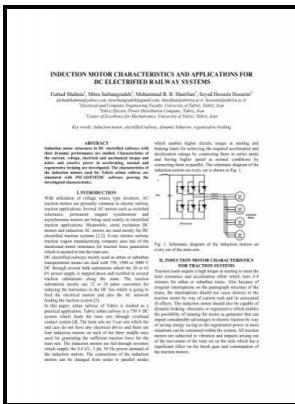


Control system for a GTO voltage source inverter induction machine for railway traction

University of Birmingham - US4150324A



Description:

- control system for a GTO voltage source inverter induction machine for railway traction
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IEEE Trans Power Electron 32 5 :3935—3945. Estima JO, Cardoso AJM 2011 A new approach for real-time multiple open-circuit fault diagnosis in voltage-source inverters.

Speed Control of Three Phase Induction Motor

But, as soon as the increasing saw-tooth wave signal B reaches the accelerator signal level V_a, the output of the comparator 54 rapidly falls to a low level by the action of the positive feedback resistor 66 and this low level is maintained until the saw-tooth wave signal falls down. Such a monostable multivibrator suffers from failure of accurate control for the duty factor since transistors are sensitive to temperature and ambient disturbance and for this reason, they are unstable. Usually, these pulses are formed from a pulse produced by a monostable multivibrator.

Speed Control of Three Phase Induction Motor

Li Z, Ma H, Bai Z, Wang Y, Wang B 2017 Fast transistor open-circuit faults diagnosis in grid-tied three-phase VSIs based on average bridge arm pole-to-pole voltages and error-adaptive thresholds. It is necessary for the monostable multivibrator used for chopper control to control the chopper such that the duty factor of the D.

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If the stator losses are also considered, the air gap power dissipates in the rotor circuit at low speed. IEEE Trans Ind Appl 30 4 :1028—1038.

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IET Power Electron 12 4 :923—931. Hu L, Yacamini R 1992 Harmonic transfer through converters and HVDC links. Still another object of the invention is to provide a speed control system of traction motor for electric vehicles wherein the duty factor of the D.

In: International conference on electrical systems for aircraft, railway, ship propulsion and road vehicles ESARS , Aachen, Germany. ISA Trans 51 2 333—344. Hitachi Ltd Original Assignee Hitachi Ltd Priority date The priority date is an assumption and is not a legal conclusion.

IGBT open

IEEE Trans Ind Electron 62 3 :1746—1759. In addition, with the monostable multivibrator utilizing paired transistors, it is impossible to reduce the reset time below a certain limit with the result that the control for the duty factor is confined within a narrow range. The terminal 102 is connected with the gate of the thyristor 10 shown in FIG.

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