PRODUCT DATASHEET

# ES-ST-11HS2033-4D-100

Hollow Shaft Stepper Motors

Hollow Shaft Stepper Motors | 28 mm Hollow-Shaft Stepper Motor Series - ES-ST-HS03

## Product Overview

Hollow Shaft Stepper Motors with continuous Rated Current 1 A RMS, step Angle 1.8 ° and body Length 33 mm.

## Key Specifications

| PARAMETER | VALUE | UNIT |
|---|---|---|
| Continuous Rated Current | 1 | A RMS |
| Step Angle | 1.8 | ° |
| Body Length | 33 | mm |
| Motor Construction Type | Hollow Shaft Stepper Motor | |
| Frame Size | 28 | mm |
| Lead Wire Configuration | Bipolar, 4 flying leads | |
| Lead Wire Count | 4 | |
| NEMA Size | 11 | |
| Phase Count | 2 | |

# Technical Specifications

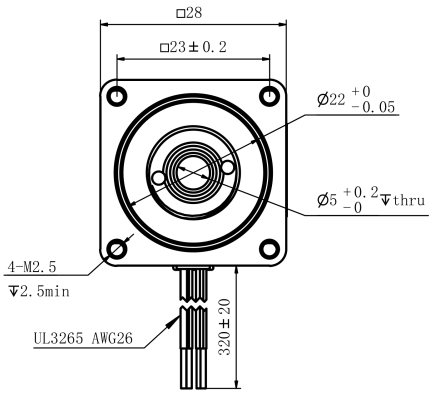
| PARAMETER | SPECIFICATION | UNIT | NOTES |
|---|---|---|---|
| **ELECTRICAL** | | | |
| Continuous Rated Current | 1 | A RMS | Measurement Basis: rms |
| Step Angle | 1.8 | ° | |
| Lead Wire Configuration | Bipolar, 4 flying leads | | |
| Lead Wire Count | 4 | | |
| Phase Count | 2 | | |
| **MECHANICAL** | | | |
| Body Length | 33 | mm | |
| Frame Size | 28 | mm | |
| Shaft Configuration | Double shaft | | |
| NEMA Size | 11 | | |
| **CONFIGURATION** | | | |
| Motor Construction Type | Hollow Shaft Stepper Motor | | |

# Dimensional & Integration Overview

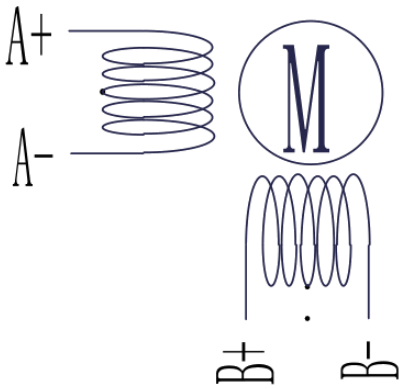
## Mechanical Overview

| PARAMETER | VALUE | UNIT |
|---|---|---|
| Body Length | 33 | mm |
| Frame Size | 28 | mm |
| Shaft Configuration | Double shaft | |
| NEMA Size | 11 | |

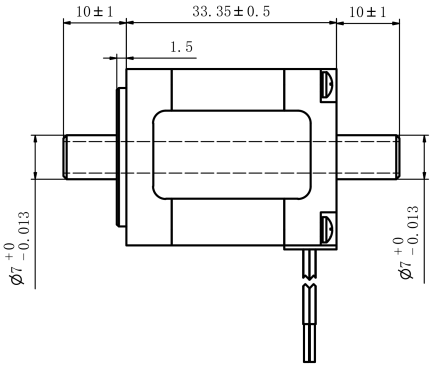
## Dimensional Drawings




Mechanical View 1




Power Connector Pinout




Mechanical View 3

## 2D Drawing Dimensions & Callouts

| VIEW | FIELD | VALUE |
|---|---|---|
| Mechanical View 1 | Square housing outer dimension | 28mm square |
| | Mounting face dimension | 23±0.2mm square |
| | Output shaft diameter | Φ22 +0/-0.05 |
| | Through hole diameter | Φ5 +0.2/-0 through hole |
| | Mounting threaded hole specification | 4× M2.5 threaded holes |
| | Minimum thread depth | 2.5mm minimum |
| Mechanical View 3 | Left end face width | 10±1 mm |
| | Motor body length | 33.35±0.5 mm |
| | Right end face width | 10±1 mm |
| | Mounting face depth or boss height | 1.5 mm |
| | Left output shaft diameter | Φ7 +0/-0.013 mm |
| | Right output shaft diameter | |
| | Datum D (left side) | Datum D |
| | Datum D (right side) | |

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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.