7.2-12kV Single Pole AC Vacuum Contactor

This contactor series features an electrical insulating frame, metal base, and electromagnetic systems. It uses a permanent magnet, power modules, auxiliary switches, and vacuum interrupters.

Product Overview

High-Voltage Switching Solution

The 7.2-12kV Single Pole AC Vacuum Contactor is a specialized high-voltage electrical switching device engineered for demanding AC power systems. Utilizing advanced vacuum interrupter technology, it ensures rapid and reliable circuit switching, making it ideal for frequent operations such as motor control and capacitor bank switching. Its robust single-pole design provides precise individual phase control within three-phase systems.

Technical Specifications

Rated Voltage

7.2 kV	12 kV
Minimum Rated Voltage	Maximum Rated Voltage

Configuration	Single Pole AC Vacuum Contactor
Common Applications	Motor Control, Capacitor Bank Switching, Power Distribution

Construction & Design

Key Components

- Electrical insulating frame
- Metal base
- Shaft and crank arm
- Electromagnetic systems
- Permanent magnet
- Power modules
- Auxiliary switches
- Vacuum interrupters

Operation Mechanism

Operating Principle

When control voltage is applied to the electromagnetic coil, the armature rotates the crutch to open the main contact within the vacuum interrupter. The auxiliary switch then cuts off power to the coil, engaging permanent-magnet maintenance. Upon power loss in the control circuit, the power module discharges stored energy to the coil for degaussing, allowing the opening spring to break the main contact.