SUPERVISOR'S OPINION OF FINAL THESIS

I. IDENTIFICATION DATA

Thesis name:	**AC Arc Fault Detection**
Author's name:	**Kazim Yigit Baser**
Type of thesis :	master
Faculty/Institute:	Faculty of Electrical Engineering (FEE)
Department:	K13138
Thesis supervisor:	Doc. Ing. Radislav Šmíd, Ph.D.
Supervisor's department:	K13138

II. EVALUATION OF INDIVIDUAL CRITERIA

Assignment **ordinarily challenging**

Evaluation of thesis difficulty of assignment.

The goal of this thesis was to develop a method for arc fault detection in AC residential electrical wiring using direct digitization, signal processing and detection.

Satisfaction of assignment **fulfilled with major objections**

Assess that handed thesis meets assignment. Present points of assignment that fell short or were extended. Try to assess importance, impact or cause of each shortcoming.

From the many signal features listed in the thesis assignment, only frequency bands based features were implemented and evaluated. This significantly decreases the importance of the findings.

Activity and independence when creating final thesis **B - very good.**

Assess that student had positive approach, time limits were met, conception was regularly consulted and was well prepared for consultations. Assess student's ability to work independently.

The student has been coming for meetings on a regular basis.

Technical level **C - good.**

Assess level of thesis specialty, use of knowledge gained by study and by expert literature, use of sources and data gained by experience.

The feature computation and selection are discussed and implemented without deeper analysis.

Formal and language level, scope of thesis **B - very good.**

Assess correctness of usage of formal notation. Assess typographical and language arrangement of thesis.

The text contains minor typos (correlation/correction, Pok/Pošík etc.) and vague claims (e.g. last sentence on page 67).

Selection of sources, citation correctness **C - good.**

Present your opinion to student's activity when obtaining and using study materials for thesis creation. Characterize selection of sources. Assess that student used all relevant sources. Verify that all used elements are correctly distinguished from own results and thoughts. Assess that citation ethics has not been breached and that all bibliographic citations are complete and in accordance with citation convention and standards.

The type of document and publisher are often missing in the list of references.

Additional commentary and evaluation

Present your opinion to achieved primary goals of thesis, e.g. level of theoretical results, level and functionality of technical or software conception, publication performance, experimental dexterity etc.

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III. OVERALL EVALUATION, QUESTIONS FOR DEFENSE, CLASSIFICATION SUGGESTION

Summarize thesis aspects that swayed your final evaluation.

The results of the thesis contribute to the development of new arc fault detection devices, but the omission of other signal features limits radically the relevance of the findings.

I evaluate handed thesis with classification grade **D - satisfactory.**

Date: **7.6.2019** Signature: