86HS Series 3 Phase Hybrid Stepper Motors

General Specifications

Item	Specification
Step Angle Accuracy	± 5% (whole step)
Resistance Accuracy	± 10% (20℃)
Inductance Accuracy	± 20% (1KHZ)
Temperature Rise	80°C max (Rated current, 2-phase power)
Ambient Temperature	-20°C ~ +50°C
Insulation Resistance	100M Ω Min 500 VDC
Dielectric Strength	500V AC 1 minute
Allowable Radial Load	0.02mm Max (450g load)
Allowable Thrust Load	0.08mm Max (450g load)
Radial maximum load	130N (From the flange surface 20mm)
Axial maximum load	30N

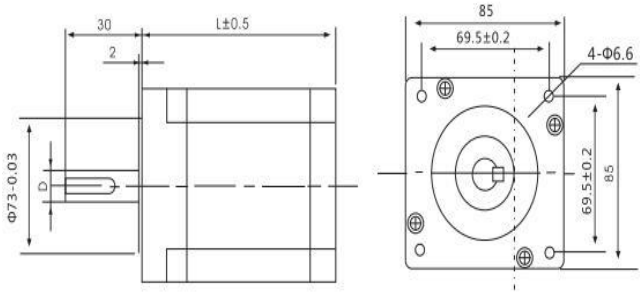
Specifications

Model	Step angle (°)	Motor length (mm)	Current (A/phase)	Resistance (Ω/phase)	Inductance (MH/phase)	Holding torque (N.M)	Rotor inertia (g.cm2)	Leads Wire No.	Weight (kg)	Matched drives
LC397-H	1.2	69	1.75	3.77	11.6	2.0	1320	3	2.0	LC3722HTC
LC397	1.2	69	5.8	0.5	0.9	2.0	1320	3	2.0	3MC580
LC39710-H	1.2	97	2.0	4.6	14.6	4.0	2400	3	3.0	LC3722HTC
LC39710	1.2	97	5.8	0.7	1.5	4.0	2400	3	3.0	3MC580
LC39713-H	1.2	125	3.0	2.0	0.8	6.0	3480	3	4.0	LC3722HTC
LC39713	1.2	125	5.8	0.9	2.17	6.0	3480	3	4.0	3MC580

Notes:

The above is only for representative products, We can according to customer requirements to remake. H means High-pressure type, suitable for high-speed,No H means Low-voltage type, suitable for low-speed.

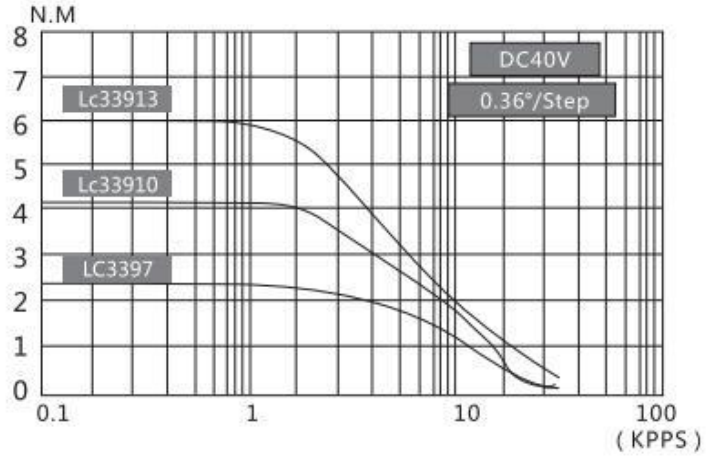
Dimensions:



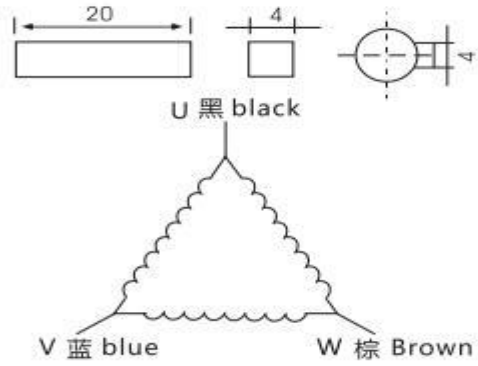
Motor Shaft :

Item	Shaft (mm)	Axis stretch (mm)	Axis length (mm)
LC397-H	12	Flat key 4x20	30
LC397	12	Flat key 4x20	30
LC39710-H	12	Flat key 4x20	30
LC39710	12	Flat key 4x20	30
LC39713-H	14	Flat key 4x20	30
LC39713	14	Flat key 4x20	30

Speed - Torque Curve Chart:



Wiring Diagram:



Note:

1. Do not connect the motor to the driver.
2. Due to different driving conditions, the motor may have a significant fever situation.
   The surface temperature of the motor is allowed to exceed 85 ° C during operation.
3. When installing the motor, be sure to use the front end cover of the motor to install the nozzle only, and pay attention to the tolerance, to ensure the concentricity between the motor shaft and the load.