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KENYA POLYTECHNIC UNIVERSITY COLLEGE

**DEPARTMENT: ELECTRICAL AND ELECTRONICS
ENGINEERING**

PRESENTER: PETER WANGUYA WACHIRA

COLLEGE NUMBER: 107/00255

PROJECT TITLE: STATIC CIRCUIT BREAKER

COURSE OPTION: POWER OPTION

COURSE CODE: Et303107

SUPERVISOR: MR. MUGU

ION SERIES: AUGUST 2009

**TO: KENYA POLYTECHNIC UNIVERSITY
COLLEGE EXAMINATION BOARD**

PREFACE

In offering the this project the author wish to express his deep sense of gratitudes to the readers who have read different projects concerning circuit breakers and who have passed ideas to assist the improvement of this project has tried to achieve.

The purpose of this project is to improve the standard of the existing circuit breakers so as to offer a circuit breaker which has a long life and requires little maintainance. The project is design and construct a static circuit breaker which differs from the existing circuit breakers which have been designed earlier. Most of them have been using metal contacts to break a faulty circuit and they are manually operated but for this project it uses a 555 as a monostable multivibrator timer to operate a relay and hence it is automatic to isolate and make a circuit.

Most of the explanation of the working connections and flow of power in various components have been done and it is of great importance for the reader to know the mode of operation in every stage of design and this makes it easier to use. Greater emphasis has been laid to clear the fundamentals of the design. Errors might have crept in despite utmost care to avoid them but the author will be grateful if these are pointed out along with other suggestions for more improvement.