

Łukasz John: Modes of Elimination of Radio Disturbance Conducted in Carriage Converters

The article features potential main sources of radio disturbance which may appear in multi-system carriage converters or auxiliary static converters mounted on urban rail vehicles such as trams, metro or rolling stock. There has been described a method to test carriage converters in the area of emissions of conducted disturbance on their high voltage power supply input port and low voltage power supply output ports in reference to normative permissible levels of radio-electric disturbance emissions. Moreover, practical ways to protect carriage converters against the effects of high values of radio disturbance resulting from poor design of the device during its design and production, have been presented.

Keywords: electromagnetic compatibility, radio disturbance, permissible emission level, carriage converters