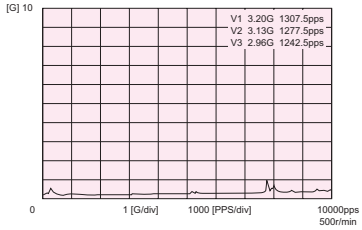
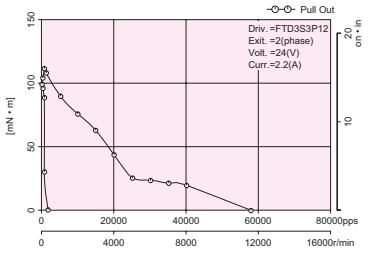
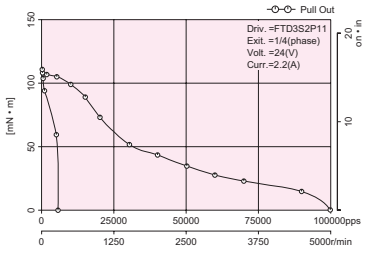
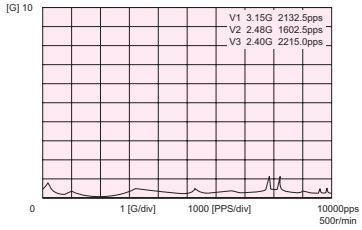
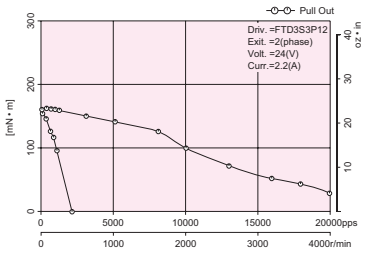
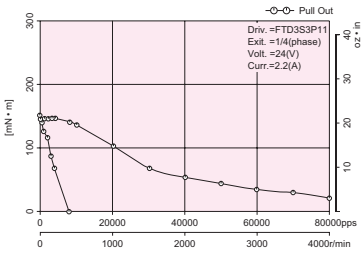
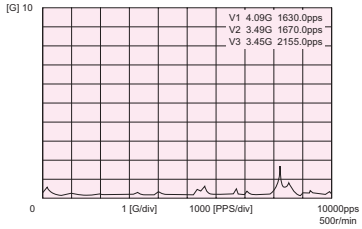
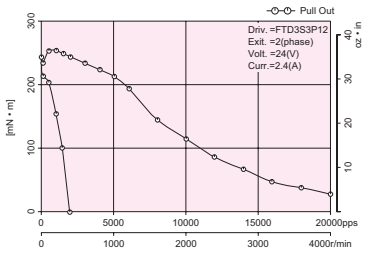
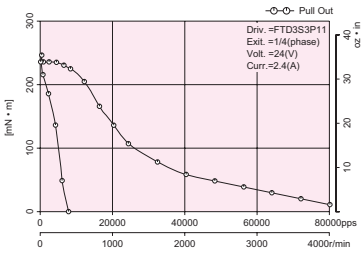
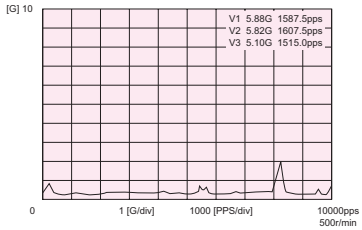
■ STANDARD SPECIFICATIONS

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 • cm²	20	42	60	85
	oz • in²	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			

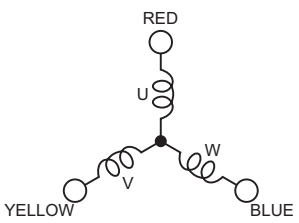
KT42EM1

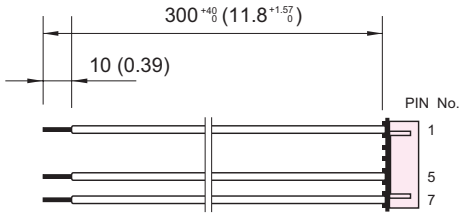
■ DIMENSIONS unit = mm (inch)



	TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V 2 PHASE	TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 DIVISIONS	VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)
KT42EM1 -551			
KT42HM1 -551			
KT42JM1 -551			
KT42KM1 -551			

