

With a gearbox



Brief Introduction :

1. This ECM (Electronically Commutated Motor) is a high efficiency programmable brushless DC motor utilizing a **permanent magnet rotor** and a **built-in 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 6000 RPM).
5. It's with large rotation inertia, simple structure & not accurate starting position.
6. The standard shaft diameter (d) is $\varnothing 8\text{mm}$. It can be other diameters, with D-cut, threads, etc., and the length (L) can be any as needed.

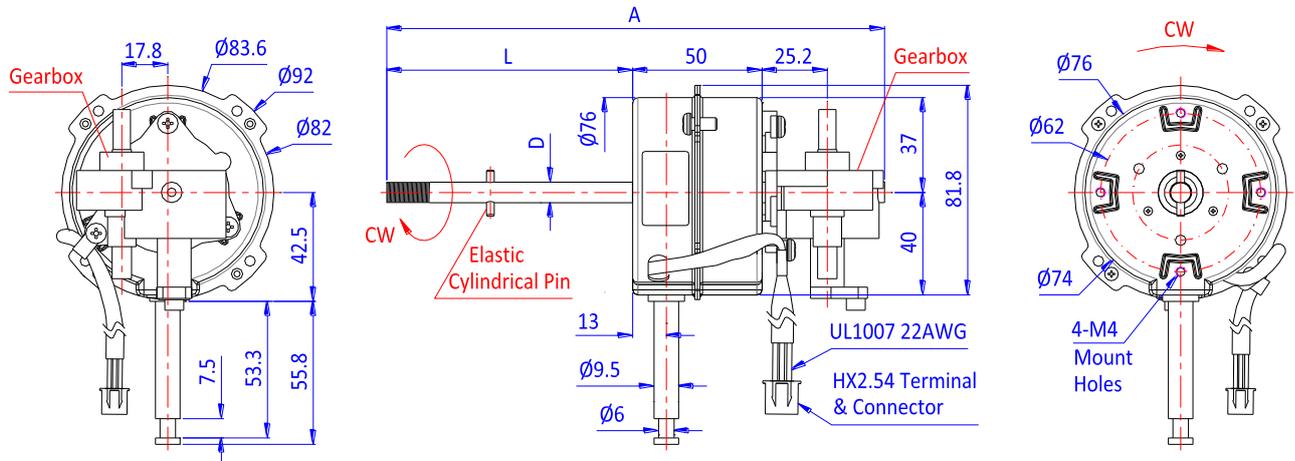
Main Characteristics :

- Motor Type: **3 Phase** external rotor brushless motor.
- Control Driver Circuit: built-in 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 Motor: By the 4 screw holes in the front metal cover of the motor (see from the below drawing).

Typical Applications :

This motor is mostly used for fans (solar powered fan, table fan, desk fan, box fan, etc.), ventilators, etc.

Outline Dimensions (All dimensions in millimeter) :



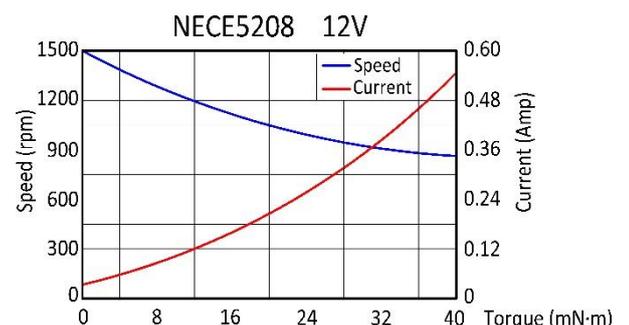
Indication of Letters: D: Shaft Diameter L: Shaft Extended Length A: Motor Body Total Length

- 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 (VDC)	Speed Level /	On Load		
				Current (Amp)	Speed (RPM)	Input Power (Watts)
NECE5208	8	12	High	0.87	1200	9.8
			Med.	0.38	830	4.1
			Low	0.27	705	3.2
NECE5210	12	12	High	2.33	1350	28.0
			Med.	1.17	1050	14.0
			Low	0.42	750	5.0

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.