

عنوان مقاله:

Common mode Voltage Reduction in a Flying Capacitor Inverter

محل انتشار:

اولین کنفرانس بین المللی الکترونیک قدرت و سیستم های درایو (سال: 1388)

تعداد صفحات اصل مقاله: 6

نویسندگان:

Arasteh - *Electrical Engineering Department, Iran University of Science & Technology, Iran*

Rahmati - *Electrical Engineering Department, Iran University of Science & Technology, Iran*

Farhangi - *Electrical Engineering Department, Iran University of Science & Technology, Iran*

Abrishamifar - *Electrical Engineering Department, Iran University of Science & Technology, Iran*

خلاصه مقاله:

This paper investigates the common mode voltage in multilevel DTC drives and proposes a new algorithm for multilevel flying capacitor drives to reduce its common mode voltage. The new algorithm uses only those voltage space vectors which lead to lower common mode voltage. The simulation results in MATLAB/SIMULINK verify the capability of the algorithm in reducing the common mode voltage without degrading the electromagnetic torque and speed response.

کلمات کلیدی:

common mode voltage, flying capacitor inverter, direct torque control

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/152770>

