



Brief Introduction :

1. This ECM (Electronically Commutated Motor) is a high efficiency programmable brushless DC motor utilizing a **permanent magnet rotor** and an **external inverter**.
2. DC motor is significantly more energy efficient than AC motor and much easier to control. The energy saving is upto 65% in average compared to shaded pole motor, or 35% compared to PSC motor.
3. The motor is of long lifetime, wide range of applications and speed regulations.
4. It's generally available for products of low speed (generally less than 6000RPM).
5. It's with large rotation inertia, simple structure & not accurate starting position.
6. The standard shaft diameter (d) is $\varnothing 15\text{mm}$. **It's hollow**, can be other diameters, with D-cuts, threads, etc., and the length (L) can be any as needed.

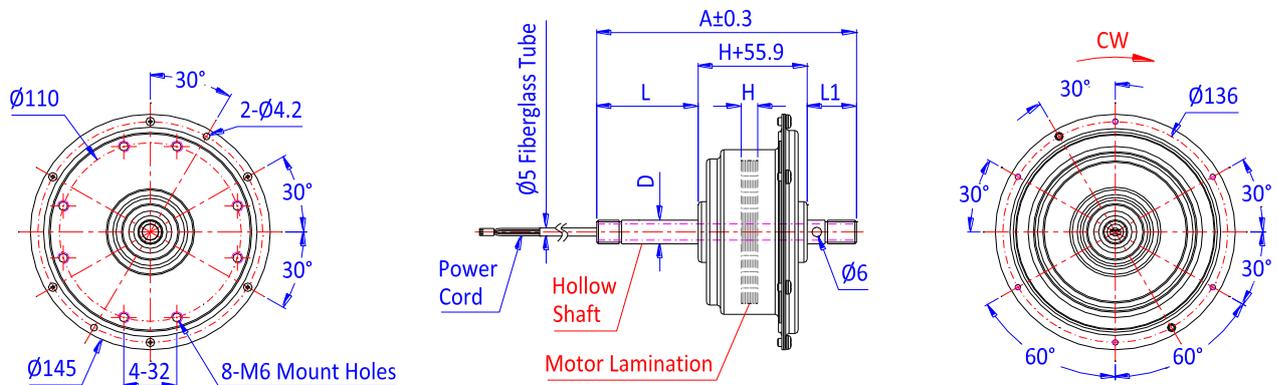
Main Characteristics :

- Motor Type: **3 Phase internal rotor** brushless motor;
- Control Driver Circuit: **External circuit**, sine wave drive (with lower noise and vibration, but the motor efficiency is also lower);
- Hall Sensor: No;
- Motor Rotation: Can be either in CW or CCW direction as needed;
- Fixing of the Fan Blade: By the 8-M6 screw holes in the front of the motor (see from the below drawing).

Typical Applications :

This motor is mostly used for **ceiling fan, decoration fan, etc.** It can also be used for other applications that need low speeds and low power.

Outline Dimensions (All dimensions in millimeter) :



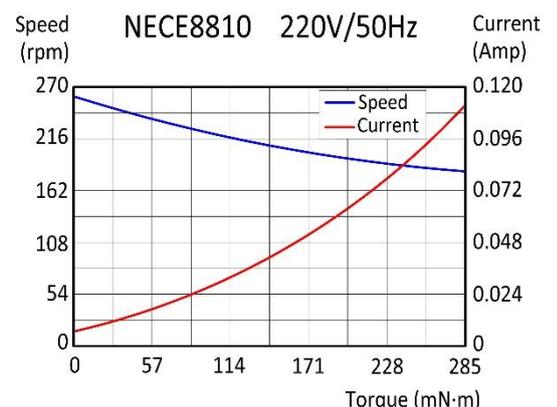
A: Shaft Total Length **D:** Shaft Diameter **H:** Lamination Height **L:** Rear Side Shaft Extended Length **L1:** Front Side Shaft Extended Length

- Remarks:** 1) Only the dimensions marked in letters are changeable as needed. Other dimensions are fixed.
2) The height and the shape of the above motor body are not changeable unless we open new moulds.

Technical Performances (tested under room temperature) :

Specs Models	Height of Stator Lamination (mm)	Rated Voltage (VAC)	Rated Freq'y (Hz)	Speed Levels /	On Load ($\pm 10\%$)		
					Input Current (Amp)	Output Speed ($\pm 5\text{RPM}$)	Input Power (Watts)
NECE8810	10	220	50	F1	0.067	175	6.5
				F2	0.091	188	9.1
				F3	0.112	201	11.8
				F4	0.131	214	14.1
				F5	0.152	227	16.4
				F6	0.225	240	26.5

Performance Curve :



Remarks: This catalog listed just some typical models. The performances as above are just for reference only. We can adjust our motor specifications according to what the customer needs. OEM & ODM are both welcome.