

Linked Electromagnetic and Thermal Modelling of a Permanent Magnet Motor

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Abstract

This paper studies the thermal modelling of a permanent magnet motor using linked commercial design packages. The electromagnetic design is carried out using *SPEED* PC-BDC, from The University of Glasgow while the thermal simulation, to verify the thermal integrity of the machine, is carried out using *Motor-CAD*, from Motor Design Ltd. These two design procedures are often carried out separately but this illustrates that, in the modern Windows environment, it is often possible to link packages together and bring a step-change to the sophistication of the design procedure. The results are verified experimentally.

1 Introduction

The thermal modelling of electrical machines is still a very specialized and, to some extent, an inexact process. It is however an important process since the limit of operation of the machine is often due to the thermal limits. There are several books available which address the overall design of permanent-magnet electric machines [1]-[3] although the electromagnetic and magnetic material aspects rather than the thermal aspects take priority (but they are addressed). Many designers will set the temperatures of the machine (i.e., the winding, magnet, steel, etc. temperatures) to realistic values then carry out an electromagnetic design. This design process relies on the designer having a realistic knowledge of what the losses can be allowed in the machine, i.e., the maximum copper losses (possibly by allowing a maximum winding current density of about 5 to 7 A/mm²) and iron losses (not allowing flux density levels higher than 1.7 to 1.9 T or even higher for low loss or high flux steels). Once the electromagnetic design is complete the cooling system will be designed to cope with the losses produced.

Commercial software packages are now available for the electromagnetic design – e.g. PC-BDC [4]. They have some thermal modelling capabilities (multi-node network of up to 10 nodes) that can help with the initial sizing. For more sophisticated thermal modelling a software package dedicated to the thermal analysis of electrical machines can be used, e.g. *Motor-CAD* [5]. Both packages run under the Windows OS and have full ActiveX capabilities. ActiveX is a standard method for linking programs together and transferring data.

There is a dedicated link written using ActiveX technology to transfer geometric, loss and temperature data between the two programs. Macros can also be written in separate programs such as MATLAB or VBA to call both PC-BDC and *Motor-CAD*. This is often done for more complex calculations such as automated optimisation, sensitivity analysis and the modelling of complex dynamic loads.

2 Example Machine

The machine took the form of a 6-pole brushless permanent-magnet servo motor. The machine operated under ac control. The machine was tested using the fitted thermocouples. The specification of the machine is given below together with the experimental results.

2.1 motor specification

The cross-section of the machine is given in Fig 1. This is obtained from *SPEED* PC-BDC from The University of Glasgow. It takes the form of a 6-pole brushless servo motor with surface mounted SmCo magnets. The winding is 3-phase with 3 coils per phase giving a single layer winding with a coil pitch of 2 slots. The rated current was 6.1A and the speed fixed at 2600rpm. The frame size was 115 with an axial core length of 74mm.

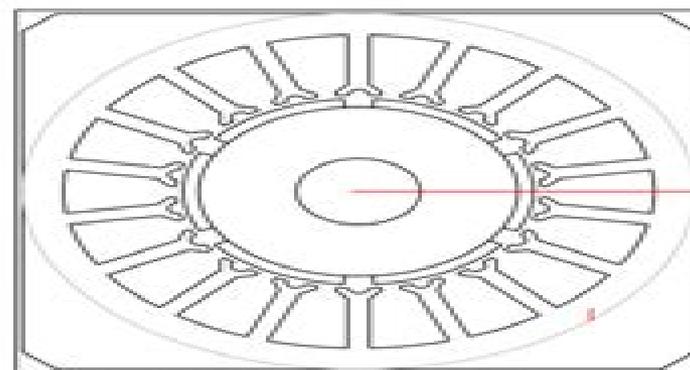


Fig. 1: Machine cross section from PC-BDC

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Table of Contents Electromagnetic And Thermal Modeling Of A Permanent Magnet

1. Understanding the eBook Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - The Rise of Digital Reading Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Advantages of eBooks Over Traditional Books
2. Identifying Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - User-Friendly Interface

4. Exploring eBook Recommendations from Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Personalized Recommendations
 - Electromagnetic And Thermal Modeling Of A Permanent Magnet User Reviews and Ratings
 - Electromagnetic And Thermal Modeling Of A Permanent Magnet and Bestseller Lists
5. Accessing Electromagnetic And Thermal Modeling Of A Permanent Magnet Free and Paid eBooks
 - Electromagnetic And Thermal Modeling Of A Permanent Magnet Public Domain eBooks
 - Electromagnetic And Thermal Modeling Of A Permanent Magnet eBook Subscription Services
 - Electromagnetic And Thermal Modeling Of A Permanent Magnet Budget-Friendly Options
6. Navigating Electromagnetic And Thermal Modeling Of A Permanent Magnet eBook Formats
 - ePub, PDF, MOBI, and More
 - Electromagnetic And Thermal Modeling Of A Permanent Magnet Compatibility with Devices
 - Electromagnetic And Thermal Modeling Of A Permanent Magnet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Highlighting and Note-Taking Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Interactive Elements Electromagnetic And Thermal Modeling Of A Permanent Magnet
8. Staying Engaged with Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electromagnetic And Thermal Modeling Of A Permanent Magnet
9. Balancing eBooks and Physical Books Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electromagnetic And Thermal Modeling Of A Permanent Magnet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Setting Reading Goals Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Fact-Checking eBook Content of Electromagnetic And Thermal Modeling Of A Permanent Magnet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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