

PRODUCT DATASHEET

ES-ST-11HS2045-4D-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 45 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Continuous Rated Current	1	A RMS
Step Angle	1.8	°
Body Length	45	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

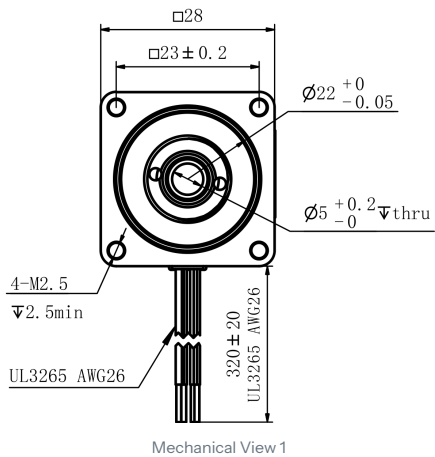
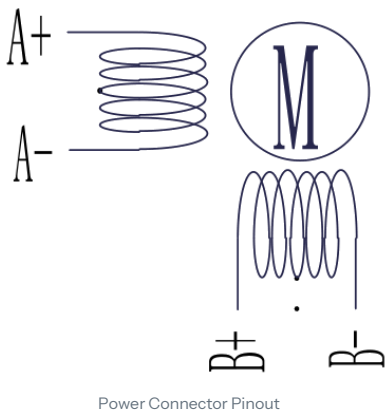
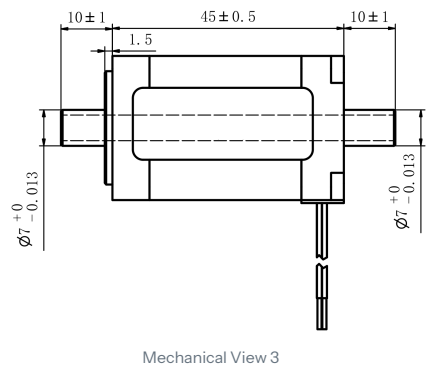
PARAMETER	SPECIFICATION	UNIT	NOTES
ELECTRICAL			
Continuous Rated Current	1	A RMS	Measurement Basis: rms
Step Angle	1.8	°	
Lead Wire Configuration	Bipolar, 4 flying leads		
Lead Wire Count	4		
Phase Count	2		
MECHANICAL			
Body Length	45	mm	
Frame Size	28	mm	
Shaft Configuration	Double shaft		
NEMA Size	11		
CONFIGURATION			
Motor Construction Type	Hollow Shaft Stepper Motor		

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	45	mm
Frame Size	28	mm
Shaft Configuration	Double shaft	
NEMA Size	11	

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Motor housing square flange size	□28
	Mounting interface square size with tolerance	□23±0.2
	Shaft diameter with upper/lower tolerance	Φ22 +0/-0.05
	Through hole diameter with tolerance	Φ5 +0.2/-0 thru
	Mounting threaded holes	4-M2.5
	Minimum depth requirement	2.5 min depth
Mechanical View 3	Left segment length	10±1 mm
	Center segment length	45±0.5 mm
	Right segment length	10±1 mm
	Step depth	1.5 mm
	Left shaft diameter with tolerance	Φ7 0/-0.013 mm
	Right shaft diameter with tolerance	

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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.