

# 3-Phase Hybrid Stepping Motor

0.6°

## KT42 series *TRISYN*

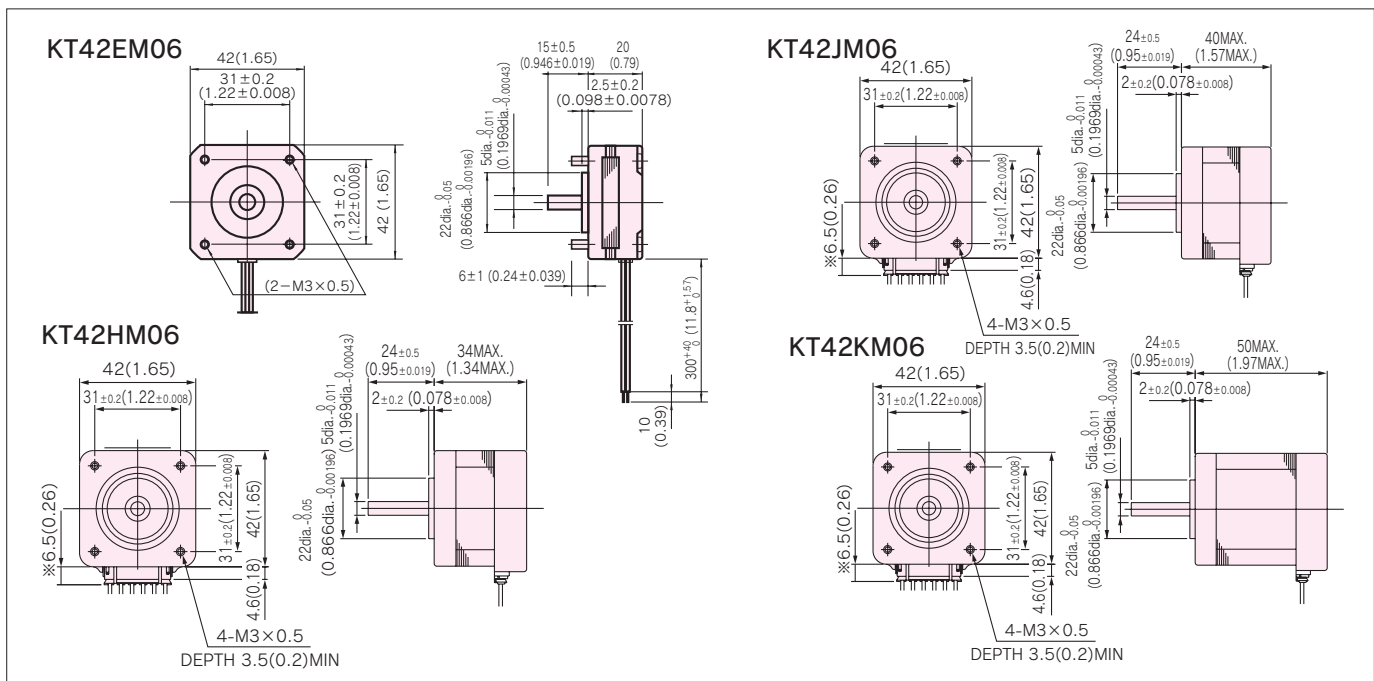
HIGH TORQUE, SILENT ROTATION

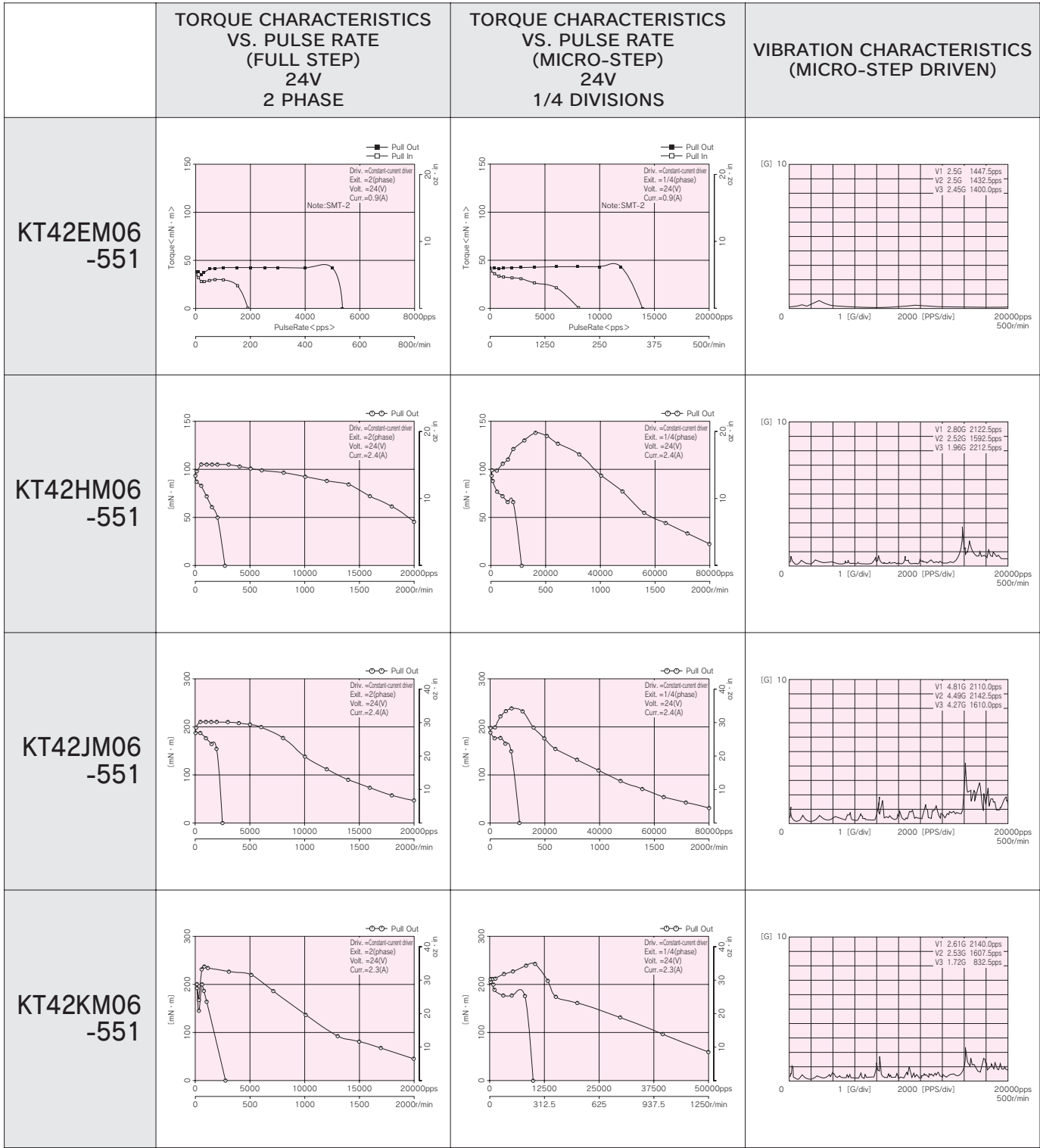
### STANDARD SPECIFICATIONS

| 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 <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 KT42EM06-551)

