

Part No: EN-5KW-170R-96V

Description: The EN-5KW-170R-96V AC three phase permanent magnetic generator(PMG) provide best magnetic flux density with less air gap. It requires no system for the provision of field current. It is highly reliable. It contains any means for controlling the output voltage. Typically used for HAWT&VAWT wind turbine, hydro turbine where the generator output of variable voltage and frequency is supplied to a power system through an electronic frequency converter.



Design

- 1) EN-5KW-170R-96V with multi poles in PMG, improved the power efficiency at low speed and solved unstable output voltage problem, also saved the cost. They are widely used for direct-drive horizontal axis or vertical axis wind turbines.
- 2) The best efficiency of ENGELEC PMG is over 96%.
- 3) Reasonable structure and low starting torque, solved the difficult start-up problem at low speed
- 4) Brushless, no excitation winding and control box, simple structure, no sparks, high reliability.
- 5) Imported high-speed bearing with oil-containing, which is maintenance-free, highly reliable and has long motor life.

Advantage



Size

Small size, light weight and high energy density

Service Life

IP54 protection, 20 years long life span

Reliable

High strength rotor, the motor can reach high rotate speed

Cooling

Natural Air cooling, also can add a fan

Material

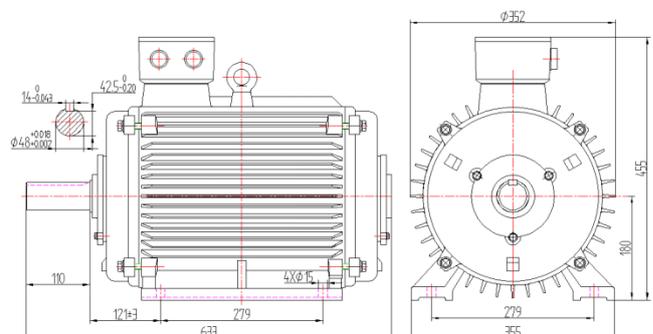
Full copper winding, NdFeB magnet rotor

Feature

EN-5KW-170R-96V PMG

Rated power	: 5000W
Rated rotate speed	: 170RPM
Frequency	: 40Hz
Rated torque	: 305Nm
Rated voltage	: 96VAC
Rated Current	: 39A
Start-up torque	: <6Nm
Weight	: 160Kg
Installation	: Horizontal
Magnet	: NdFeB
Frame No.	: Y180

EN-5KW-170R-96V Drawing



* PMG performance is subject to many factors. All output data contained in this document is indicative and actual turbine outputs will depend on the prevailing site and installation conditions.

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