

Specifications and Models of Thermal Relay Protectors



Summary of Content

Thermal relay protectors safeguard motors from overloads by monitoring current and temperature, with models ranging from bimetallic, eutectic alloy, to solid-state types, each offering specific features and specifications.

Common Models and Their Features

1. SEL-710 Motor Protection Relay The SEL-710 and its upgraded SEL-710-5 model provide enhanced thermal protection for low- and medium-voltage three-phase motors. Key features include:

- Thermal modeling for locked rotor starts, starts-per-hour, load loss, and current unbalance
 - RTD and PTC-based thermal protection, supporting up to 10 RTDs or external RTD modules for multiple temperature monitoring
 - Overcurrent protection including phase, negative-sequence, residual, and neutral elements
 - Environmental resilience: operates from -40° to $+85^{\circ}\text{C}$, ATEX and UL Class I, Division 2 certified
 - Advanced control: star-delta, forward/reverse, two-speed motor control, and communication options like EtherNet/IP with touchscreen interface
2. CHINT NXR Thermal Overload Relay Designed for three-phase AC motors, the NXR series features:
- Bimetallic design with temperature compensation

Article Content

L& T MN Relay Range Overview | PDF | Components

It describes the features and specifications of Type MN and Type RTO thermal overload relays, including their frame sizes,

Thermal Overload Relay Selection Guide: Heating Types & Reset Modes

For comprehensive motor protection system design, integrate thermal overload relays with properly coordinated

Thermal Overload Relays

Thermal Overload Relays Thermal overload relays are essential components of electric motors. They protect motors from excessive

Protection Relays | Mitsubishi Electric Automation

Motor Protection Relays without Phase Failure Protection Protects motors against overload and locked rotor, securing safe

NXR Thermal Overload Relay Datasheet & Manual | CHINT global

With wide current adjustment ranges, trip indication, and easy plug-in installation with CHINT contactors, the NXR series delivers

Protective Relay Basics

For electromechanical relays: Avoid mixing different manufacturers and models of overcurrent relay in the same circuit. Curve names

Calculation and selection guide for Thermal Relay

For example, Mitsubishi's TH-T18 thermal relay line can only be used for Mitsubishi

Thermal Switches and Thermal Protectors Specifications

Find Thermal Switches and Thermal Protectors on GlobalSpec by specifications. Thermostats and thermal switches are electro

Thermal Overload Relay Explained: Motor Protection,

Learn what a thermal overload relay does, how bimetallic and melting alloy overload relays

J7TC Series Thermal overload relay/Specifications

Thermal overload relay Motor Protection from Overload and Phase -loss by Combination with J7KC for up to 2.2 kW

Overload Relay Choices for Motor Protection

The solid state design of the CEP7 overload relay, offered in two models, provides ambient temperature compensation, thermal and

Thermal overload relays | EPPC | ABB

Thermal overload relays are economic electromechanical protection devices for the main circuit. They offer reliable protection for

Thermal Relays | McMaster-Carr

Choose from our selection of thermal relays, including overload protectors for motor starters, high-limit temperature controllers, and

Thermal Overload Relays Specifications

Find Thermal Overload Relays on GlobalSpec by specifications. Overload relays prevent an electric motor from drawing too much

Thermal Relay Working Principle Construction of Thermal Overload Relay ...

A thermal relay works depending upon the above mentioned property of metals. The basic working principle of

INT69 motor protection relay from KRIWAN

Effective and reliable protection against thermal overload of electrical machines with the INT69 motor

Thermal relay: operating principles, types, wiring diagram + regulation ...

In most models of mechanical thermal relay has two contact groups. One pair - normally open, and the other - closed permanently.

Thermal overload relays

Thermal overload relay type M-bw with saturable transformer Thermal overload relays with saturable transformers are used for the

What is a Thermal Relay? Structure and principle of operation of ...

Question 4: What problems can damage the thermal relay? Answer: A number of problems can damage thermal

How does a thermal relay work

Learn how thermal relays function to protect electrical devices from overloads by monitoring and responding to

Thermal Overload Relays Electronic Overload Relays

The relays are constructed so that they protect themselves in the event of overload until the series-connected short-circuit protection

Thermal Overload Relay | ABB Electrification U.S.

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

Thermal Overload Relays Information

Thermal overload relays are protective devices. They are designed to cut power if the motor draws too much current for an extended

Thermal Overload Relays Information

Thermal overload relays may include several specifications about this action. Full load current range refers to a range of current

INT69 motor protection relay from KRIWAN

Motor protection based on PTC sensors represents one of the most effective and reliable protective

Thermal Relay Types, Working And Applications

Thermal Relay Types Thermal overload relays are mainly categorized based on their

Thermal Overload Relays Electronic Overload Relays

In order to protect motors against short-circuits, it is advisable to use fuses aM in conjunction with the thermal overload relay. The

SELECTION GUIDE

SELECTION GUIDE TE Connectivity (TE) is your components provider for relays that help increase reliability and enhance

ABB Thermal Overload Relay: Models & Specs Guide

Find the right ABB thermal overload relay. Our guide covers models like TA2X, TA25DU, &

thermal overload relay catalog

LR2 Series Thermal Relays 1. Scope of application ad and phase break protection. It has differential mechanism, temperature

Contact Us

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