

# PERMANENT MAGNET MOTOR

Our permanent magnet (PM) motor is designed to be the motors of tomorrow. Nowadays, you can find this type of motor in recent electric cars. Being built with the latest technology, the brushless electric motor has the capacity to alternate its speed. Compared to a regular AC induction motor, Topmotion PM is more efficient and quicker to respond to torque and speed without any slip or drift.

## BENEFITS

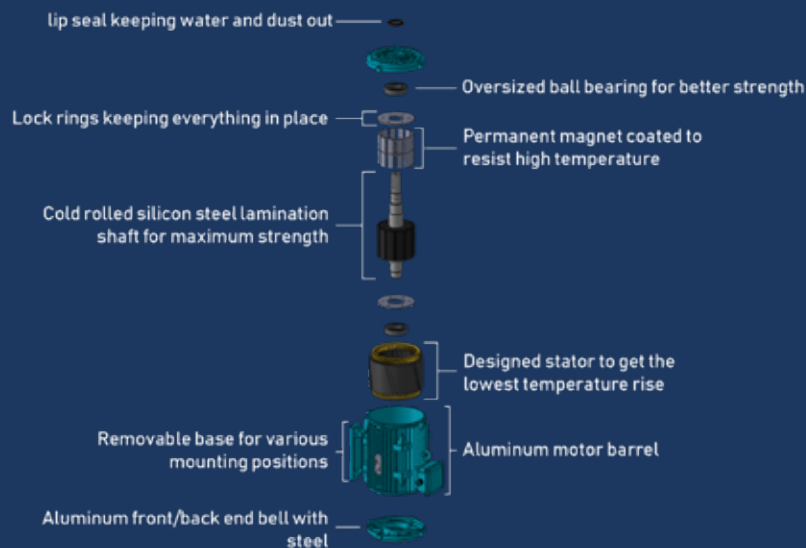
Upgrade your motor to a PM to have all its advantages, like having the ability to customize the speed and get the full torque power at low speed. One of the major benefits that most of our customers likes, it is low energy consumption due to a gearbox and clutch free build. When you choose a PM motor you have the choice to upgrade your fan to a direct drive option. Saves yourself from maintenance and risks with this alternative. It will eliminate all the extra belts and pulley that are required to operate a belt-driven fan.

## HOW DOES IT WORK?

To be able to operate a PM motor, you will need a drive. Our Variable Frequency Drive (VFD) fits perfectly with all of our range of PM. It is easy to install and it will control all electrical inputs that are going to the motor itself. The Pm is built with well-placed magnets around the rotor to reduce any friction or slipping that can occur with windings inside an AC induction motor. These problems will result in an increase in electricity consumption.

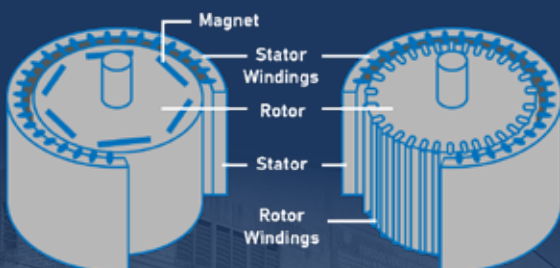
## SPECIFICATIONS

- Our magnets are coated to be able to resist up to 155°C/ 311°F
- Class F insulation system
- IP54
- Designed with 2 lip protection seals for the shaft with an extra bearing sealed
- Extra steel wear rings on both ends, an oversized shaft & bearing to get the longest durability our PM motors



Permanent Magnet

AC Induction



JOIN US AT

Topcool Ventilation Equipment Co.,Ltd  
Hengjiang Industrial Zone, Fuwan Town, Gaoming District, Foshan City, Guangdong Province,China

Post Code: 528599

Tel: 86-757-88861830

www.topcool.co

info@topcool.co

# PERMANENT MAGNET MOTOR (IE4)



# Topcool part	Drive option	RPM	Volt	Hz	KW	AMPS	Certification
27-1850-0	Belt Drive	1800	460	60	1.1	1.6	cCSAul
27-1851-0					1.5	2.2	cCSAul
27-1852-0					2.2	3.2	cCSAul
27-1853-0					3.0	4.3	cCSAul
27-1854-0					4.0	5.5	cCSAul
27-1855-0			400	60	1.1	2.5	CE
27-1856-0					1.5	1.9	CE
27-1857-0					2.2	3.6	CE
27-1858-0					3.0	4.9	CE
27-1859-0					4.0	6.3	CE
27-1891-0		230	60	1.1	3.2	cCSAul/CE	
27-1892-0				1.5	4.4	cCSAul/CE	
27-1893-0				2.2	6.3	cCSAul/CE	
27-1894-0				3.0	8.5	cCSAul/CE	
27-1895-0				4.0	11	cCSAul/CE	
27-1860-0	Direct Drive	600	460	60	1.1	1.8	cCSAul
27-1861-0					1.5	2.3	cCSAul
27-1862-0					2.2	3.3	cCSAul
27-1863-0					3.0	4.5	cCSAul
27-1864-0					4.0	5.9	cCSAul
27-1865-0			400	60	1.1	1.9	CE
27-1866-0					1.5	2.6	CE
27-1867-0					2.2	3.7	CE
27-1868-0					3.0	5.0	CE
27-1869-0					4.0	6.5	CE
27-1896-0		230	60	1.1	3.5	cCSAul/CE	
27-1897-0				1.5	4.7	cCSAul/CE	
27-1898-0				2.2	6.7	cCSAul/CE	
27-1899-0				3.0	9.0	cCSAul/CE	
27-1900-0				4.0	12.0	cCSAul/CE	