86 Series 2 Phase Nema34 Closed Loop Stepper Motor

86 series 2 phase Nema34 closed loop stepper motor, the use of high-quality raw materials and high-standard permanent magnet silicon steel, with 1000-line high-precision encoder, completely overcome the open-loop stepper motor stepping problems, while significantly enhance the motor high-speed performance, To facilitate the traditional step-by-step drive program upgrade, cost reduction compared to servo motor to reduce more than 50%. Motor length 82mm ~ 176mm, the torque range: 3N.m ~ 12N.m, motor shaft diameter 14mm. 86 series 2 phase Nema34 closed loop stepper motor can be match for 4 type driver:RS485. Canopen. Ethercat. Pulse control drivers.

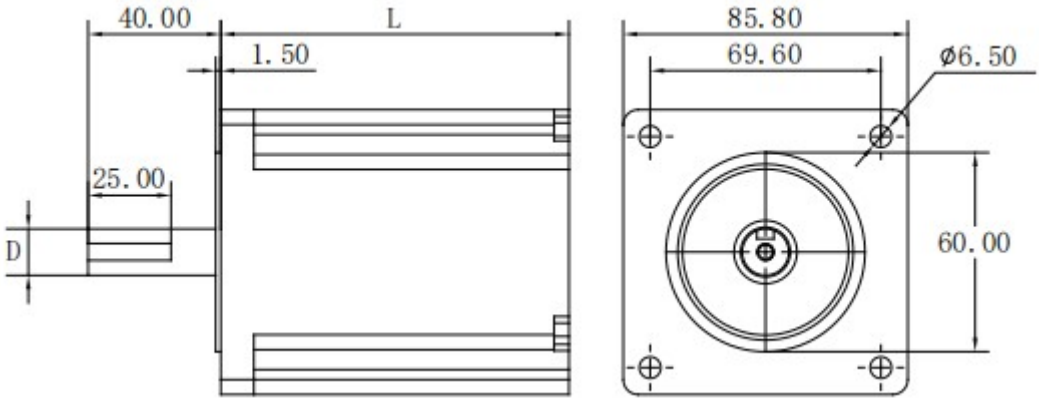
Electrical Performance Parameters

Item	Specifications
Step Angle Accuracy	±5%(Full Step)
Resistance Accuracy	±10%(20℃)
Inductance Accuracy	±20%(1KHZ)
Temperature Rise	80℃ max(rated current, 2 phase power on)
Ambient Temperature	-20℃~*50℃
Insulation Resistance	100MQMin 500VDC
Dielectric Strength	500V AC 1 minute
Allowable Radial Load	0.02mm Max. (450gload)
Allowable Thrust Load	0.08mm Max. (450gload)
Radial Max Load	130N(20mm from flange surface)
Shaft Max Load	30N

Series	Step Angle (”)	Length (mm)	Holding Torque (N.m)	Phase Current(A)	Phase Resistance (Q)	Phase Inductance(mH)	Rotational Inertia(g.cm²)	Weight (kg)	Encoder Resolution(PPR)
LC86H260	1.8	82	3.0	6.0	0.3	1.6	1100	2.0	1000
LC86H268	1.8	90	3.5	6.0	0.3	2.2	1400	2.2	1000
LC86H280	1.8	105	4.5	6.0	0.3	3.4	1800	2.5	1000
LC86H298	1.8	123	6.5	6.0	0.5	4.3	2800	3.3	1000
LC86H2114	1.8	140	8.0	6.0	0.5	3.6	2800	4.0	1000
LC86H2128	1.8	155	10	7.5	0.4	4.6	4200	4.5	1000
LC86H2150	1.8	176	12	7.5	0.5	4.7	4300	5.5	1000

Above are representative products. Products can be customized!

Shape and installation size (unit:mm)

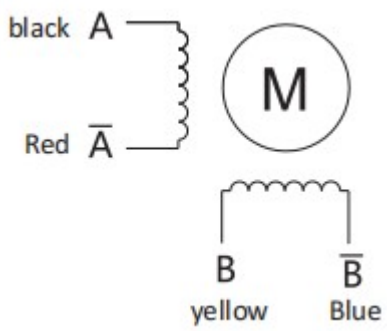


Shaft Mode of Motor

Model	Shaft Diameter(mm)	Shaft Extension(mm)	Shaft Length(mm)
LC86H260	φ14	Keyway 5x 5x 15	40
LC86H268	φ14	Keyway5x5x15	40
LC86H280	φ14	Keyway 5x 5x15	40
LC86H298	φ14	Keyway 5x5x15	40
LC86H2114	φ14	Keyway 5x5x15	40
LC86H2128	φ14	Keyway5x5x15	40
LC86H2150	φ14	Keyway 5x5x15	40

Motor Wiring Diagram

Motor Wire Colors



Definitions of Encoder Lead Colors

1	yellow	EB+
2	green	EB-
3	black	EA+
4	blue	EA-
5	Red	+5VCC
6	White	EGND

Notes

1. Phases shall be correctly connected while connecting motor and the Driver.
2. Obvious heat generation of motor may occur under different driving conditions. Surface temperature of motor is allowed to exceed 85°C during operation.
3. Motor must be positioned by installation rabbet on front cover of motor, attention shall be paid on error matching, and the concentricity between motor shaft and load shall be controlled strictly.