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





PIN No.	LEAD COLOR
1	RED
2	
3	
4	
5	BLUE
6	
7	YELLOW

3-Phase Hybrid Stepping Motor 3.75°

KT42 series *TRISYN*

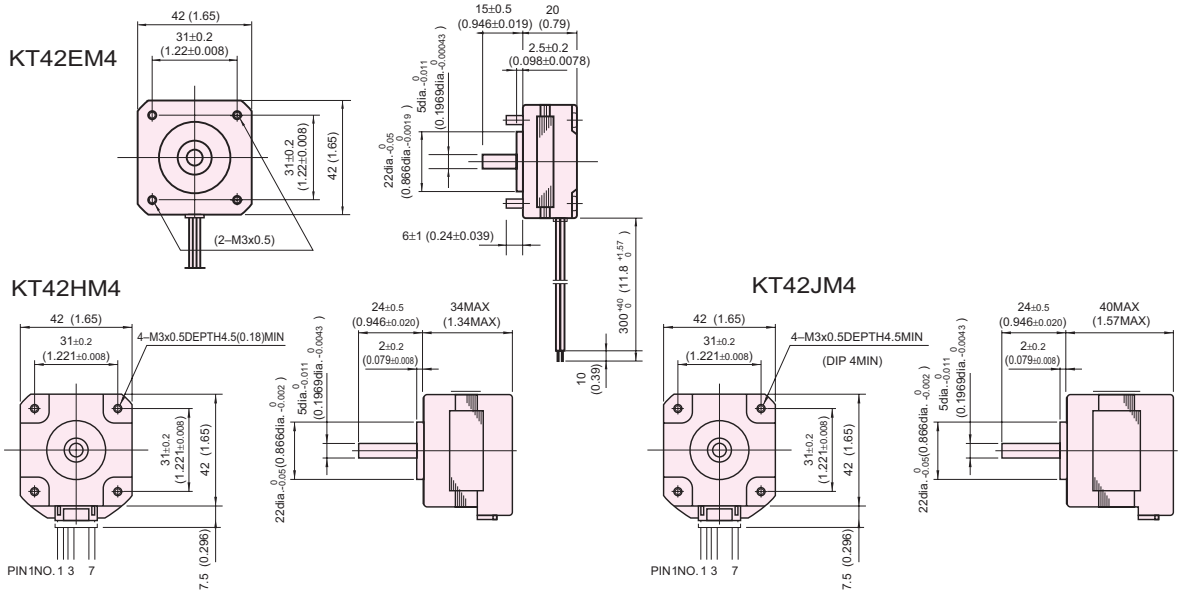
HIGH TORQUE, SILENT ROTATION

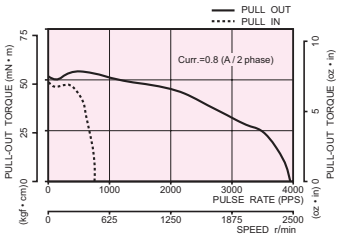
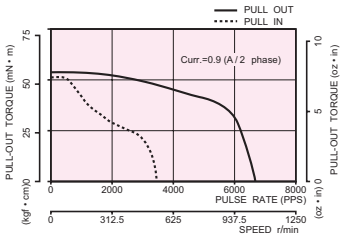
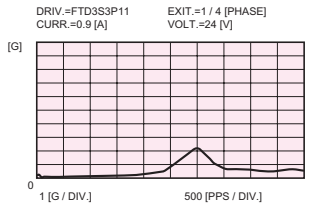
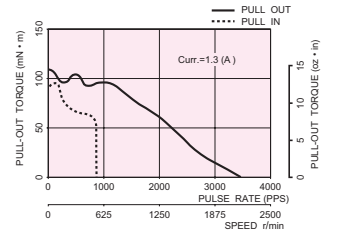
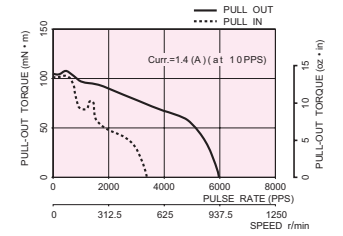
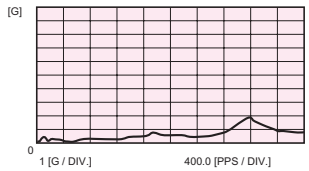
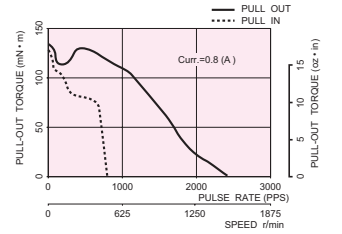
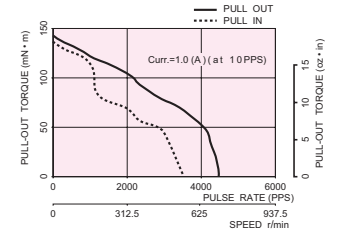
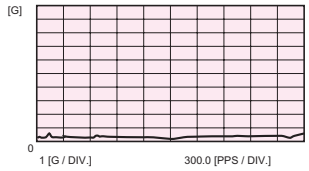
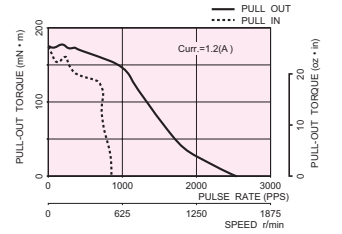
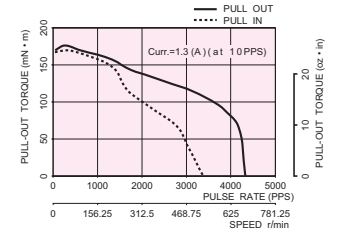
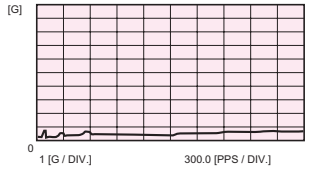
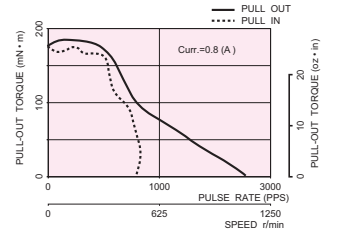
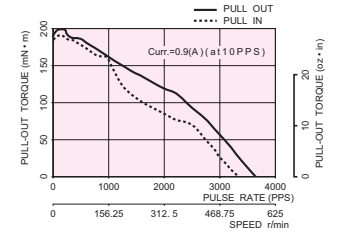
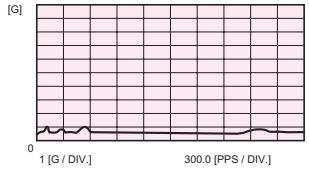
■ STANDARD SPECIFICATIONS

MODEL	UNIT	KT42EM4	KT42HM4		KT42JM4	
		-551	-551	-552	-551	-552
DRIVE METHOD	————	BI-POLAR				
NUMBER OF PHASES	————	3				
STEP ANGLE	deg./step	3.75				
VOLTAGE	V	5.28	4.42	7.04	5.16	8.8
CURRENT	A/2-PHASE	0.8	1.3	0.8	1.2	0.8
WINDING RESISTANCE	Ω/2-PHASE	6.6	3.4	8.8	4.3	11.0
INDUCTANCE	mH/2-PHASE	5.7	4.7	12.3	8.7	22.0
HOLDING TORQUE	mN • m	70	130	130	180	180
	oz • in	9.7	18	18	25	25
DETENT TORQUE	mN • m	8.8	14.7	14.7	19.6	19.6
	oz • in	1.3	2.1	2.1	2.8	2.8
ROTOR INERTIA	g • cm²	20	38	38	60	60
	oz • in²	0.11	0.21	0.21	0.33	0.33
WEIGHTS	g	140	210	210	240	240
	lb	0.31	0.46	0.46	0.53	0.53
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				

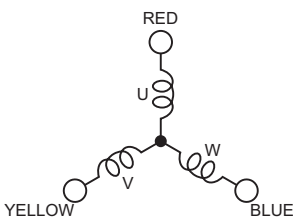
KT42EM4

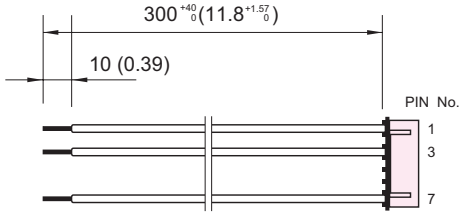
■ DIMENSIONS unit = mm (inch)



	TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V 2 PHASE	TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 DIVISIONS	VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)
KT42EM4 -551			
KT42HM4 -551			
KT42HM4 -552			
KT42JM4 -551			
KT42JM4 -552			

■ CONNECTION CABLE TO MOTOR unit = mm (inch) (Except for KT42EM4-551)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED

