

Relay protection lockout relay



Article Overview

A lockout relay, also known as a master trip relay or ANSI code 86, is an auxiliary relay that latches its output to isolate a faulty section of a power system until manually reset.

Function and Purpose

Lockout relays serve as intermediaries between protective relays and circuit breakers, ensuring that when a fault is detected, the affected section is safely isolated. They do not sense faults themselves but receive trip signals from protective relays and then actuate multiple downstream devices, including breaker trip coils, alarms, indicator lights, and SCADA systems (). This latching function prevents the system from being re-energized until the fault is identified and corrected, enhancing safety and reliability ().

Operation

Lockout relays are typically electromechanical and have two coils:

- Operating coil: Energized by a protective relay to trip the relay and associated devices.
- Resetting coil: Energized manually or remotely to return the relay to its normal state. When the operating coil is energized, the relay moves to the tripped position, locking out the circuit. The relay remains in this state until manually reset, preventing automatic reclosure of breakers and ensuring that faults are addressed before restoring service ().

Applications

Article Content

Protective Relay Basics

Traditionally, protective relays were electromechanical devices utilizing induction disk, coils, contacts, and solenoid elements to

Master Trip (86) Relay: Working Principle, Wiring Diagram, Testing ...

This relay is often referred to as the “lockout relay” or “trip relay” in electrical protection terminology. It acts as an

Protection relays

Protection relays Numerical relays are based on the use of microprocessors. The first numerical relays were released in 1985. A big

What Is Lockout Relay? | Safety & Setup Guide

What Is Lockout Relay? Learn its definition, purpose, functionality in safety systems, key features, installation, and maintenance

Lockout Relay Wiring and Function Guide

The document summarizes information about lockout relays, which are high speed auxiliary relays that allow simultaneous operation

Trip and lockout relays

Trip and lockout relays Artech manufactures trip and lockout relays with a wide range of options to met each application

Master Trip Relay 86-Lock Out relay working Function

Master Trip Relay is an important auxiliary relay in power system protection. In this article we will discuss, the working, function, and

What is a Lock Out Relay / Master Trip Relay?

As the name suggests, this relay once operated locks out the circuit. This relay is not self resettable, it requires manual resetting for

What Is Lockout Relay? Safety and Function Explained

A lockout relay is a protective device used in electrical power transmission substations. It trips and holds a protection zone out of

Lockout relay 86 (LOR) in substation

Think of the lockout relay 86 (LOR) as a safety lock on your electrical system. Its job is simple but critical: once a CB

Wiring Diagram for Lockout Relays

The lockout relay wiring diagram provides a clear representation of how the lockout relay is connected and integrated within an

Master Trip Relay 86-Lock Out relay working Function

Lock out relay 86 acts as the central command unit for all the connected protection relays, coordinating their actions and ensuring the

Introduction to Protective Relaying | Electric Power Measurement and ...

Introduction to Protective Relaying What are Protective Relays, or Protection Relays? Protective relays are used in industrial power

What is a Lock Out Relay / Master Trip Relay?

Lock out relay is an electromechanical relay which latches its output contact. As the name suggests, this relay once operated locks

Contact Us

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