

PRODUCT DATASHEET

ES-ST-24H2085-500-4AL

Hybrid Stepper Motors

Hybrid Stepper Motors | 60 mm Hybrid Stepper Motor Series - ES-ST-HY07

Product Overview

Hybrid Stepper Motors with holding Torque 3 Nm, continuous Rated Current 5 A and step Angle 1.8 °.

Key Specifications

PARAMETER	VALUE	UNIT
Holding Torque	3	Nm
Continuous Rated Current	5	A
Step Angle	1.8	°
Body Length	85	mm
Weight	1.3	kg
Temperature Rise	80	°C
Number of Phases	2	
Phase Resistance	0.42 ±10%	Ω
Insulation Class	B	

Technical Specifications

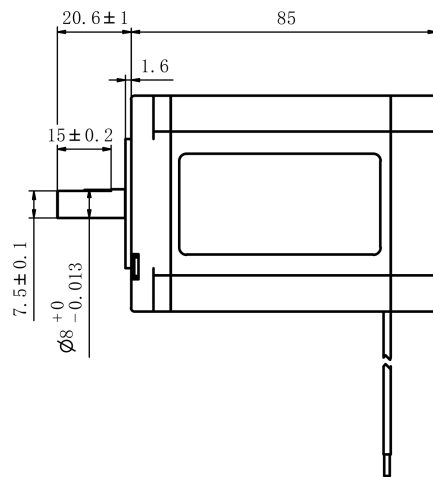
PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Holding Torque	3	Nm	
ELECTRICAL			
Continuous Rated Current	5	A	
Step Angle	1.8	°	
Temperature Rise	80	°C	
Number of Phases	2		
Phase Resistance	0.42 ±10%	Ω	Measurement: 20 °C
Phase Inductance	1.8 ±20%	mH	Measurement: 1V, 1kHz
Insulation Class	B		
Insulation Resistance	100 (500 VDC)	MΩ	
MECHANICAL			
Body Length	85	mm	
Weight	1.3	kg	

Dimensional & Integration Overview

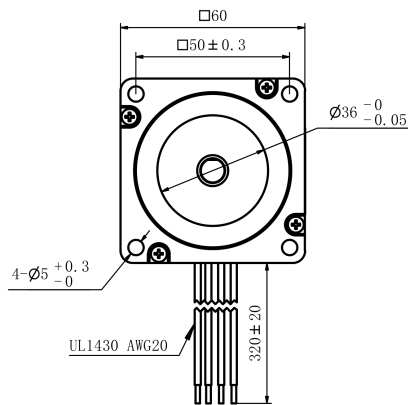
Mechanical Overview

PARAMETER	VALUE	UNIT
Body Length	85	mm
Weight	1.3	kg

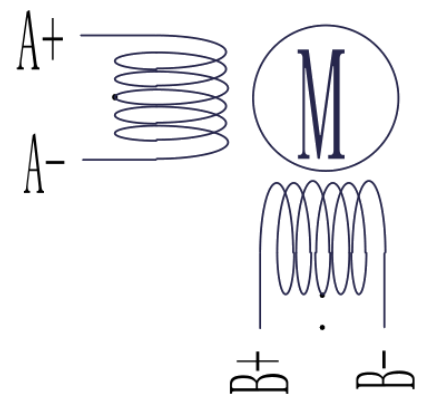
Dimensional Drawings



Mechanical View 1



Mechanical View 2



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall length	85 mm
	Mounting boss dimension	20.6±1 mm
	Mounting boss height	15±0.2 mm
	Mounting boss thickness	1.6 mm
	Mounting hole diameter with tolerance	Ø8 +0/-0.013 mm
	Mounting hole spacing	7.5±0.1 mm
Mechanical View 2	Square housing side length	□60
	Square mounting face side length	□50±0.3
	Center hole diameter	Ø36 -0/-0.05
	4 mounting holes diameter	4-Ø5 +0.3/-0
	Cable specification	UL1430 AWG20

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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.