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Modeling the magnet electric power planning as the alternative energy

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Abstract

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Abstract:

Neodymium magnets are permanent magnets, which have high strength. Magnets can exert a force push or repel as powerful motor. The method in this study through the stages in the preparation of materials and research tools. Magnet is used N42 grade neodymium magnet with a diameter of 12.5 mm, thickness 1.5 mm thick composed of six pieces so that the whole 9 mm. In the attached magnet stator magnets are 48 pieces divided in 2 rows with the north pole facing into, and the magnet attached dictator a divided by 44 pieces also in the second row with the north pole facing out. The position of the stator magnet attached at an angle of 25° facing perpendicular magnetic rotor with 5 mm distance between the poles. Houses magnet drilled at an angle of 25° as deep as 9 mm, to install as many as 40 holes magnet is divided into 2 rows aligned with the row spacing of 15 mm. The results obtained by the occurrence of a failure in the magnetic shield systems to reduce the magnetic field, so it has been done in the selection of formulation shield Co-netic AA-Alloy, with the hypothesis magnet motor will work with power of 0.173 kW, torque of 1.81 Nm and motor rotation speed of 911 rpm.

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1. Introduction

Electrical energy demand in Indonesia is needed, and the government should subsidize the operation so that the community can be met. In Indonesia is still very lacking supplies of energy resources, so that frequent electric power crisis that occurs mainly remote and isolated areas. Magnetic power generation is an alternative energy development, to maximize the potential energy that can be used as well as the full use of energy but operating costs are very small, a power advantage is. By utilizing the energy of the magnetic poles repel without additional charge at each operation. Achievement of the preservation of nature can also be maintained as independent power product the pollution.

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