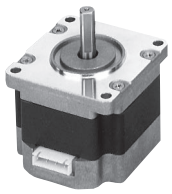
3-Phase Hybrid Stepping Motor 0.6°

KT60 series *TRISYN*

HIGH TORQUE, SILENT ROTATION

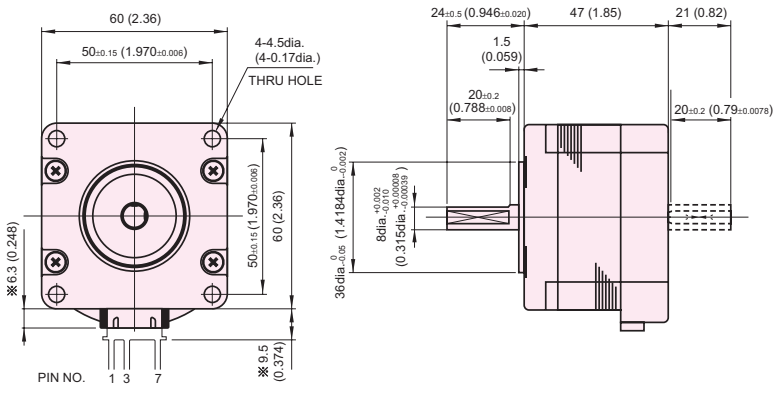
■ STANDARD SPECIFICATIONS

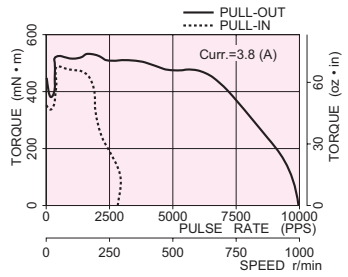
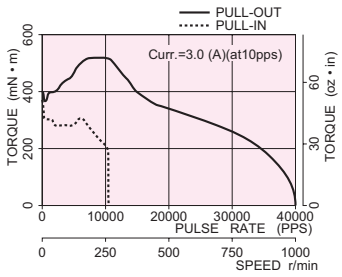
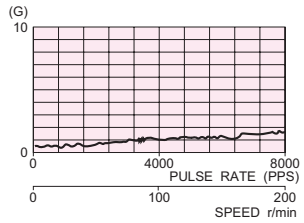
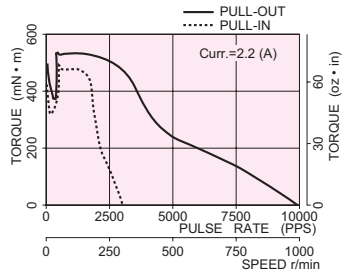
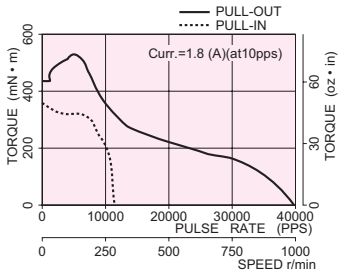
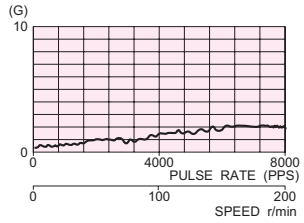
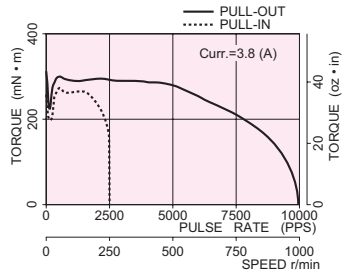
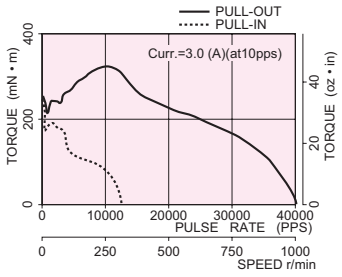
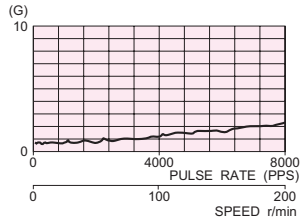
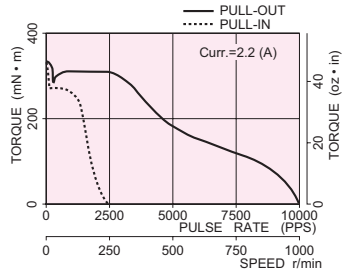
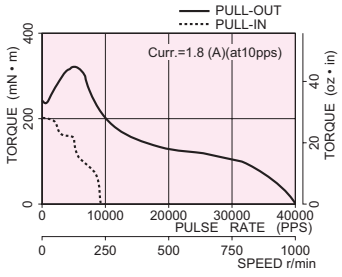
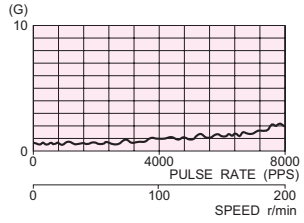
M O D E L	UNIT	KT60KM06			
		-551	-552	-751	-752
DRIVE METHOD	————	BI-POLAR			
NUMBER OF PHASES	————	3			
STEP ANGLE	deg./step	0.6			
VOLTAGE	V	2.09	3.52	2.09	3.52
CURRENT	A/2-PHASE	3.8	2.2	3.8	2.2
WINDING RESISTANCE	Ω/2-PHASE	0.55	1.6	0.55	1.6
INDUCTANCE	mH/2-PHASE	1.0	3.0	1.0	3.1
HOLDING TORQUE	mN • m	500	500	300	300
	oz • in	69	69	42	42
DETENT TORQUE	mN • m	20	20	10	10
	oz • in	2.8	2.8	1.4	1.4
ROTOR INERTIA	g • cm^2	170	170	170	170
	oz • in^2	0.93	0.93	0.93	0.93
WEIGHTS	g	510	510	510	510
	lb	1.1	1.1	1.1	1.1
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			



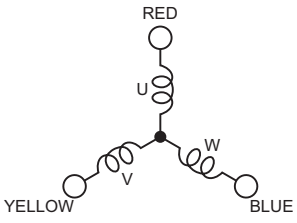
KT60KM06

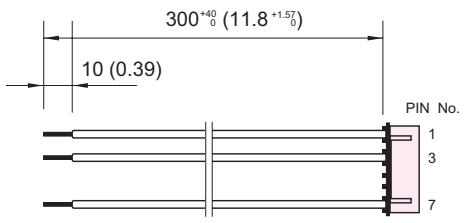
■ DIMENSIONS unit = mm (inch)



	TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V 2 PHASE J:142g•cm²(0.78oz•in²)	TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 DIVISIONS J:142g•cm²(0.78oz•in²)	VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)
KT60KM06 -551			
KT60KM06 -552			
KT60KM06 -751			
KT60KM06 -752			

■ CONNECTION CABLE TO MOTOR unit = mm (inch)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED

