Y-type connection method for wind power permanent magnet direct drive generator

This study introduces a constrained many-objective optimization approach for the optimal design of 20 MW direct drive (DD) permanent magnet synchronous generators (PMSGs).

In this paper, an axial flux permanent magnet generator for a 30 kW direct drive wind turbine is designed and the design parameters were optimized with the aim of achieving high efficiency.

Direct drive wind energy conversion tends to decrease the system size, weight, and noise. This paper focus on the low-speed direct drive permanent magnet generator, for wind...

In this paper, an accurate two-dimensional analytical model for calculating the magnetic vector potential in brushless permanent magnet machines is presented, taking into account the effect ...

In the recent studies, it has shown that the AFMs are very attractive and cost-effective alternatives for Radial Flux machines (RFMs) especially for applications such as small wind power system, aircrafts, ...

According to diferent comparisons, discussions and presentations of the direct drive generators given in the literature; our choice is focused on the design of a sur-face permanent magnet synchronous ...

Force due to permanent magnets near the iron parts. Manufacturing tolerances contribute to these inherent forces whereby assembly of such machines can be very challenging.

It is proposed to add a set of auxiliary winding to the traditional permanent magnet synchronous generator to form a six-phase permanent magnet direct drive generator, and the auxiliary winding ...

Word origin C14: from Scottish -ie, -y, familiar suffix occurring originally in names, as in Jamie (James)

This review paper captures the fact that recent advancements in design optimization of Permanent Magnet Synchronous Generator (PMSG) for wind turbine systems are able to deliver ...

Y meaning: 1 : the 25th letter of the English alphabet; 2 : used to represent especially a second unknown quantity

An optimization method with three objectives: total power loss, weight, and torque ripple, and with one constraint for a minimum acceptable value for the power factor, is described. The design examples ...

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