

# Relay protection device for capacitor banks



## Overview

This overcurrent relay detects an asymmetry in the capacitor bank caused by blown internal fuses, short-circuits across bushings, or between capacitor units and the racks in which they are mounted. Each capacitor unit consists of a number of elements protected by internal fuses. Capacitors in MV or HV compensations use oil as dielectric, which could catch fire in case of a damage. A permanent supervision of the state of the. Trench's capacitor protection relay is specifically designed to provide comprehensive protection of medium and high voltage capacitor banks and filter installations, thereby enhancing the safety and the efficiency of the system. The devices vary depending on the purpose and functionality of the application: they can be used for both automatic and manual power factor control applications and can contain a variety of dedicated protection functions.



## Article Content

Jul 30, 2025

### Capacitor bank protection

Arcteq offers dedicated devices for capacitor bank protection, both automatic and manual power factor control applications.

Nov 21, 2025

### Capacitor and filter bank

ABB's capacitor bank protection is used to protect against faults that are due to imposed external or internal conditions in the shunt capacitor banks. Internal faults are caused by failures of capacitor

Sep 30, 2025

### 7SR191 Capa Catalogue Sheet.doc

Description The 7SR191 Capa devices are numeric protection relays designed for application on shunt connected distribution capacitor banks arranged in all common connection configurations, typically

Sep 14, 2025

### Capacitor bank protection design consideration white paper

Capacitor banks provide an economical and reliable method to reduce losses, improve system voltage and overall power quality. This paper discusses design considerations and system implications for

Aug 23, 2025

### Electronics Capacitor Protection Relay | Trench Group

Trench's capacitor protection relay is specifically designed to provide comprehensive protection of medium and high voltage capacitor banks and filter installations, thereby enhancing the safety and

Mar 15, 2026

### Principles of Shunt Capacitor Bank Application and Protection

Principles of Shunt Capacitor Bank Application and Protection Satish Samineni, Casper Labuschagne, and Jeff Pope, Schweitzer Engineering Laboratories, Inc.

Jan 09, 2026

### SEL-487V Capacitor Bank Protection, Automation, and Control System

Simplify relay setting and application while reducing inventory by using one relay for all of your capacitor bank needs. The versatile SEL-487V Capacitor Bank Protection, Automation, and Control System

Mar 25, 2026

### Protection of Capacitor Bank

Like other electrical equipment, a shunt capacitor can experience internal and external electrical faults. Therefore, it needs protection from these

Jun 10, 2026

### The basics of capacitor banks protection

In addition to the relay functions described above the capacitor banks needs to be protected against short circuits and earth faults. This is done with an ordinary two- or three-phase

Sep 22, 2025

### Capacitor Bank Protection

Capacitor Bank Protection Definition Protecting capacitor banks involves preventing internal and external faults to maintain functionality and safety. Element Fuses Manufacturers usually include built

Aug 09, 2025

### Installation, protection and connection of capacitor banks

In an low voltage electrical installation, capacitor banks can be installed at three different levels - global, segment (or group) and individual.

Nov 13, 2025

### How to Protect Capacitor Bank?

Discover practical methods for protecting capacitor banks, such as overvoltage, overcurrent, & short-circuit protection, to ensure peak performance

Feb 20, 2026

### Capacitor Bank Protection

Capacitor Bank Protection Ranges PowerLogic™ P5 Protection Relays Withdrawable protective relays for demanding MV applications Medium Voltage protection relays with a focus on safety and cyber

Sep 01, 2025

### Protection relays for capacitor banks

It has been designed for MV or HV applications, to protect the capacitors from overload, over voltage and unbalance with the advanced and flexible microprocessor technology.

Feb 21, 2026

Capacitor Bank Protection | Schneider Electric USA

Schneider Electric USA. Discover our range of products in Capacitor Bank Protection: PowerLogic™ P5 Protection Relays, PowerLogic™ P3 Protection Relays, Sepam series 80

Jul 24, 2026

Application Manual REV615 Control Capacitor Bank Protection and

The relay provides main protection for single star, double star, and H-bridge connected capacitor banks and harmonic filters in distribution networks. ridge connected or double star connected shunt

Sep 12, 2025

The basics of capacitor banks protection

Capacitor bank protection 1. Unbalance relay This overcurrent relay detects an asymmetry in the capacitor bank caused by blown internal fuses,

Nov 11, 2025

Protection relays for capacitor banks

Capacitor banks unbalance protection relay KSR1 The KSR1 is a modern single-phase unbalance protection relay which covers a wide range of typical monitoring scenarios in MV and HV

Nov 13, 2025

How to control and protect capacitor banks before something goes

Overcurrent relay for capacitor-bank protection A time-overcurrent relay, device 51, with an inverse or very inverse characteristic, is used for capacitor-bank fault protection.

Oct 23, 2025

C37.116-2018

The application of protective relays on transmission-line series capacitor banks is covered. Ample discussion of the protection and control issues related to series capacitor bank installations is

Jun 05, 2026

## Capacitor Bank Protection

Capacitor Bank Protection Capacitor banks provide essential functionality to help maintain the quality, or power factor of virtually any electrical distribution system. Due to the varied nature, our protection

Dec 31, 2025

### Product Guide REV615 Control Capacitor Bank Protection and

1. Description REV615 is a dedicated capacitor bank relay designed for the protection, control, measurement and supervision of capacitor banks used for compensation of reactive power in utility

Dec 23, 2025

### Capacitor Bank Protection Relay : A25R

Relay is equipped with unbalance voltage protection of capacitor bank with the help of measuring residual voltage transformer connected across the group of capacitor unit.

## Contact Us

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