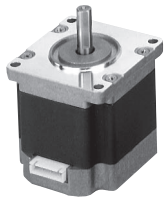
3-Phase Hybrid Stepping Motor 0.6°

KT60 series *TRISYN*

HIGH TORQUE, SILENT ROTATION

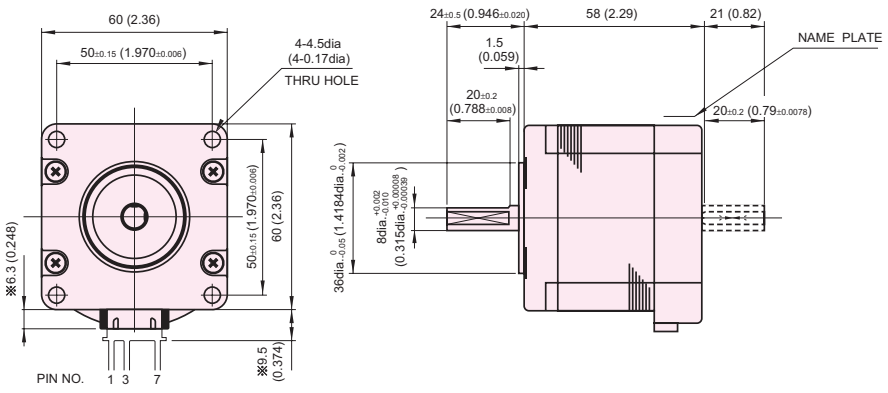
■ STANDARD SPECIFICATIONS

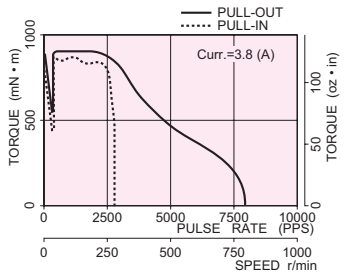
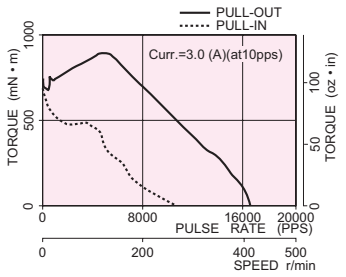
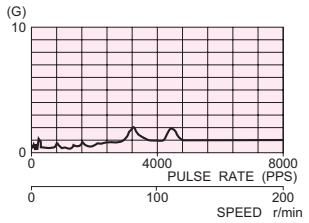
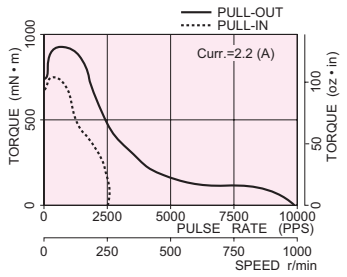
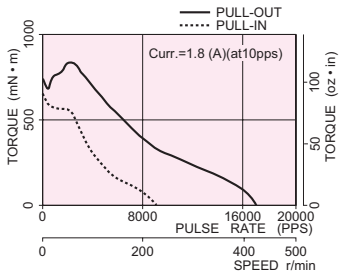
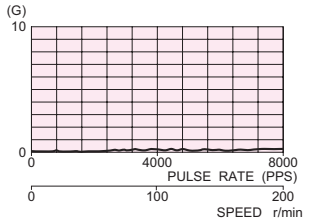
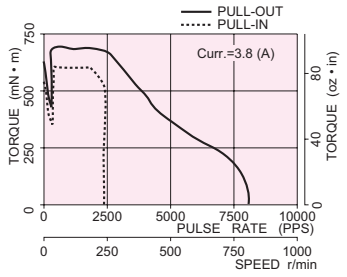
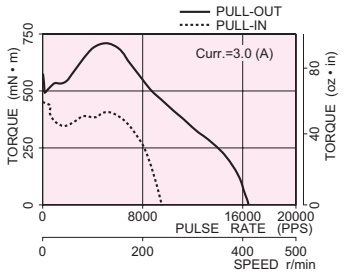
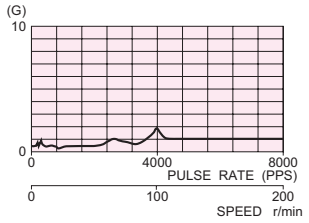
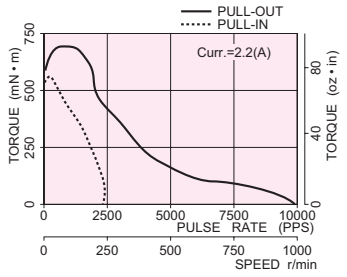
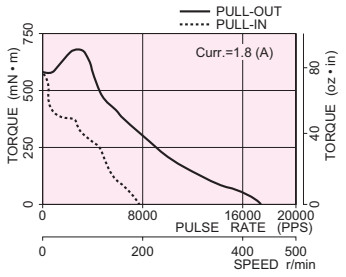
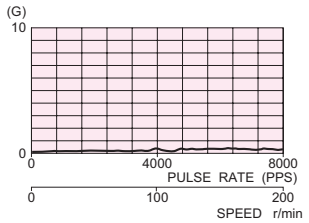
M O D E L	UNIT	KT60LM06			
		-551	-552	-751	-752
DRIVE METHOD	————	BI-POLAR			
NUMBER OF PHASES	————	3			
STEP ANGLE	deg./step	0.6			
VOLTAGE	V	2.77	4.84	2.77	4.84
CURRENT	A/2-PHASE	3.8	2.2	3.8	2.2
WINDING RESISTANCE	Ω/2-PHASE	0.73	2.2	0.73	2.2
INDUCTANCE	mH/2-PHASE	1.7	5.6	1.8	5.7
HOLDING TORQUE	mN • m	900	900	600	600
	oz • in	125	125	83	83
DETENT TORQUE	mN • m	25	25	15	15
	oz • in	3.5	3.5	2.1	2.1
ROTOR INERTIA	g • cm^2	265	265	265	265
	oz • in^2	1.45	1.45	1.45	1.45
WEIGHTS	g	720	720	720	720
	lb	1.6	1.6	1.6	1.6
INSULATION CLASS	————	JIS Class E (120°C 248°F)(UL VALUE:CLASS B 130°C 266°F)			
INSULATION RESISTANCE	————	500VDC 100MΩmin.			
DIELECTRIC STRENGTH	————	500VAC 50H Z1min.			
OPERATING TEMP. RANGE	°C	-10 to 50			
ALLOWABLE TEMP. RISE	deg.	70			



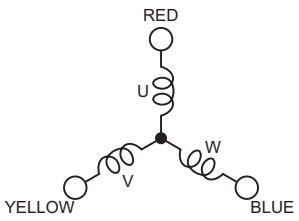
KT60LM06

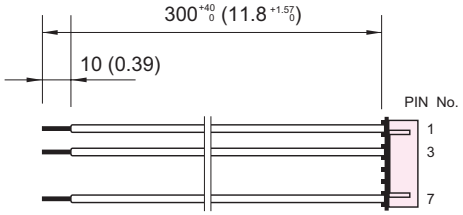
■ DIMENSIONS unit = mm (inch)



	TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP(24V 2 PHASE J:142g•cm²(0.78oz•in²)	TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 DIVISIONS J:142g•cm²(0.78oz•in²)	VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)
KT60LM06 -551			
KT60LM06 -552			
KT60LM06 -751			
KT60LM06 -752			

■ CONNECTION CABLE TO MOTOR unit = mm (inch)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED

