

Ground Fault Circuit Interrupt Report

Patrick Harrington

April 21, 2014

1 Introduction

Ground Fault Circuit Interrupts (GFCI's or GFI's) are a type of protection circuit commonly seen in bathrooms, kitchens and outdoor power sockets. Their existence is to reduce the risk of a lethal electrical shock, such as a toaster being dropped in a bathtub full of water. Most circuit breakers are intended to handle very large currents [cite], but a lethal electric shock can occur at very small currents as small as a few milliamps [cite].

2 General Design and Theory of Operation

3 Typical Models Available

4 Conclusion