

# Type LFCB Digital Current Differential Relay

## Features

- Unit protection for two and three terminal feeders
- Phase segregated differential current protection with high sensitivity
- Single and three pole tripping
- Suitable for use with dedicated optical fibre links or multiplexed systems
- Optional dual redundant communication channels for two terminal feeders
- Continuous channel propagation delay measurement and compensation
- 1 to 1 1/2 cycle operating time when used with a standard 56 or 64kb/s channel
- Power-on diagnostic and continuous self-monitoring
- Event recording, fault recording and intertripping
- Remote interrogation via RS232 serial link

## Models available

Three models are available:

LFCB102 – for two terminal applications

LFCB103 – for three terminal applications

LFCB202 – for two terminal applications, with dual redundant communication channels

Introduced in July 1993, there are three versions of the LFCB which have the facility to provide protection where the line is fed from two circuit breakers, as often found in 1 1/2



Figure 1: Operator interface

switch substations or mesh corner applications. This protection of the line between the Circuit Breakers (when closed) and Line Isolator (when open) ensures that only the local relay operates for faults in this area. Normal current differential protection is carried out when the Line Isolator is closed.

These versions are:

LFCB122 – for two terminal applications

LFCB123 – for three terminal applications

LFCB222 – for two terminal applications, with dual redundant communication channels

A range of communication interfaces is available to allow the LFCB to work with different types of dedicated or multiplexed communications links.

## Application

Current differential protection requires a comparison of the currents entering and leaving a protected zone. A dependable communication facility is needed to allow information exchange between relays at different line ends so that each can compare the local currents with the currents at the remote ends.

The digital current differential relay, type LFCB, offers phase selective, true differential protection for two and three terminal transmission and sub-transmission lines. The relay is an all digital, microprocessor based design for use with modern digital communication systems. Since data can easily be mixed and carried within a digital data message, all three phase current signals are transmitted over the same communication channel. Currents are compared on a per phase basis, obviating the biasing problem of the conventional summation current transformer approach and providing phase selection information for single pole tripping and to identify the fault type.

# Lfcb Relay Manual

**Siddappa N.Byrareddy**



**Lfcb Relay Manual:**

**Paper** ,1992    **ASME Technical Papers** ,  
Electric Company,195?    **Relay manual** ,1957  
Torch Relay Manual ,1998

**Electrical & Electronics Abstracts** ,1988    **Relay Manual** General  
**Relay Setting Manual** Pennsylvania Electric Association,197?

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