



Bearing Currents in Inverter-Fed AC-Motors

By Annette Mütze

Shaker Verlag Feb 2004, 2004. Taschenbuch. Condition: Neu. Neuware - Modern fast switching IGBT-inverters (Insulated Gate Bipolar Transistors) allow high dynamic operation of variable speed drives while leading at the same time to energy savings. However, due to the steep voltage surges, bearings may suffer from inverter-induced bearing currents. These bearing currents may destroy bearings - depending on the system - within short time of operation. So far, research has focused on the physical explanation of the different bearing current phenomena. Here, a thorough analysis of the qualitative and quantitative influence of different parameters under exactly the same conditions on motors from less than 1 kW up to 500 kW rated power was carried out within the frame of a research project. The system parameters studied are motor size, motor speed and bearing temperature, design of motor and inverter (components from different manufacturers), motor cable type and motor cable length, filter operation and operation with use of insulated bearings and with use of hybrid bearings. The results obtained show that the significance of the different bearing current phenomena vary with different motor sizes and grounding configurations. As a consequence, mitigation techniques applied to reduce or eliminate the bearing...



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