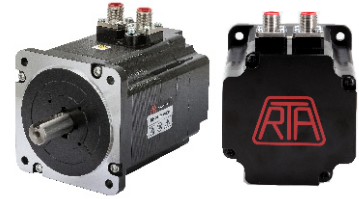
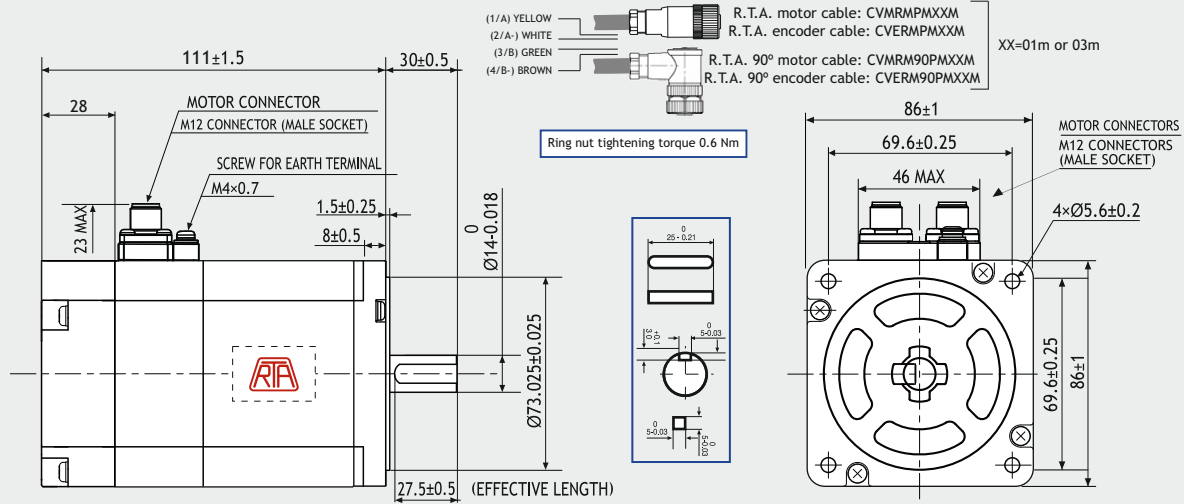


# RM 3T1M-0XX0

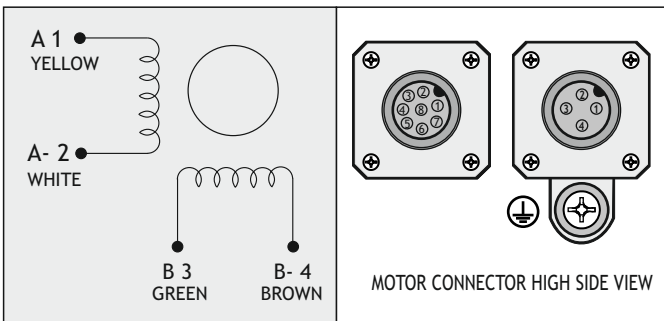
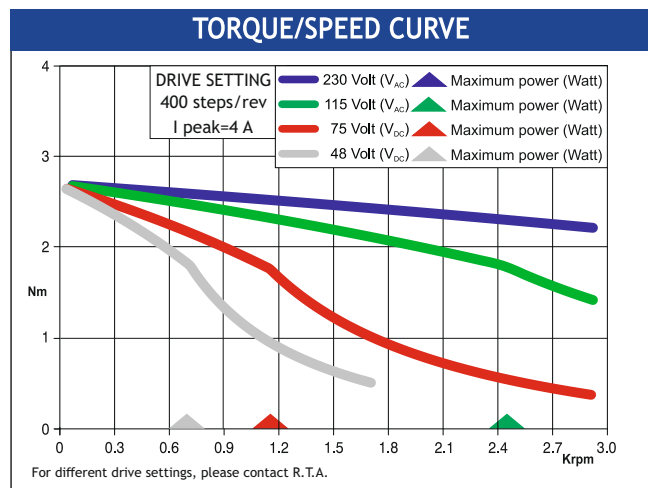


## Dimensions (Unit:mm)



| ENCODER OPTIONS:            | RM 3T1M-04D0                                    | RM 3T1M-04E0                                   | RM 3T1M-0HE0                                   |
|-----------------------------|---|--|--|
| RESOLUTION                  | 400 cpr   | 400 cpr  | 4000 cpr                                       |
| INDEX                       | No  | Yes  | Yes  |
| CURRENT CONSUMPTION (mA)    | 50  | 50   | 85   |
| HIGH LEVEL OUTPUT (Volt)    | 5 (TIP) - 4.75 (MIN) (I <sub>max</sub> =25mA)   | 3.4 (TIP) - 2.4 (MIN) (I <sub>max</sub> =20mA) | 3.4 (TIP) - 2.4 (MIN) (I <sub>max</sub> =20mA) |
| LOW LEVEL OUTPUT (Volt)     | 0.25 (TIP) - 0.6 (MAX) (I <sub>max</sub> =25mA) | 0.2 (TIP) - 0.4 (MAX) (I <sub>max</sub> =20mA) | 0.2 (TIP) - 0.4 (MAX) (I <sub>max</sub> =20mA) |
| OUTPUT SIGNAL               | Differential                                    | Differential                                   | Differential                                   |
| MAXIMUM FREQUENCY (KHz)     | 100   | 100  | 720  |
| POWER SUPPLY VOLTAGE (Volt) | 5 V <sub>DC</sub> ± 10%                         | 5 V <sub>DC</sub> ± 10%                        | 5 V <sub>DC</sub> ± 10%                        |

| FEATURES  |  |
|---|--|
| MODEL   | RM 3T1M                                    |
| BASIC STEP ANGLE                                      | 1.8 ± 0.09°                                |
| BIPOLAR CURRENT (A)                                   | 4  |
| RESISTANCE (Ohm)                                      | 0.56                                       |
| INDUCTANCE (mH)                                       | 3.7  |
| BIPOLAR HOLDING TORQUE (Ncm)                          | 360  |
| ROTOR INERTIA (Kg·m <sup>2</sup> × 10 <sup>-7</sup> ) | 1480                                       |
| THEORETICAL ACCELERATION (rad × sec. <sup>-2</sup> )  | 24300                                      |
| BACK E.M.F. (V/Krpm)                                  | 90   |
| MASS (Kg)   | 1.95                                       |
| INTERNATIONAL STANDARDS                               | UL, CSA, CE, RoHS                          |
| INSULATION VOLTAGE (V)                                | 250 V <sub>AC</sub> (350 V <sub>DC</sub> ) |
| PROTECTION DEGREE - INSULATION CLASS                  | IP 54 - CLASS F                            |
| LEADS CODE  | V  |



| ENCODER CONNECTOR PIN-OUT |           |                |                          |
|---------------------------|-----------|----------------|--------------------------|
| DESCRIPTION               | 04D0 PINS | 04E0/OHE0 PINS | R.T.A. CABLE LEADS COLOR |
| CHANNEL B+                | 3         | 3              | GREEN                    |
| CHANNEL B-                | 4         | 4              | PURPLE                   |
| CHANNEL A+                | 1         | 1              | BLUE                     |
| CHANNEL A-                | 2         | 2              | BROWN                    |
| + DC (5V)                 | 8         | 8              | RED                      |
| GROUND                    | 5         | 5              | BLACK                    |
| INDEX+                    | /         | 7              | ORANGE                   |
| INDEX-                    | /         | 6              | WHITE                    |

R.T.A. CABLE

CVMRMPMXXM

## Suggested R.T.A. drive series: 230 Vac X-PLUS



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