

Department: **Regional Innovation Centre for Electrical Engineering**

Research report no.: **22190-025-2011**

A Power Factor for Minimal Joule Losses of a Designed Synchronous Motor

Type of task: scientific research
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Pages: 10
Date of issue: 25 November 2011
Revision: 1.0

Note: Available only for purposes of the submitter – **VOLKSWAGEN A. G.**

This research is supported by project no. CZ.1.05/2.1.00/03.0094.

Annotation

The purpose of this research is to determine a power factor for minimal Joule losses of a designed synchronous motor. In this paper there are calculated V-curves and these are used for determination of total Joule losses in both armature winding and excitation winding. The calculations are performed for nominal speed and maximum temperature.