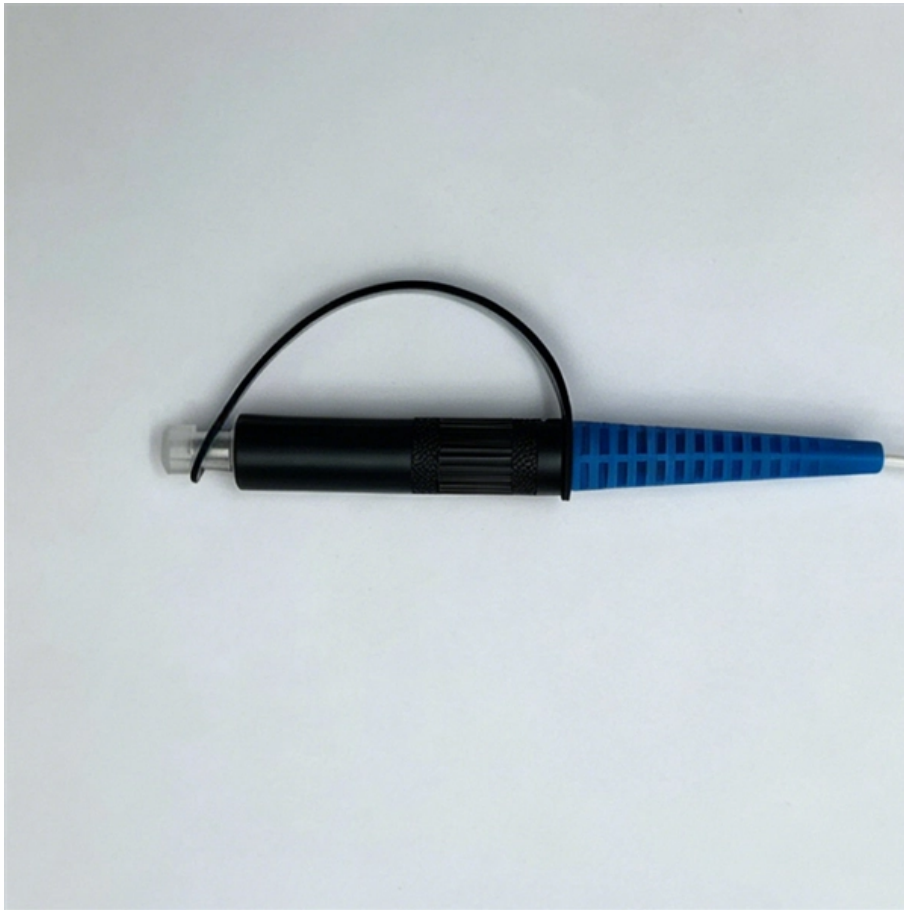


# **Compressor thermal relay protection**





## Overview

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The overload relay is also often called the 'thermal block' or 'thermal relay'. An overload protector is an electrical device that we use for compressor protection, whenever the compressor temperature is high from his range the compressor overload cuts off the electric supply from the compressor motor that's why we called him thermal overload. The blog explains how it works, compares manual and automatic reset options, and highlights benefits like easy installation, phase-loss protection, and. TL;DR: Thermal overload relays are essential motor protection devices that prevent electrical equipment from overheating by monitoring current flow and automatically disconnecting power when excessive loads persist. Even if only one phase is activated among the three phases, it acts on a common lever and can provide protection.



## Compressor thermal relay protection

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### Why the ZHB125 135P4.7 Compressor Overload Protector Relay

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The ZHB125 135P4.7 relay is a reliable 2-pin compressor protector with 135°C thermal cutoff, designed for Haier, Midea, and TCL refrigerators, ensuring safe startup and protection against overheating.

### How the overload relay ('thermal block') protects your air

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Because of this, the thermal relay is perfect for protecting motors. When the motor starts, it draws huge amounts of current, but this doesn't trip the



## What is a thermal overload relay?

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The thermal overload relay is an electromechanical protection device of a main circuit. Read further to know more what is it and advantages of it.

