

Multi-motor concept for watercraft drivetrain applications

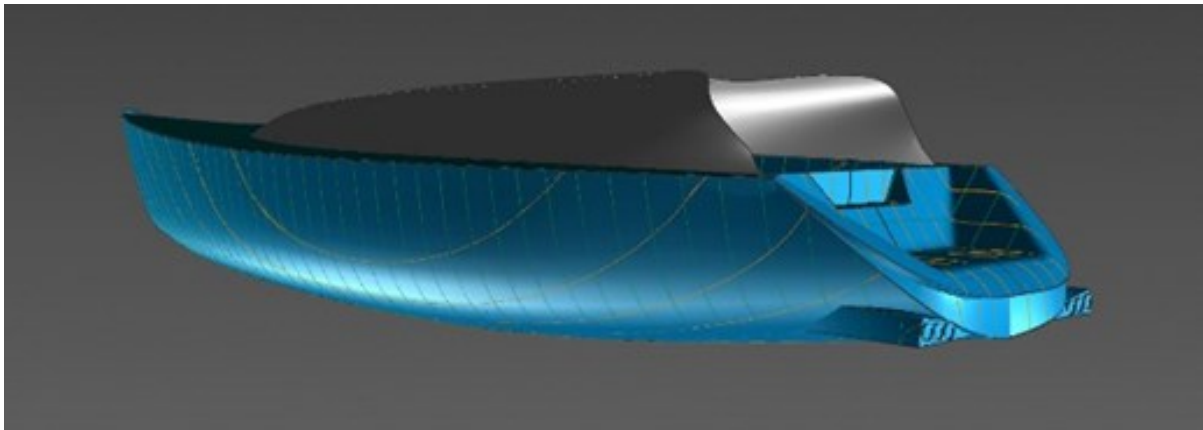
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Abstract -- This paper presents an innovative solution in relation to the actual problems in modern transport by showing the advantages of electric drives, in particular of Flux Barrier Machines (FBM), in combination with the multi-motor drive concept (MMD) for watercraft drivetrain applications. A solution for the so-called R.I.P. problems, Range – Infrastructure – Price, is shown with the new concept of the FBM low voltage drive topology within this paper. In addition, further advantages in maneuverability of MMD in combination with omitting the rudder respectively the steering gear are described.

Keywords— Flux Barrier Machine (FBM), multi motor drive, low costs, low voltage, high efficiency, watercraft drivetrain, cost optimizing



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