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For wind turbines that feed into public grids, limits for voltage and current harmonics must be assured. To verify that the actual levels are valid, measurements are necessary. Problems can occur in determining which part of these harmonics has its origin in the wind turbine. It is shown that harmonics which originally have zero sequences can also be transferred over a delta-star-transformer, if the currents of the wind turbine are asymmetric due to unbalanced loads. Measurements in an existing wind turbine configuration are discussed, which confirm the described effects.



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