

Switching oscillation-based fractional-domain high-sensitive diagnosis of machine turn insulation degradation

Sardar, Muhammad Usman; Vaimann, Toomas; Kütt, Lauri; Asad, Bilal; Kallaste, Ants Engineering Science and Technology, an International Journal 2025 / art. 102224 <https://doi.org/10.1016/j.jestch.2025.102224>

Wideband frequency diagnosis for high-sensitivity turn-insulation degradation estimation in inverter-fed machines

Sardar, Muhammad Usman; Vaimann, Toomas; Kütt, Lauri; Asad, Bilal; Kallaste, Ants; Raja, Hadi Ashraf 2025 IEEE Symposium on Diagnostics for Electric Machines, Power Electronics and Drives (SDEMPED) : proceedings 2025 / 7 p <https://doi.org/10.1109/SDEMPED53223.2025.11154298> [Conference paper at Scopus](#)

Wideband frequency response analysis for sensitive condition estimation of machine's turn insulation degradation faults

Sardar, Muhammad Usman; Vaimann, Toomas; Kütt, Lauri; Asad, Bilal; Kallaste, Ants; Land, Raul 2025 IEEE Workshop on Electrical Machines Design, Control and Diagnosis (WEMDCD) 2025 / 6 p <https://doi.org/10.1109/WEMDCD61816.2025.11014207>