Fault tolerance in multiphase electrical machines
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Period: 11-2019 to 10-2024

• Objectives
  – Field oriented vector control of multiphase induction machines (MPIMs)
  – Detection of faults in MPIMs
  – True fault tolerance with post-fault operation of remaining phases

• Funding and collaborations
  – School of Electrical Engineering at KTH

• Results so far
  – Harmonic Plane Decomposition – An Extension of the Vector Space Decomposition – Part I (Wu et. al, IECON,’20)
  – Harmonic Plane Decomposition – An Extension of the Vector Space Decomposition – Part II (Falk Olson et. al, IECON,’20)
  – Laboratory setup of multiphase induction machine test bench