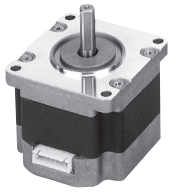
3-Phase Hybrid Stepping Motor 1.2°

KT60 series *TRISYN*

HIGH TORQUE, SILENT ROTATION

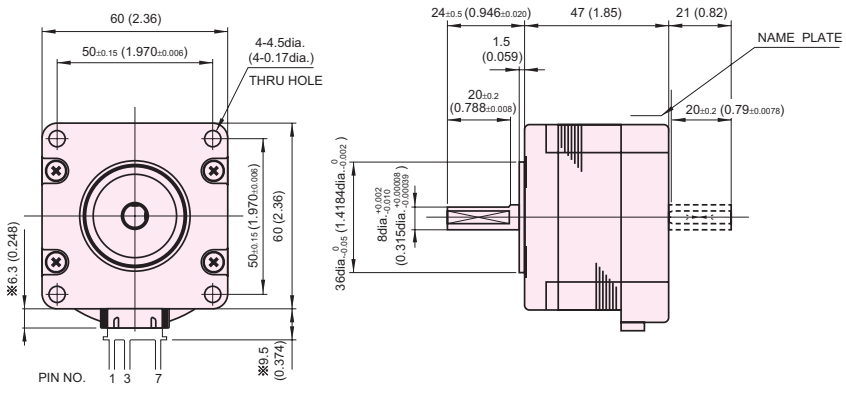
■ STANDARD SPECIFICATIONS

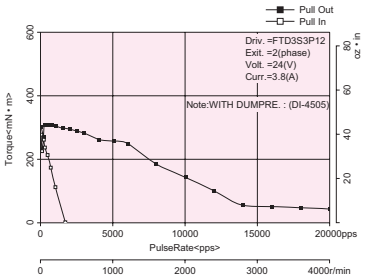
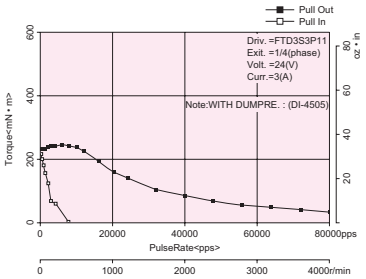
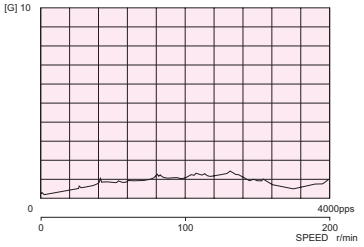
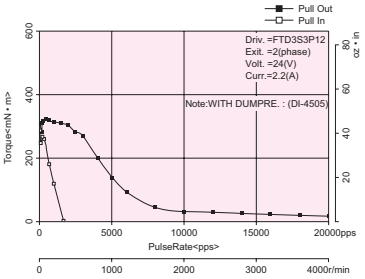
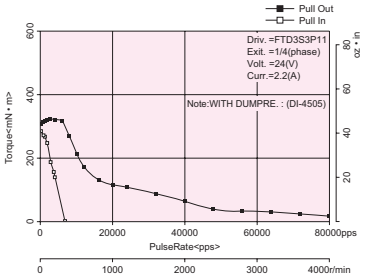
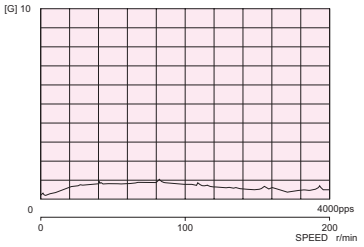
M O D E L	UNIT	KT60KM1	
		-551	-552
DRIVE METHOD	————	BI-POLAR	
NUMBER OF PHASES	————	3	
STEP ANGLE	deg./step	1.2	
VOLTAGE	V	2.09	3.52
CURRENT	A/2-PHASE	3.8	2.2
WINDING RESISTANCE	Ω/2-PHASE	0.55	1.6
INDUCTANCE	mH/2-PHASE	0.8	2.5
HOLDING TORQUE	mN • m	320	320
	oz • in	45.3	45.3
DETENT TORQUE	mN • m	20	20
	oz • in	2.8	2.8
ROTOR INERTIA	g • cm^2	170	170
	oz • in^2	0.93	0.93
WEIGHTS	g	510	510
	lb	1.1	1.1
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	



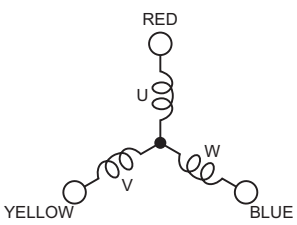
KT60KM1

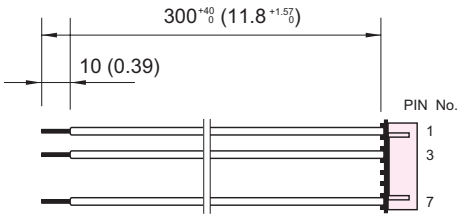
■ DIMENSIONS unit = mm (inch)



	TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V 2 PHASE J:142g•cm²(0.78oz•in²)	TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 DIVISIONS J:142g•cm²(0.78oz•in²)	VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)
KT60KM1 -551			
KT60KM1 -552			

■ CONNECTION CABLE TO MOTOR unit = mm (inch)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED

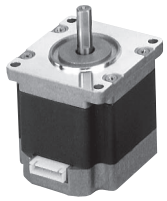
3-Phase Hybrid Stepping Motor 1.2°

KT60 series *TRISYN*

HIGH TORQUE, SILENT ROTATION

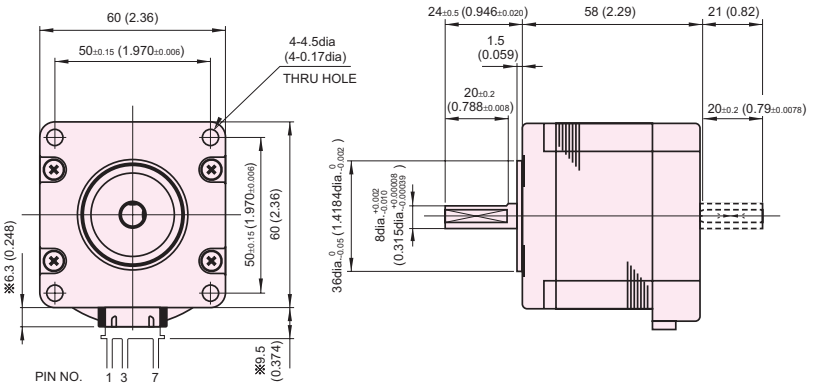
■ STANDARD SPECIFICATIONS

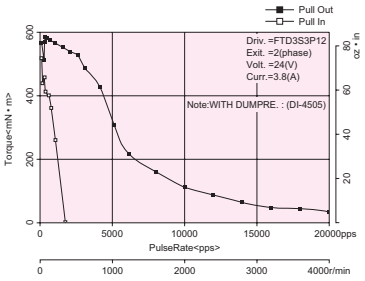
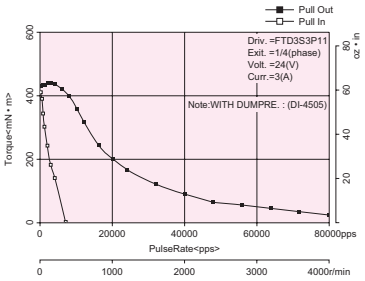
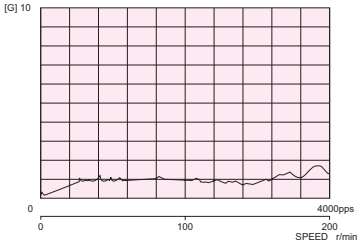
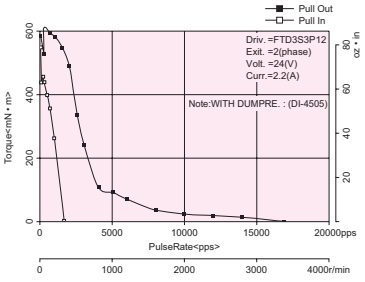
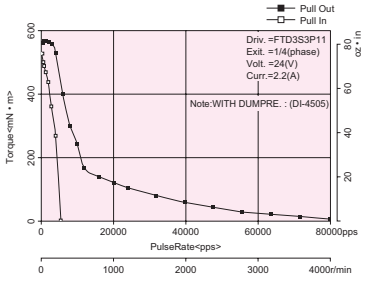
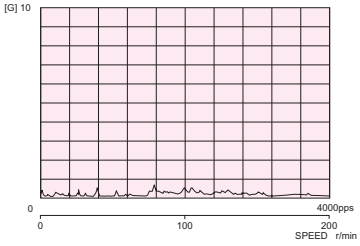
M O D E L	UNIT	KT60LM1	
		-551	-552
DRIVE METHOD	————	BI-POLAR	
NUMBER OF PHASES	————	3	
STEP ANGLE	deg./step	1.2	
VOLTAGE	V	2.77	4.84
CURRENT	A/2-PHASE	3.8	2.2
WINDING RESISTANCE	Ω/2-PHASE	0.73	2.2
INDUCTANCE	mH/2-PHASE	1.0	3.3
HOLDING TORQUE	mN • m	600	600
	oz • in	85	85
DETENT TORQUE	mN • m	25	25
	oz • in	3.5	3.5
ROTOR INERTIA	g • cm^2	265	265
	oz • in^2	1.45	1.45
WEIGHTS	g	720	720
	lb	1.6	1.6
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	



