

Linked Electromagnetic and Thermal Modelling of a Permanent Magnet Motor

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Keywords: Permanent magnet motor, cooling, thermal modelling.

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.

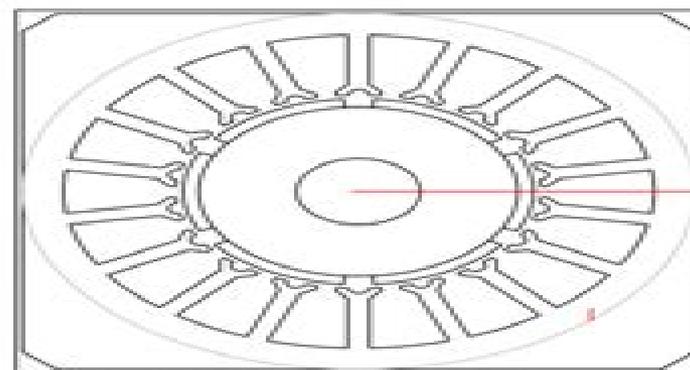


Fig. 1: Machine cross section from PC-BDC

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