

N. Iurie, N. Ilie, N. Petre-Marian, M. Alexandr and E. Vitalie, "Power Quality and Electromagnetic Interference in a Trolleybus Traction Sistem," 2020 International Symposium on Electromagnetic Compatibility - EMC EUROPE, Rome, Italy, 2020, pp. 1-5, doi: 10.1109/EMCEUROPE48519.2020.9245641.

Power Quality and Electromagnetic Interference in a Trolleybus Traction Sistem

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Abstract:

This paper presents an analysis of the power quality impact and electromagnetic interference in a trolleybus traction system. As test subject it is used a 180 kW induction motor supplied by a three phased inverter with field oriented control. A fast Fourier transform was used in a simulation process, to determine the power quality and electromagnetic interference processes of the current supplied to the motor.