

Title (en)
SYSTEM CONFIGURED TO DELIVER A POLYPHASE CURRENT OF CONSTANT FREQUENCY FROM A SYNCHRONOUS GENERATOR

Title (de)
SYSTEM ZUR LIEFERUNG EINES MEHRPHASENSTROMS MIT KONSTANTER FREQUENZ AUS EINEM SYNCHRONGENERATOR

Title (fr)
SYSTÈME CONFIGURÉ POUR DÉLIVRER UN COURANT POLYPHASÉ DE FRÉQUENCE CONSTANTE À PARTIR D'UNE GÉNÉRATRICE SYNCHRONE

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Application
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Abstract (en)
[origin: WO2020183102A1] The invention relates to a system (1) configured to deliver as output a polyphase current of constant frequency from a synchronous generator (2) driven at variable speed, said system successively comprising, at the output of said generator, an AC-to-DC active rectifier (3) including one arm per phase of the current, a DC bus (4) and a DC-to-AC inverter (5) for the output of said system comprising one arm per phase of the current, the inverter or the DC bus comprising an arm connected to the neutral (8), each arm including a controllable switch (6), said system comprising an electronic control unit driving said rectifier and comprising means for tracking a voltage for the rectifier and/or the inverter and means for controlling said inverter, said system including an EMC filter (9) at the output of said inverter, said filter including one arm for each phase of the current, each arm comprising an inductor (10), a capacitor (11) connected in a bypass downstream of said inductor, the arm connected to the neutral being connected to each bypass.

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