

Title (en)

ACTIVE DAMPING CONTROL OF AN ELECTRICAL CONVERTER WITH A RESONANT OUTPUT FILTER

Title (de)

AKTIVE DÄMPFUNGSTEUERUNG EINES ELEKTRISCHEN UMRICHTERS MIT EINEM RESONANZAUSGANGSFILTER

Title (fr)

COMMANDE ACTIVE D'AMORTISSEMENT D'UN CONVERTISSEUR ÉLECTRIQUE AVEC UN FILTRE DE SORTIE RÉSONANT

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Application

EP 15715229 A 20150407

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Abstract (en)

[origin: WO2015155183A1] An electrical converter (10) comprises at least one output phase (16) connected via a electrical filter (20) with an electrical grid (22) or an electrical machine. A method for controlling the electrical converter (10) comprises: receiving a control reference (24) for the electrical converter; determining voltages and/or currents (26) in the electrical converter; determining switching positions (u) for semiconductor switches (14) of the electrical converter from the control reference (24) and the determined voltages and/or currents, based on model predictive direct control (32) such that a deviation from the control reference is minimized; and actively damping oscillations in the at least one output phase caused by the electrical filter.

IPC 8 full level

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CPC (source: EP)

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