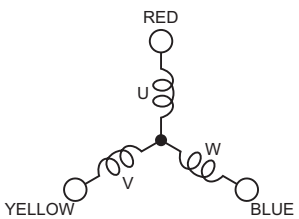
KT60LM06

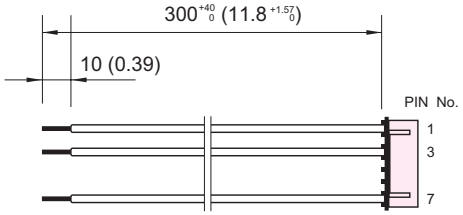
■ DIMENSIONS unit = mm (inch)



	TORQUE CHARACTERISTICS VS. PULSE RATE (FULL STEP) 24V 2 PHASE J:142g•cm²(0.78oz•in²)	TORQUE CHARACTERISTICS VS. PULSE RATE (MICRO-STEP) 24V 1/4 DIVISIONS J:142g•cm²(0.78oz•in²)	VIBRATION CHARACTERISTICS (MICRO-STEP DRIVEN)
KT60LM1 -551			
KT60LM1 -552			

■ CONNECTION CABLE TO MOTOR unit = mm (inch)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED

3-Phase Hybrid Stepping Motor 3.75°

KR42 series *TRISYN*

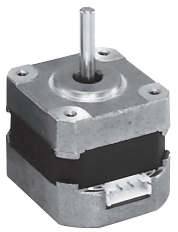
HIGH TORQUE, LOW VIBRATION AND LOW OPERATING NOISE

■ STANDARD SPECIFICATIONS

MODEL	UNIT	KR42HM4	
		-551	-552
NUMBER OF PHASES	———	3	
STEP ANGLE	deg./step	3.75	
VOLTAGE	V	2.8	4.42
CURRENT	A/2-PHASE	2	1.3
WINDING RESISTANCE	Ω/2-PHASE	1.4	3.4
INDUCTANCE	mH/2-PHASE	1.7	4.0
HOLDING TORQUE	mN • m	*1 49	*2 49
	oz • in	6.9	6.9
DETENT TORQUE	mN • m	9.8	9.8
	oz • in	1.4	1.4
ROTOR INERTIA	g • cm²	31	31
	oz • in²	0.17	0.17
WEIGHTS	kg	0.19	0.19
	lb	0.42	0.42
INSULATION CLASS	———	JIS Class E (120°C 248°F)(UL VALUE:CLASS B 130° 266°F)	
INSULATION RESISTANCE	———	500VDC 100MΩmin.	
DIELECTRIC STRENGTH	———	500VAC 50HZ 1min.	
OPERATING TEMP. RANGE	°C	-10 to 50	
ALLOWABLE TEMP. RISE	deg.	70	

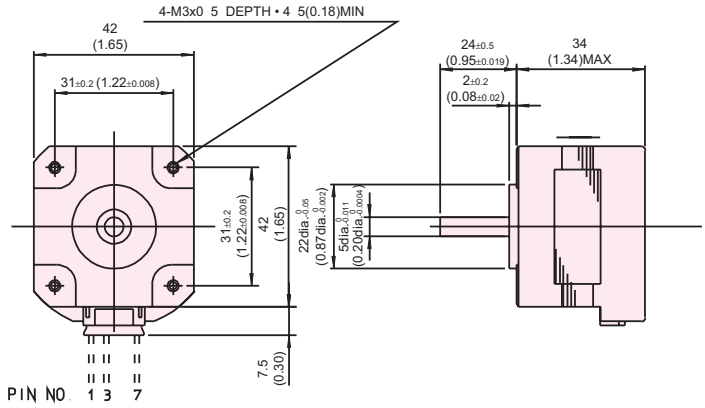
*1 : 2A/2-Phase

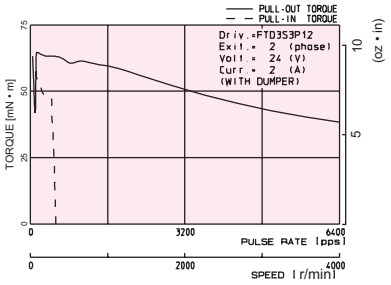
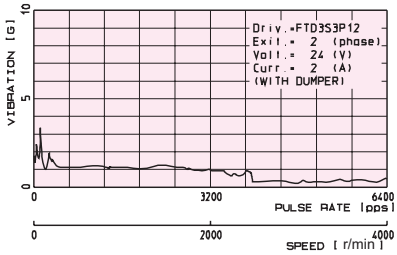
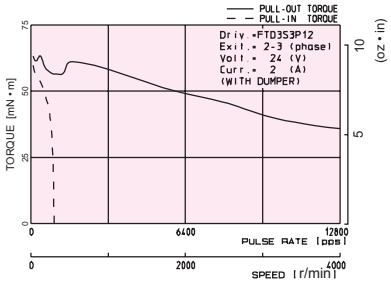
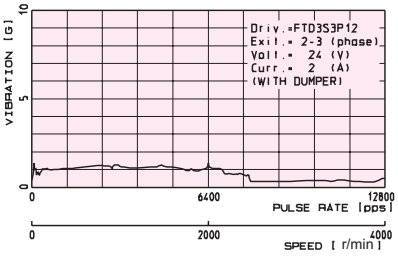
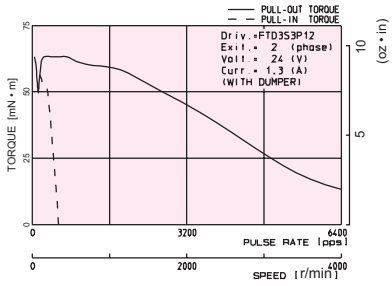
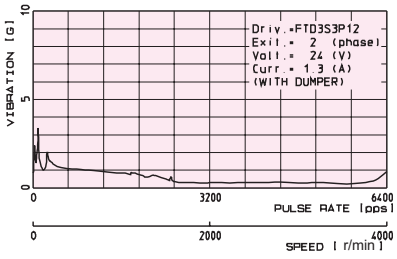
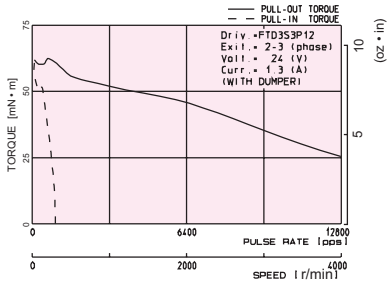
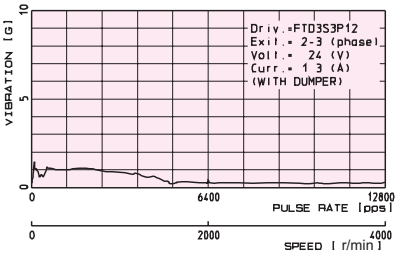
*2 : 1.3A/2-Phase



