

**MODELING AND SIMULATION OF THREE PHASE
CONTROLLED RECTIFIER**

**Thesis presented in partial fulfillment for the award of the
Bachelor of Engineering (Hons) Electrical
UNIVERSITI TEKNOLOGI MARA**



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ACKNOWLEDGEMENT

In the name of Allah (S.W.T) the Most Gracious and the most Merciful. I would like to express my gratitude to Allah (S.W.T) for blessing me, giving me the strength and opportunity to complete this project. I would like to express my thanks to my supervisor, Pn. SitiZalihaBtMohd Noor for her kindness, comments, corrections and suggestions to proceed with my project. If not for her supports as well as her guidance to ensure that my project is success I feel it might be quiet difficult for me to complete this project. Without her advices and valuable assistance this project can never be complete. Thank you very much and may God bless all of you.

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ABSTRACT

In this project, an AC – DC converter which controlled by using PWM switching technique, is developed. Switching strategy and operational principles of the proposed rectifier are explained and operational topologies are respectively given. The performance of the three phasecontrolled rectifier is evaluated by using simulation model rectifier is built in MATLAB Simulink and PSpice software, a specially designed software package for power electronic simulation. The simulation results are presented and discussed. Various tests by using difference carrier frequency are performed to investigate the actual performance of the rectifier. MATLAB SIMULINK results are compared with the well-known PSpice simulations to ascertain the accuracy of modeling

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