EXPERIMENTAL AND INVESTIGATION ON PARALLEL OPERATION OF THREE PHASE TRANSFORMERS FOR STAR TO STAR AND DELTA TO STAR CONNECTIONS

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This report is presented in partial fulfillment for the award of the Bachelor's Degree in Engineering (Hons) (Electrical) of UNIVERSITI TEKNOLOGI MARA

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ACKNOWLEDGEMENT

In the name of ALLAH, the Beneficent and Merciful, it is with the deepest gratitude and humbleness to the Al-Mighty ALLAH that my project is finished as it is here.

First and foremost, I would like to take this opportunity to express my sincere gratitude and appreciation to my kindly project supervisor Professor Madya Ir. Mohd Idris Kahar who reviews early drafts and point out all the mistakes one has made and to all my friends for their valuable advises, inspiration, ideas, support, comments and suggestion to successfully complete this project.

I would like to record my appreciation to the personnel of Electrical Power Engineering Department, En. Abu Bakar, En. Rahim and En. Nordin from Electrical Laboratory for their cooperation in making these project a success as well as my colleagues for their support and kind understanding.

Last but not least, many thanks are due to others whose involvement in the project either directly or indirectly throughout to complete this project.

ABSTRACT

This paper discusses the experimental and investigations on parallel operation of three phase transformers for star to star and delta to star connections. The study is based on the open circuit and short circuit test of a three phase transformer testing unit rated for 2kVA, 240V and 50Hz. Almost all major power generation and distribution system are AC three-phase. Most electrical energy is generated and transmitted using a three phase system. Thus three phase transformers play major role in power industry. There are four common combinations of connections. The connections involved are star-star, star-delta, delta-star and delta-delta. The study is basically on star-star and delta-star connection.

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