

## PRODUCT DATASHEET

# ES-CM-BL09-M001

## Coreless Brushless Miniature And Standard Series

Coreless Brushless Miniature And Standard Series | ES-CM-BL09 28 mm Coreless Brushless Motor Series

### Product Overview

Coreless Brushless Miniature And Standard Series with rated Speed 9400 rpm, continuous Rated Output Power 31.5 W and continuous Rated Current 1.64 A.

### Key Specifications

| PARAMETER                     | VALUE | UNIT |
|-------------------------------|-------|------|
| Rated Speed                   | 9400  | rpm  |
| Continuous Rated Output Power | 31.5  | W    |
| Continuous Rated Current      | 1.64  | A    |
| Duty Cycle                    | S1    |      |
| Housing Type                  | T     |      |
| Motor Body Length             | 52    | mm   |
| Motor diameter                | 28    | mm   |
| Pole Pairs                    | 1     |      |

# Technical Specifications

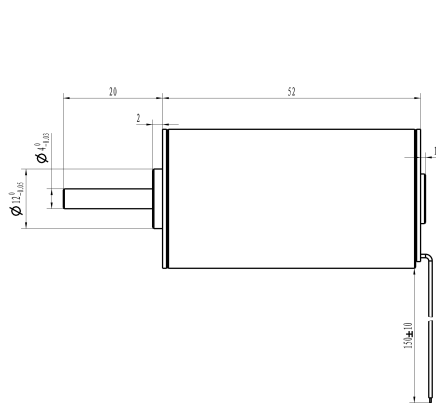
| PARAMETER                     | SPECIFICATION | UNIT | NOTES                       |
|-------------------------------|---------------|------|-----------------------------|
| PERFORMANCE                   |               |      |                             |
| Rated Speed                   | 9400          | rpm  | Drawing Variant Suffix: -19 |
| Continuous Rated Output Power | 31.5          | W    | Drawing Variant Suffix: -19 |
| ELECTRICAL                    |               |      |                             |
| Continuous Rated Current      | 1.64          | A    | Drawing Variant Suffix: -19 |
| Duty Cycle                    | S1            |      |                             |
| Pole Pairs                    | 1             |      | Drawing Variant Suffix: -19 |
| MECHANICAL                    |               |      |                             |
| Housing Type                  | T             |      |                             |
| Motor Body Length             | 52            | mm   |                             |
| Motor diameter                | 28            | mm   |                             |

## Dimensional & Integration Overview

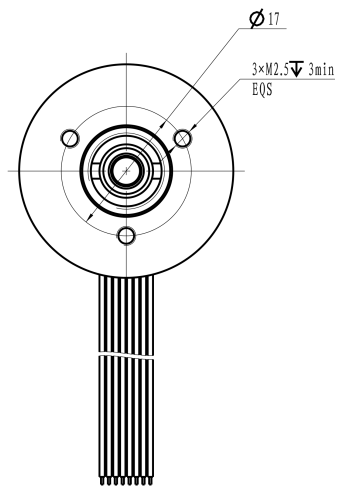
### Mechanical Overview

| PARAMETER         | VALUE | UNIT |
|-------------------|-------|------|
| Housing Type      | T     |      |
| Motor Body Length | 52    | mm   |
| Motor diameter    | 28    | mm   |

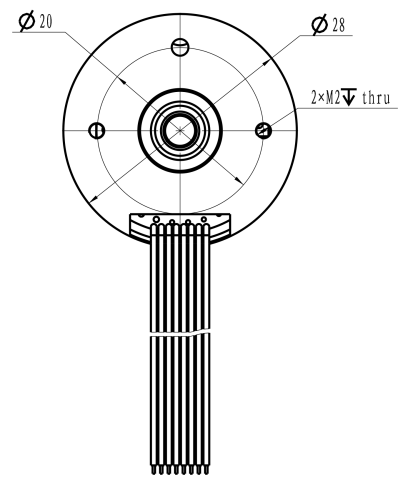
### Dimensional Drawings



Mechanical View 1



Mechanical View 2



Mechanical View 3

## 2D Drawing Dimensions & Callouts

| VIEW              | FIELD                                  | VALUE                            |
|-------------------|----------------------------------------|----------------------------------|
| Mechanical View 1 | Mounting flange length                 | 20 mm                            |
|                   | Motor body total length                | 52 mm                            |
|                   | Mounting step depth or offset          | 2 mm                             |
|                   | Left hole diameter with tolerance      | Ø4 -0.03 mm                      |
|                   | Output shaft diameter with tolerance   | Ø12 -0.05 mm                     |
|                   | Motor lead wire length with tolerance  | 150±10 mm                        |
| Mechanical View 2 | Mounting hole diameter                 | Ø17                              |
|                   | Thread specification and minimum depth | 3×M2.5, 3mm minimum thread depth |
|                   | Thread hole spacing arrangement        | Equally spaced                   |
| Mechanical View 3 | Central shaft diameter                 | Φ20                              |
|                   | Motor front face diameter              | Φ28                              |
|                   | Mounting hole specification            | 2×M2 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.