

# Hybrid Stepper Motor 60BYGH450D-02

## Mechanical Dimensions:

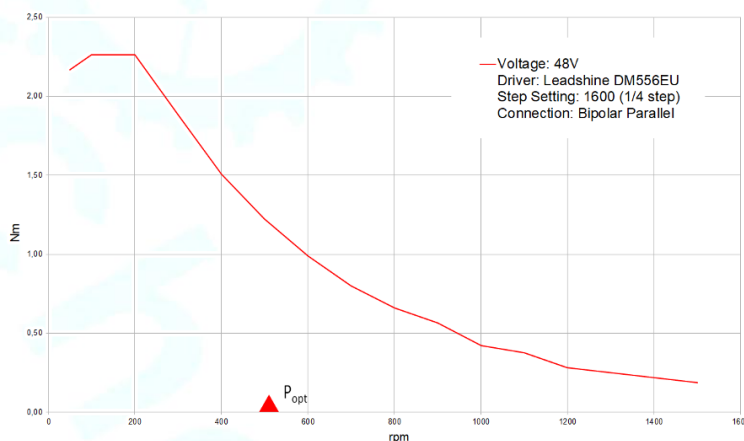
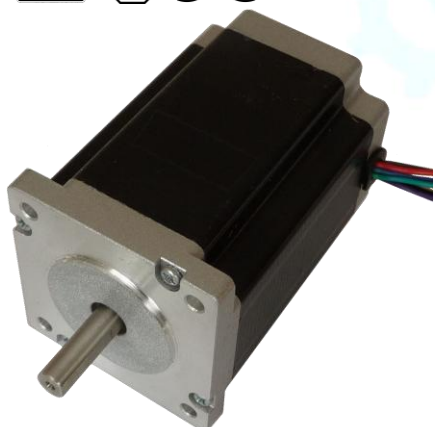
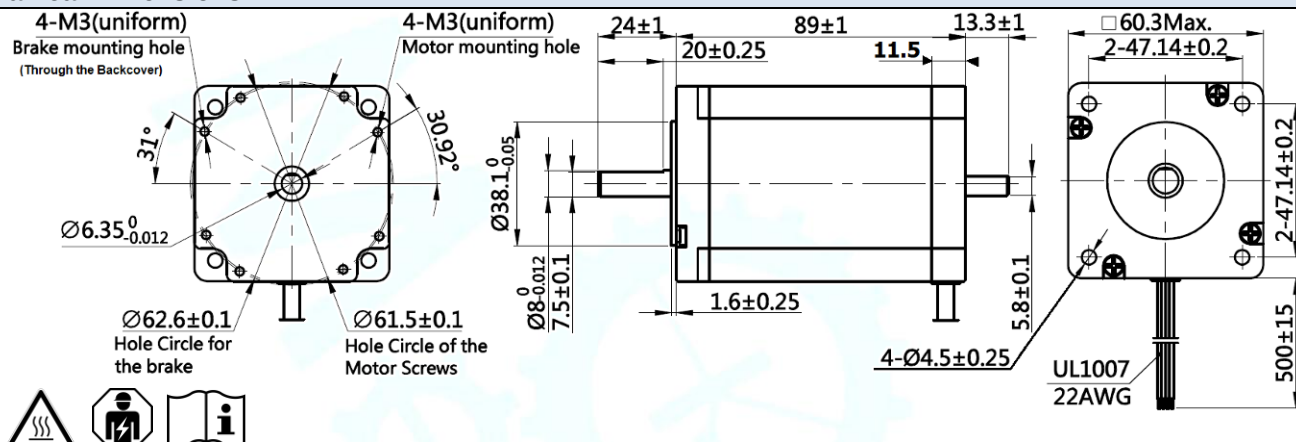


Image for reference only. Actual product may vary. Drawing mandatory.

## Electrical Specifications:

|                                   | Unipolar                                                | Bipolar Serial                                                       | Bipolar Parallel                                                                   |
|-----------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                   |                                                         |                                                                      |                                                                                    |
| No. of phases                     | 4                                                       | 2                                                                    | 2                                                                                  |
| Rated Voltage (V)                 | 4.38                                                    | 6.13                                                                 | 3.07                                                                               |
| Current (A)                       | 3.0                                                     | 2.1                                                                  | 4.2                                                                                |
| Resistance (Ω)                    | 1.46                                                    | 2.92                                                                 | 0.73                                                                               |
| Inductance (mH)                   | 3.3                                                     | 13                                                                   | 3.3                                                                                |
| Holding Torque coils on DC (Nm)   | 2.4                                                     | 3.5                                                                  | 3.5                                                                                |
| Dynamic Torque (Nm)               | 1.7                                                     | 2.3                                                                  | 2.3                                                                                |
| Rotor Inertia (gcm <sup>2</sup> ) | 840                                                     | Allowable Axial Load (N)                                             | 15                                                                                 |
| Insulation Class                  | B                                                       | Allowable Radial Load (N)                                            | 75                                                                                 |
| Insulation Resistance             | 100MΩ, 500VDC                                           | Max. Voltage Input (VDC)                                             | 60                                                                                 |
| Weight (kg)                       | 1.5                                                     | Max. Staring Pulse Rate                                              | 3333 Pulse/ sec.                                                                   |
| Step Angle (°)                    | 1.8                                                     | Max. Slewing Pulse Rate                                              | 16666 Pulse/ sec.                                                                  |
| Pictographs / Symbols             | Hot Surface: Let device cool down before maintenance    | Operations may only be executed by qualified Electricians            | Read data and instructions carefully before initial operation                      |
| Piktogramme / Symbole             | Heiße Oberfläche: Gerät vor der Wartung abkühlen lassen | Arbeiten dürfen nur von qualifizierten Fachkräften ausgeführt werden | Lesen Sie die Daten und Anweisungen vor der ersten Inbetriebnahme sorgfältig durch |

13.03.2024