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topology of hybrid synchronous machineTHE HYBRID-SYNCHRONOUS MACHINE OF THE NEW BMW i3 & i8 CHALLENGES WITH ELECTRIC TRACTION DRIVES FOR VEHICLES WORKSHOP UNIVERSITY LUND Dr.-Ing. J. Merwerth BMW Group, München BMW i3. VEHICLECONCEPT. Maximum speed v max: 150 km/h Acceleration 0-100 km/h: 7,2 s Range KV01 cycle: 190 km FTP72 cycle: 225 km (140 mls) Vehicle weight m Fzg: 1195 kgTHE HYBRID-SYNCHRONOUS MACHINE OF THE NEW BMW i3 & i8A hybrid synchronous electric machine driven by transverse flux has a rotor and a stator, the rotor armature (11) of which comprises a heavy copper ring (12) close to the motor active components and is a component of the rotor. The toothed iron rings (14, 15) have transverse insulation gaps (22). Eddy currents generated in the iron rings (14, 15) are blocked by the insulating gaps (22) formed ...JPWO2003007459A1 -Hybrid synchronous electric machine ... Hybrid excitation synchronous machine (HESM), as a novel embranchment of permanent magnet synchronous machine

(PMSM), which has been drawn extensive attentions in recent years since it incorporates the merits of PMSM with the possibility of controllable flux by auxiliary excitation windings.Hybrid excitation synchronous machine adaptive speed ... The present invention relates to a hybrid excitation-type synchronous machine, which includes a field coil and permanent magnets to generate field magnetic flux of a rotor. BACKGROUND OF THE...US20090295249A1 -Hybrid-type synchronous machine - Google ... The Hybrid Excitation PMSM block represents a hybrid excitation synchronous machine with a threephase wye-wound stator. Permanent magnets and excitation windings provide the machine excitation. The figure shows the equivalent electrical circuit for the stator and rotor windings.Hybrid excitation synchronous machine with three-phase wye ...(2017). Synchronous Machine Parameters Evaluation with a Hybrid Particle Swarm Optimization Algorithm. Electric Power Components and Systems: Vol. 45, No. 17, pp. 1962-1971.Synchronous

Machine Parameters Evaluation with a Hybrid ...Synchronous Machine Synchronous Machine constitutes of both synchronous motors as well as synchronous generators. An AC system has some advantages over DC system. Therefore, the AC system is exclusively used for generation, transmission and distribution of electric power.What is a Synchronous Machine? its Basic Principles ...Synchronous machines are commonly used as generators especially for large power systems, such as turbine generators and hydroelectric generators in the grid power supply. Because the rotor speed is proportional to the frequency of excitation, synchronous motors can be used in situations where constant speed drive is required. Chapter 6. Synchronous MachinesA synchronous electric motor is an AC motor in which, at steady state, the rotation of the shaft is synchronized with the frequency of the supply current; the rotation period is exactly equal to an integral number of AC cycles. Synchronous motors contain multiphase AC electromagnets on the

3

stator of the motor that create a magnetic field which rotates in time with the oscillations of the line current. The rotor with permanent magnets or electromagnets turns in step with the stator field at the sSynchronous motor - WikipediaMichel Lécrivain. Hybrid excitation synchronous machines are electric machines with two excitation circuits, one with permanent magnets and another wound. The study presented in this paper ...(PDF) Overview of hybrid excitation synchronous machines ...This study deals with the modelling and the control of the hybrid excitation synchronous machine connected to a diode bridge rectifier. The set operates as a DC generator that supplies an isolated grid in embedded applications such as aircraft electrical power generation. The elaborated model includes the magnetic circuit saturation effect.IET Digital Library: Control of a hybrid excitation ...Fundamental Principle of Hybrid Excited Synchronous Machines Hybrid excited synchronous machines are those which use two excitation flux sources: permanent magnets (PM)

as well as field coil excitation source. The goal behind the association of both sources is to combine the advantages of both PM machines and wound field synchronous machines.On the Use of Hybrid Excited Synchronous Machines (HESM ... This thesis is a contribution to the control of the Hybrid Excitation Synchronous Machine (HESM) in embedded applications. The HESM combines the advantages of the Permanent Magnets (PM) machine and the wound rotor machine. The excitation flux in this machine is produced by two different sources: the PMsContribution to the Control of the Hybrid Excitation ... In order to realize the magnetic flux control easily and improve the performance of the conventional synchronous machine, we propose a hybrid excitation type synchronous machine (HSY) with the permanent magnets and the field winding. Advantages of HSY are (1) it has no brushes (maintenance free), (2) required excitation input is small (high ... Basic principles and characteristics of hybrid excitation ... Hybrid excitation synchronous machines (HESMs) are electric machines that use

4

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DRIVES FOR VEHICLES WORKSHOP UNIVERSITY LUND Dr.-Ing. J. Merwerth BMW Group, München BMW i3. VEHICLECONCEPT. Maximum speed v max: 150 km/h Acceleration 0-100 km/h: 7,2 s Range KV01 cycle: 190 km FTP72 cycle: 225 km (140 mls) Vehicle weight m Fzg: 1195 kg Synchronous motor -Wikipedia This thesis is a contribution to the control of the Hybrid Excitation Synchronous Machine (HESM) in embedded applications. The HESM combines the advantages of the Permanent Magnets (PM) machine and the wound rotor machine. The excitation flux in this machine is produced by two different sources: the PMs

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7

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