## Thermal overload relays , EPPC , ABB

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Thermal overload relays Motor protection for overload and phase failure Thermal overload relays are economic electromechanical protection devices for the main

## Thermal Relay , How it works, Application & Advantages

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A thermal relay is an electromechanical device that detects temperature changes in electrical circuits, protecting equipment from overload



## **CS4TM Thermal Overload Relay , Air Compressor Motor**

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For CS4TM series thermal overload relay, we have designed various models with different opening and closing temperature respectively for different working

## **What are thermal overload relays and what motion**

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Image credit: ABB Electronic thermal overload relays measure current electronically, rather than relying on a heater mechanism, and so are insensitive to changes in

## **Comprehensive Guide to Overload Relays: Motor**

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This guide provides a detailed overview of overload relays, including their role in protecting motors from overheating, common causes of motor overload, key

## **Thermal Relay , Overheat Protection Function**

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Understanding Thermal Relays and Overheat Protection Thermal relays are a fundamental component in the field of electrical engineering,

## **What is a thermal overload relay?**

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Learn everything about thermal overload relays - how they work, types (bimetallic, electronic), applications, and why they're essential for motor



## **3 Pin 4.7 Ohm PTC Starter For Relay and Overload Protector for**

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3 Pin 4.7 Ohm PTC Starter For Relay and Overload Protector for Refrigerators, Compressor Start Device with Thermal Protection for Mini Fridge and Cooler Repair

## **Thermal Overload Protector for Compressor (115 VAC)**

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Thermal overload protector, 13.9 amps. Opens at 125 degrees Celsius (257 degrees Fahrenheit), closes at 61 degrees Celsius (141.8 degrees Fahrenheit). Trip time is

## **Compact Powerhouse 15HP 230V Three Phase Frequency Converter**

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AC Motor, Blowers, Compressor, Industrial Automation, Industrial Equipment, Motor, Motor Speed Control, Pumps Nominal Voltage 230V Power Phase Number Three Phase Rated Power 11KW IP

## **Role of Overload Relays in HVAC Systems , BCH Electric**

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Learn how overload relays protect HVAC motors, cut downtime, and boost safety--plus key selection, setup, and BCH Electric product advantages.

## **CS4TM Thermal Overload Relay , Air Compressor Motor**

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The basic function set of the 4TM thermal overload relay with plug-on feature is to protect the motor in a refrigeration compressor from overheating as a result of



## What is Compressor Motor Overload Protection?-Elang

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07. What is Compressor Motor Overload Protection? After the motor's disconnect contactor, a "thermal relay" (often referred to as a "thermal overcurrent relay" or simply "thermal relay") is connected. In the

## Instagram

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Storage temperature is pulled down to:  $-40^{\circ}\text{C}$  During pull-down: -> Compressor runs continuously -> Evaporator removes heat rapidly -> Product temperature drops quickly  
Compressor control logic. ->

## Thermal Overload Ac Compressor : Preventative Measures

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The thermal overload, also known as the overload relay or thermal block, safeguards the compressor from damage by monitoring electric motor

## **PTC Start Relay and Overload Protector for Refrigerator Compressor,**

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PTC Start Relay and Overload Protector for Refrigerator Compressor, 2-Pin for Starter Replacement Kit for Mini Fridge Cooler AC, Thermal Protection Device for 1/4HP 1/3HP

## **How the overload relay ('thermal block') protects your air**

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The thermal relay is 99% installed below the main contactor. All industrial compressors that don't have a VSD drive or 'soft starter', start up using



## Protective thermal relay for compressor

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The thermal relay BR-C 125°C is designed to protect commercial compressors against overheating. It is installed on the compressor's discharge tube and reacts to the temperature of the refrigerant vapors

## What is an Overload Protector in a Refrigerator and How Does it Work

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An overload protector, also known as a thermal overload protector or simply a protector relay, is a small device connected to the compressor of a refrigerator. It acts as a protective

## 4TM SERIES, COMPRESSOR CONTROL

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Protects compressors for refrigerators, freezers, dehumidifiers, water Control coolers, vending machines, and similar refrigeration applications o Applicable to compressors manufactured around

## **What is Compressor Motor Overload Protection?-Elang**

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If the motor is overloaded or operated with a phase missing, the current increases, causing the bimetallic strips in the thermal relay to gradually bend. When the bimetallic strips bend to a certain degree, they

## **What is Overload Protector**

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



## What is Overload Protector

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When the compressor comes back to its normal state/temperature, the thermal overload protector makes a closed electric circuit inside and connects

## Thermistor motor protection relays

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The CM-MSx thermistor motor protection relays are used to monitor the temperature of motors equipped with PTC temperature sensors.

### Contact Us

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