

# Relay Protection Principle of Electric Compressors



## Overview

A compressor relay (RLA) is a crucial component in the operation of compressors, responsible for starting and protecting these devices. IEEE/IAS/I&CPSD Protection & Coordination WG Chair Jacobs Canada, Calgary, AB rasheek. com IEEE Southern Alberta Section PES/IAS Joint Chapter Technical Seminar - November 2016 Protective Relays - Technical Seminar Nov 2016 - Copyright: IEEE 2 Abstract: Protective relays and devices. Relays associated with motor protection are smart devices crafted to track the operational conditions of motors, identifying potential issues and disconnecting the motor from the power source to prevent further damage. In overload cases, the motor protection relay will interrupt the power supply so. Long term cost reduction (TCO) for trainings and maintenance by reduce variety of relays A fast and selective arc fault mitigation for air-insulated LV & MV switchgear and Relion protection and control relays and sensor technology protect staff and plant facilities for many years. Hey, in this article, we are going to see OLP and Relay Wiring Diagram with Compressor and Connection between them. The primary function of the OLP is to protect the motor from damage. Licensed professional engineer for 15 years. 25 years in the electrical industry including 10 years as a MEP consulting engineer.

## Article Content

May 05, 2026

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Power Inductors Circuit protection Electromechanic & couplers Relays Connectors  
Rotary Input Devices Switches

Jul 09, 2025

Motor Protection Relay: Types, Working & How Its Work

In this blog, we will be discussing some key topics such as what is motor protection relay, its types, its operating principles, types of motor protection

Jul 06, 2025

Protective Relay Basics

The objective of this presentation is to convey a basic understanding of protective relays to an audience of engineers already familiar with low voltage protective device coordination.

Dec 30, 2025

Protective relay

Distance relays, also known as impedance relay, differ in principle from other forms of protection in that their performance is not governed by the magnitude of the

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Protective Relay Basics

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

Sep 18, 2025

The basics of power system protection that every

Protection is the branch of electric power engineering concerned with the principles of design and operation of equipment (called "relays" or "protective

Jul 17, 2025

Protective Relay: Working, Types, and Applications

Learn about protective relays, their working principle, types, and applications in power systems. Discover how relays protect transformers,

Mar 18, 2026

### OLP and Relay Wiring Diagram with Compressor

The primary function of the OLP is to protect the motor from damage due to overheating. If the compressor motor draws excessive current due to

Oct 03, 2025

### Relay vs Contactor: Key Differences, Working

Learn the difference between a relay and a contactor (Relay vs Contactor), including working principles, real-world applications, and a complete guide.

Aug 22, 2025

### Understanding Electrical Safety Features in DIY Air

Electrical safety features in DIY air compressors are critical for ensuring safe operation and preventing accidents. Key protection mechanisms

Jan 31, 2026

### Protective relay

Electromechanical protective relays at a hydroelectric generating plant. The relays are in round glass cases. The rectangular devices are test connection blocks,

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### Basic protection relay knowledge

Protection is needed to detect electrical faults and abnormal operating conditions. Protection is also needed for protecting people and property around the power network. The protected zone is the part

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### Compressor Relay: Essential Protection for Compressor Performance

A compressor relay (RLA) is a crucial component in the operation of compressors, responsible for starting and protecting these devices. It monitors motor current, providing overload

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### Basic Theories of Power System Relay Protection

Relay protection with good performance should meet the requirements of reliability, selectivity, speed and sensitivity. In order to meet the requirements of a complex network, relay

Mar 13, 2026

## Power System Protective Relays: Principles & Practices

Abstract: Protective relays and devices have been developed over 100 years ago to provide "last line" of defense for the electrical systems. They are intended to quickly identify a fault and isolate it so the

Mar 30, 2026

## What is Overload Protector

An overload protector is an electrical device that we use for compressor protection, whenever the compressor temperature is high from his

Jun 14, 2026

## Relays | Power System Protection 1: Principles and components

The latter are distinguished in the British Standard for Electrical Protective Relays, BS 142 : 1966, as "all-or-nothing" relays, this rather inelegant expression being used to imply that these

Sep 23, 2025

## Overload relay - Principle of operation, types, connection

An overload relay (OLR) protects an electric motor against overloads and phase failures. Thermal and Electronic OLR - definition, operation and connections.

May 23, 2026

## Basic Theories of Power System Relay Protection

This chapter first introduces the basic theories of power system relay protection, summarizes the functions and basic requirements of relay protection, and illustrates the basic principles of relay

Feb 12, 2026

## Protective Relays: Types, Working Principle & Uses

The main purpose of a protective relay is to detect faults or abnormal electrical conditions and send a trip or control signal so the affected equipment can be isolated.

Apr 25, 2026

## What does a compressor relay do in Refrigeration

Conclusion The compressor relay is a small yet indispensable component in refrigeration and air conditioning systems. Its functions, including starting and stopping the compressor motor,

Nov 07, 2025

PMU-based relays\_v2.dvi

Relays detect and locate faults by measuring electrical quantities in the power system which are different during normal and intolerable conditions. The most important role of protective relays is to first

## Contact Us

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