

## 250 Series DIN Rail and Wall Mounted - Thermistor Trip

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### Application

The Crompton Thermistor Trip Relay, when used in conjunction with positive temperature co-efficient thermistors, will give full protection against:

- » Sustained overload
- » Single phasing
- » Locked rotor
- » Blocked ventilation
- » High ambient temperature



The Crompton thermistor trip relay continuously monitors the working temperature inside equipment.

When the temperature exceeds a safe limit, the relay can be used to shunt equipment down until it has cooled down again. The protector can be used to protect:

- Motors
- Transformers
- Generators

### Introduction

Many motors and transformers are supplied with thermistor temperature sensors already fitted.

Thermistors are low cost over-temperature sensors.

### Product Function

The protector operates by de-energizing a relay when the thermistors detect a critical temperature condition. An illuminated green LED indicates when the temperature is within normal working limits.

Any number of thermistors may be used in series connection providing the resistance at normal working temperature is less than 1500 ohms.

There are no user adjustments on this relay.

### Product Code Examples

Relay	Input	A.C. Aux Power	Reset	ANSI No.	Catalogue No.
P.T.C. Thermistors	1500 Ohms	120V	49	Manual.	252-PMMU-STBX-DG
	1500 Ohms	120V	49	Auto.	252-PMTU-STBX-DG

### Specification

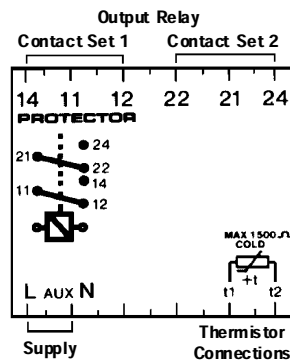
**Approvals:** This model is U.L. recognized Model 252 - PMMU is CSA approved.  
**Input:** Positive temperature coefficient thermistors (series connected 1500Ω maximum at normal temperature)  
**Range:** Trip 2500-3500Ω  
 Reset 1500-2300Ω  
**Status:** Normally energized - green LED illuminated. Relay is de-energized above trip point

**Reset:** Model 252-PMT: Automatically resets when temperature returns to normal  
 Model 252-PMM: fitting a link between terminals R1 and R2 will latch the product in its tripped state when an over temperature condition is detected. The relay can be reset by pressing the front panel reset switch, opening the R1 - R2 link, or interrupting the auxiliary supply.

**Auxiliary Supply:** A.C. 50/60Hz 110, 120, 220, 230 & 240V ±20%  
**Burden:** 2VA approx.

### Connection Diagrams

252-PMT



252-PMM

