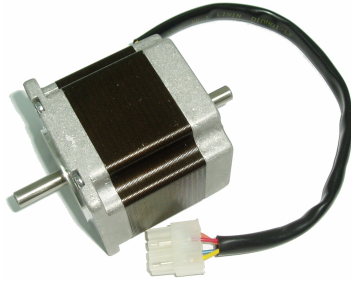




# HS8123-5040(5010) Stepping Motors



## General Specifications

Step Angle Degree	1.8°
Step Angle Accuracy	±5%(full step, no load)
Temperature Rise	80°CMax
Ambient Temperature	-10°C — +50°C
Insulation Resistance	100MΩmin.500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.06 Max.(450g-load)
Shaft Axial Play	0.08 max.(450g-load)

## Electrical Specifications

Double Shaft	Single Shaft	Holding Torque Oz-in (Nm)	Number of Leads	Phase Current (Amps)	Phase Resistance (Ohm)	Phase Inductance (mH)	Rotor Inertia Oz-in-sec <sup>2</sup> (g.cm <sup>2</sup> )	Detent Torque Oz-in (g.cm)	Weight Oz (kg)
HS8123-5040	HS8123-5010	127.44(0.9)	4	3.0	0.4±0.1	1.25±20%	0.003692(260)	5.664(408)	21.16(0.6)

\* Above motors are our typical models, and if you need a customization motor, please contact us.

## Mechanical Specifications (Unit=mm, 1 inch=25.4mm)

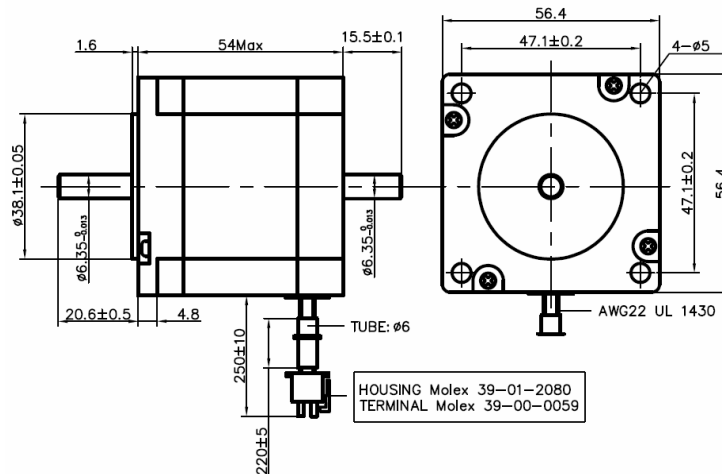


Figure 1: Mechanical specification of HS8123-5040(5010)

## Wiring Diagrams

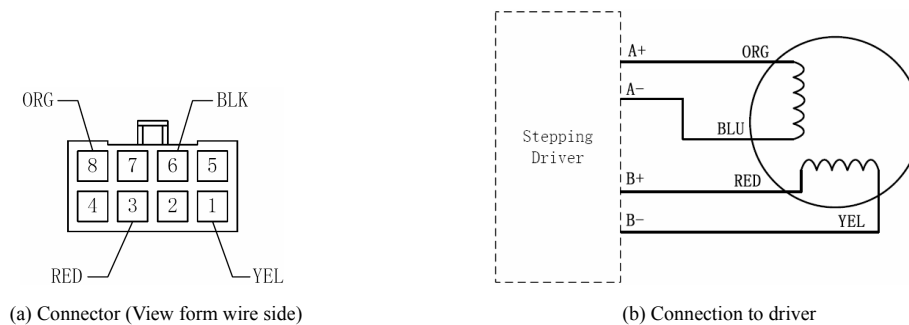


Figure 2: Wiring diagrams

## Speed-Torque Characteristics

Speed-torque curves show the maximum torques that can be output at a given speed. When selecting a motor, make sure the required torque falls



within the particular curve.

● **HS8123-5040(5010)**

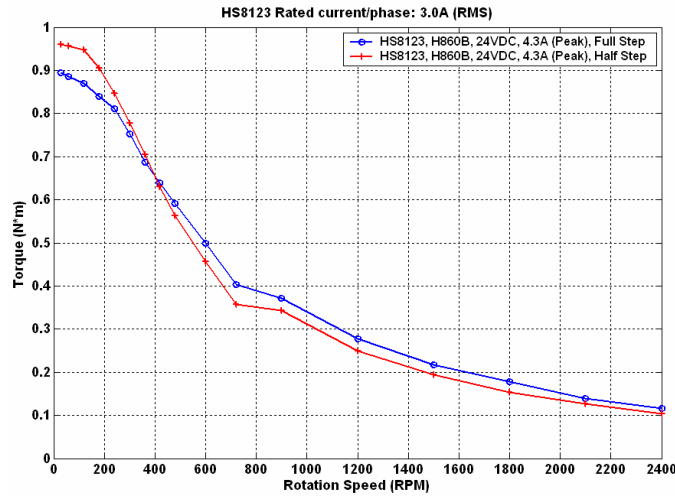


Figure 3: Speed-torque curves of the HS8123-5040(5010)

**Remarks:**

1. Title "HS8123 Rated current/phase: 3.0A (RMS)" means "The rated current/phase of the HS8123 is 3.0A (RMS) ".
2. Legend " HS8123, H860B, 24VDC, 4.3A (Peak), Half Step" means "This speed-torque curve of the HS8123 was done with the H860B driver. The settings of the H860B are 4.3A ((Peak), Half Step and use 24VDC power supply ".
3. The actual characteristics will vary depending on the driver used. Please use these curves only for reference purposes when selecting a motor. You must also conduct a thorough evaluation with the actual driver to be used. Please consult "Leadshine Motor and Driver Packages" for more information about this issue.