

Title (en)
MOUNTING SEQUENCE FOR ELECTRIC AXLES (E-AXLE SYSTEM)

Title (de)
MONTAGESEQUENZ FÜR ELEKTRISCHE ACHSEN (EACHSE SYSTEM)

Title (fr)
SÉQUENCE DE MONTAGE POUR ESSIEUX ÉLECTRIQUES (SYSTÈME E-ESSIEU)

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Application
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Abstract (en)
[origin: WO2022228796A1] The invention relates to a method for mounting an electric axle module (10) comprising an electric machine (18), power electronics (34) and a transmission (48), said method involving the following consecutive steps: joining a pre-assembled rotor assembly (20) to a system housing (12); joining a pre-assembled stator assembly (32) to the system housing (12); joining pre-assembled power electronics (34) to the pre-assembled system housing (42) equipped with a rotor assembly (20) and a stator assembly (32) and establishing an electric connection between the power electronics (34) and the system housing (42); testing the electrically interconnected components, i.e. the pre-assembled system housing (42) with the electric machine (18) and the pre-assembled power electronics (34), as a testable electric axle module (62) before complementing the electric axle module (62) with the transmission (48). The invention further relates to the use of the mounting method for manufacturing an electric axle module (10) of an electrically driven vehicle.

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