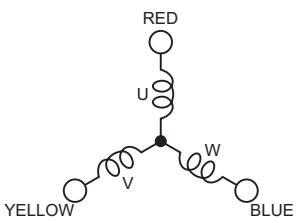
KR42HM4

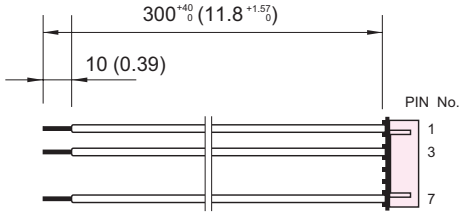
■ DIMENSIONS unit = mm (inch)



		TORQUE CHARACTERISTICS VS. PULSE RATE	VIBRATION CHARACTERISTICS
KR42HM4 -551	2PHASE EXCITATION		
	2-3PHASE EXCITATION		
KR42HM4 -552	2PHASE EXCITATION		
	2-3PHASE EXCITATION		

■ CONNECTION CABLE TO MOTOR unit = mm (inch) (Except for KT42EM4-551)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED

3-Phase Hybrid Stepping Motor 3.75°

KR42 series *TRISYN*

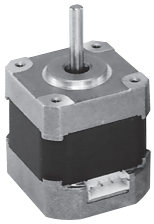
HIGH TORQUE, LOW VIBRATION AND LOW OPERATING NOISE

■ STANDARD SPECIFICATIONS

MODEL	UNIT	KR42JM4	
		-551	-552
NUMBER OF PHASES	————	3	
STEP ANGLE	deg./step	3.75	
VOLTAGE	V	3.5	5.16
CURRENT	A/2-PHASE	2	1.2
WINDING RESISTANCE	Ω/2-PHASE	1.75	4.3
INDUCTANCE	mH/2-PHASE	2.1	8.7
HOLDING TORQUE	mN • m	*1 88	*2 88
	oz • in	12.5	12.5
DETENT TORQUE	mN • m	9.8	9.8
	oz • in	1.4	1.4
ROTOR INERTIA	g • cm²	45	45
	oz • in²	0.25	0.25
WEIGHTS	kg	0.24	0.24
	lb	0.53	0.53
INSULATION CLASS	————	JIS Class E (120°C 248°F)(UL VALUE:CLASS B 130°C 26°F)	
INSULATION RESISTANCE	————	500VDC 100MΩmin.	
DIELECTRIC STRENGTH	————	500VAC 50HZ 1min.	
OPERATING TEMP. RANGE	°C	-10 to 50	
ALLOWABLE TEMP. RISE	deg.	70	

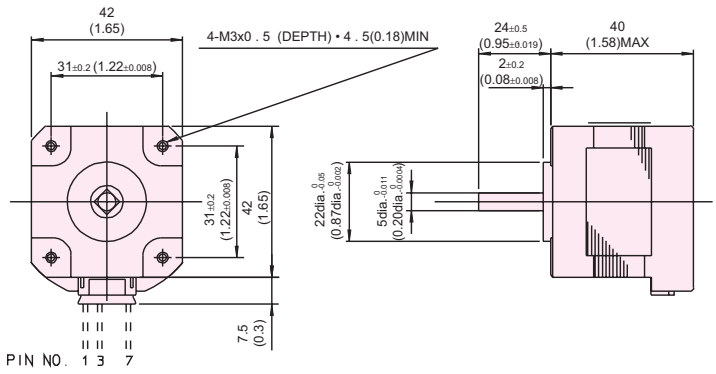
*1 : 2A/2-Phase

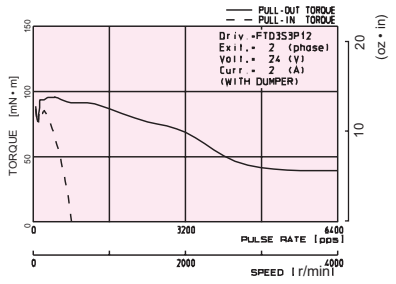
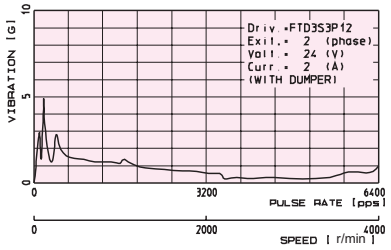
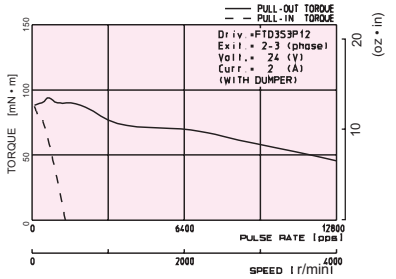
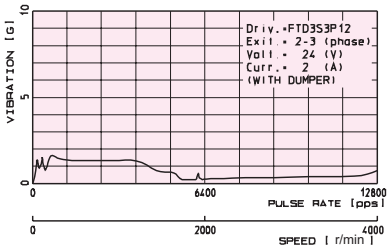
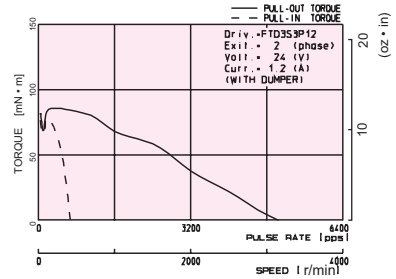
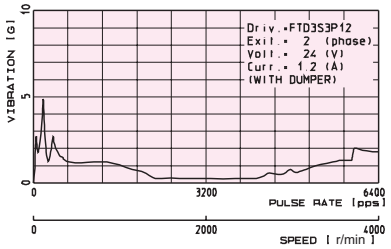
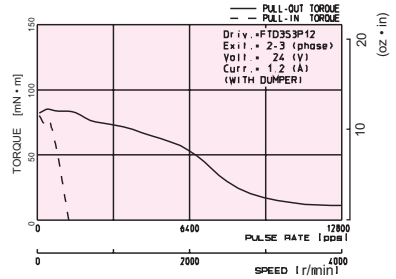
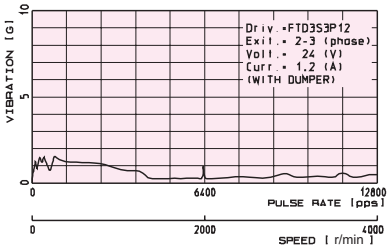
*2 : 1.3A/2-Phase



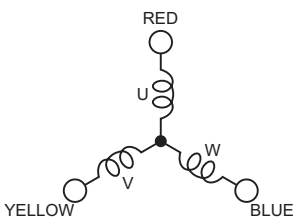
KR42JM4

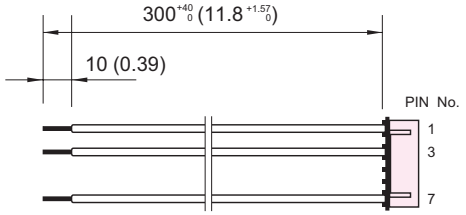
■ DIMENSIONS unit = mm (inch)



