1997 IEEE INTERNATIONAL ELECTRIC MACHINES AND DRIVES CONFERENCE RECORD

Analysis of short-circuit transients of a PM machine

Goldemberg, C. Lebensztajn, L. Lobosco, O.S.

Escola Politecnica, Sao Paulo Univ., Brazil;

This paper appears in: Electric Machines and Drives Conference

Record, 1997, IEEE International

Abstract:

Transient analysis of a six-phase 100 HP permanent-magnet machine is made under two situations: a simultaneous short-circuit on 6 phases and a single phase short-circuit. The demagnetization stress on the magnets can be evaluated combining the results of dynamic simulations with a finite-element analysis program