



Variable Magnetization Machine Controller

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Inventors: Robert Lorenz, Chen-Yen Yu, Takashi Fukushige

The Invention

A variable magnetization machine controller has a current command module, a magnetization module and a reducing current module. The current command module computes a vector current command in a dq axis based on a torque command. The magnetization module applies a magnetization control pulse to a d-axis current of the vector current command. Thus, the reducing current module applies a reducing current to a q-axis current of the vector current command based on the torque command and one of an estimated torque of the variable magnetization machine and a measured torque of the variable magnetization machine.

Tech Fields

- [Engineering : Electric machines](#)

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867