		TORQUE CHARACTERISTICS VS. PULSE RATE	VIBRATION CHARACTERISTICS
KR42JM4 -551	2PHASE EXCITATION		
	2-3PHASE EXCITATION		
KR42JM4 -552	2PHASE EXCITATION		
	2-3PHASE EXCITATION		

■ CONNECTION CABLE TO MOTOR unit = mm (inch) (Except for KT42EM4-551)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED

3-Phase Hybrid Stepping Motor 3.75°

KR42 series *TRISYN*

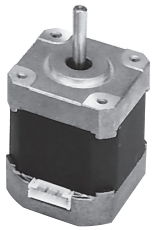
HIGH TORQUE, LOW VIBRATION AND LOW OPERATING NOISE

■ STANDARD SPECIFICATIONS

MODEL	UNIT	KR42KM4	
		-551	-552
NUMBER OF PHASES	———	3	
STEP ANGLE	deg./step	3.75	
VOLTAGE	V	3.5	6.5
CURRENT	A/2-PHASE	2.5	1.3
WINDING RESISTANCE	Ω/2-PHASE	1.40	5.0
INDUCTANCE	mH/2-PHASE	1.7	7.7
HOLDING TORQUE	mN • m	*1 118	*2 118
	oz • in	16.7	16.7
DETENT TORQUE	mN • m	9.8	9.8
	oz • in	1.4	1.4
ROTOR INERTIA	g • cm²	57	57
	oz • in²	0.31	0.31
WEIGHTS	kg	0.32	
	lb	0.70	
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	

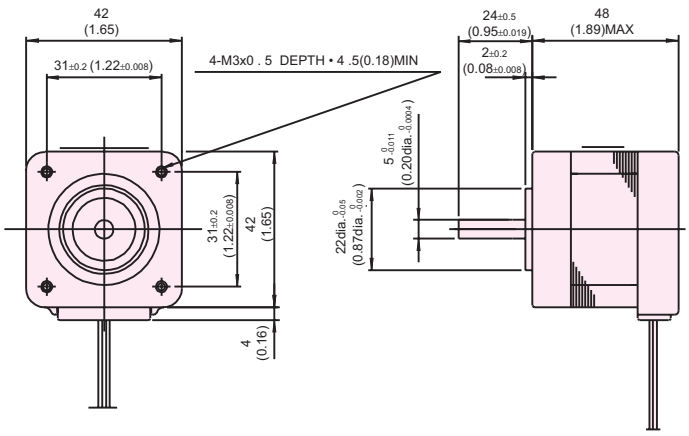
*1 : 2A/2-Phase

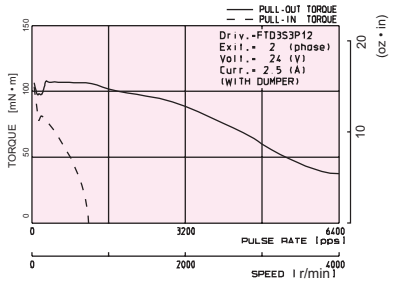
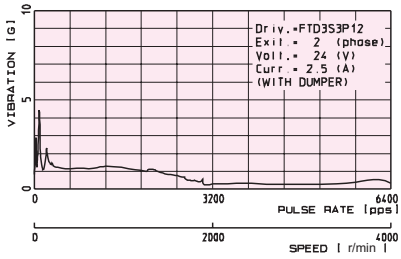
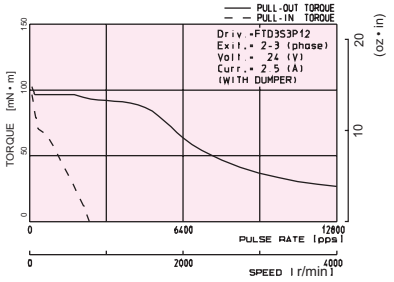
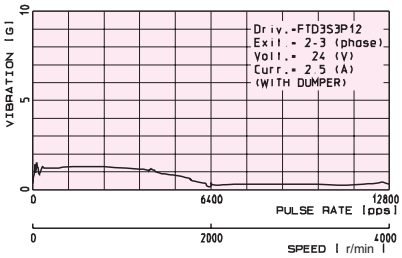
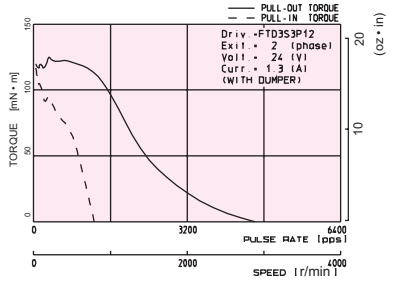
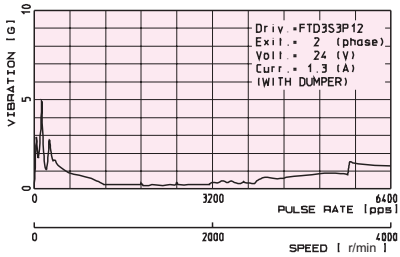
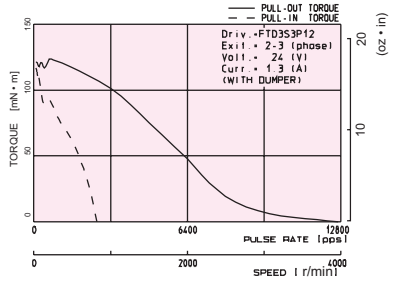
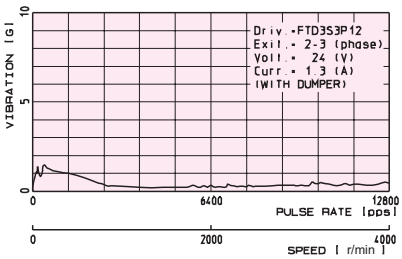
*2 : 1.3A/2-Phase



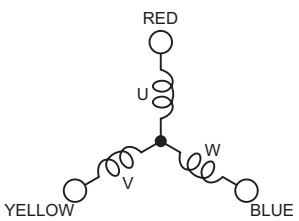
KR42KM4

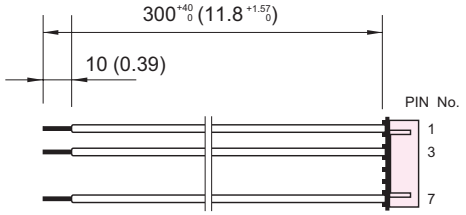
■ DIMENSIONS unit = mm (inch)



		TORQUE CHARACTERISTICS VS. PULSE RATE	TORQUE CHARACTERISTICS VS. PULSE RATE
KR42KM4 -551	2PHASE EXCITATION		
	2-3PHASE EXCITATION		
KR42KM4 -552	2PHASE EXCITATION		
	2-3PHASE EXCITATION		

■ CONNECTION CABLE TO MOTOR unit = mm (inch) (Except for KT42EM4-551)





PIN No.	LEAD COLOR
1	YELLOW
2	
3	BLUE
4	
5	
6	
7	RED