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Practical V Permanent Active Flux

By: Ancuti, MC (

(Andreescu, Ghe

Boldea, I (Boldea

View Researcher

ELECTRIC POW

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Abstract

This article introd
range with senso
synchronous mot
torque limited by
approximates the
region, where vol
computational eff

(50-3000rpm at low inverter available DC voltage of 12V(dc) instead of 48V(dc)) demonstrate the effectiveness of the proposed sensorless control strategy in a wide speed range, with stable and reliable operations up to a speed equal to eight times the machine base speed (constant power speed range = 8).

Keywords

Author Keywords: AC drives; active flux observer; permanent magnet synchronous motor; sensorless control; state estimation; vector control; wide speed range

KeyWords Plus: FIELD-WEAKENING REGION; IPMSM DRIVES; TORQUE; OPERATION; SATURATION; DESIGN

Author Information

Reprint Address: Andreescu, GD (reprint author)

+ Politehn Univ Timisoara, Dept Automat & Appl Informat, 2 Vasile Parvan Blvd, Timisoara 300223, Romania.

Addresses:

+ [1] Politehn Univ Timisoara, Dept Elect Engr, Timisoara 300223, Romania

+ [2] Politehn Univ Timisoara, Dept Automat & Appl Informat, Timisoara 300223, Romania

+ [3] Aalborg Univ, Inst Energy Technol, Aalborg, Denmark

E-mail Addresses: daniel.andreescu@aut.upt.ro

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