

## PRODUCT DATASHEET

# ES-CM-BL11-M001

## Coreless Brushless Miniature And Standard Series

Coreless Brushless Miniature And Standard Series | ES-CM-BL11 36 mm Coreless Brushless Motor Series

### Product Overview

Coreless Brushless Miniature And Standard Series with rated Speed 9345 rpm, continuous Rated Output Power 69 W and continuous Rated Current 3.78 A.

### Key Specifications

| PARAMETER                     | VALUE | UNIT |
|-------------------------------|-------|------|
| Rated Speed                   | 9345  | rpm  |
| Continuous Rated Output Power | 69    | W    |
| Continuous Rated Current      | 3.78  | A    |
| Duty Cycle                    | S1    |      |
| Housing Type                  | T     |      |
| Motor Body Length             | 60    | mm   |
| Motor diameter                | 36    | mm   |
| Pole Pairs                    | 1     |      |

## Technical Specifications

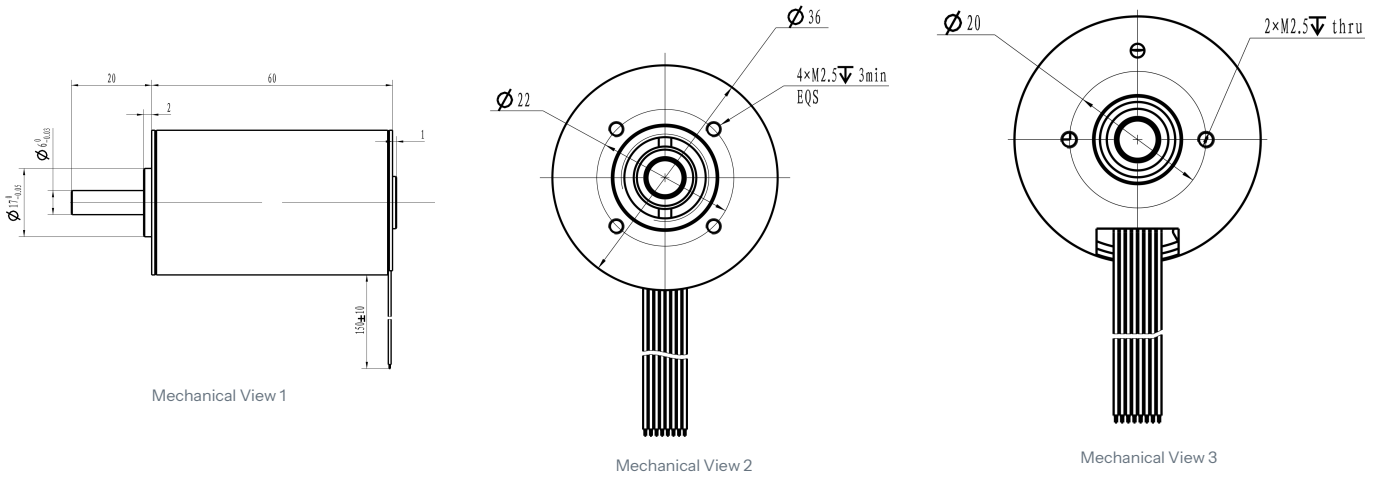
| PARAMETER                     | SPECIFICATION | UNIT | NOTES                       |
|-------------------------------|---------------|------|-----------------------------|
| PERFORMANCE                   |               |      |                             |
| Rated Speed                   | 9345          | rpm  | Drawing Variant Suffix: -20 |
| Continuous Rated Output Power | 69            | W    | Drawing Variant Suffix: -20 |
| ELECTRICAL                    |               |      |                             |
| Continuous Rated Current      | 3.78          | A    | Drawing Variant Suffix: -20 |
| Duty Cycle                    | S1            |      |                             |
| Pole Pairs                    | 1             |      | Drawing Variant Suffix: -20 |
| MECHANICAL                    |               |      |                             |
| Housing Type                  | T             |      |                             |
| Motor Body Length             | 60            | mm   |                             |
| Motor diameter                | 36            | mm   |                             |

## Dimensional & Integration Overview

### Mechanical Overview

| PARAMETER         | VALUE | UNIT |
|-------------------|-------|------|
| Housing Type      | T     |      |
| Motor Body Length | 60    | mm   |
| Motor diameter    | 36    | mm   |

### Dimensional Drawings



## 2D Drawing Dimensions & Callouts

| VIEW              | FIELD                                           | VALUE                                   |
|-------------------|-------------------------------------------------|-----------------------------------------|
| Mechanical View 1 | Output shaft diameter with tolerance            | Φ6 h7 (0/-0.03)                         |
|                   | Bearing support section diameter with tolerance | Φ17 h8 (0/-0.05)                        |
|                   | Output shaft extension length                   | 20 mm                                   |
|                   | Motor body length                               | 60 mm                                   |
|                   | Shaft step length                               | 2 mm                                    |
|                   | End cover wall thickness                        | 1 mm                                    |
| Mechanical View 2 | End face outer diameter                         | Φ36                                     |
|                   | Mounting threaded hole specification and depth  | 4 holes, M2.5 thread, minimum depth 3mm |
|                   | Threaded hole distribution pattern              | Equally spaced                          |
|                   | Bolt circle diameter                            | Φ22                                     |
| Mechanical View 3 | Front mounting flange diameter                  | Φ20                                     |
|                   | Mounting threaded holes specification           | 2×M2.5 through holes                    |

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**01** Specifications are subject to change without notice. Verify the current product configuration before final design release.

**02** 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.