Made in USA

ICM442
Motor Protector

The ICM442 is a low cost, rugged motor temperature monitoring device designed to shut off power to the motor before thermal damage occurs.

Features

- **Protects against over temperature in motor windings**
- **Control Duty SPST Relay Layout: 10 amp, 250 VAC**
- **Uses up to four (4) 100 Ohm thermistors in series**

Specifications

Input

- **3-Phase Voltage:** 200-575 VAC
- **Frequency:** 50/60Hz
- **Coltrol Voltage:** 115-277 VAC
- **Thermistors:** four (4) 100Ω thermistors in series

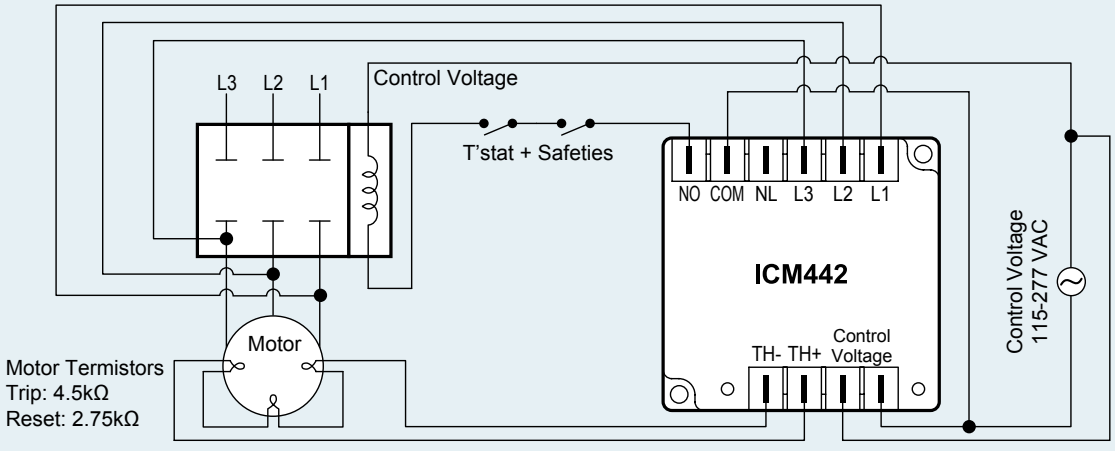
Output

- **Relay Rating:** 250 VAC at 10 A

Mode of Operation

The **ICM442** protects a three-phase motor using up to four thermistors in series. When at least one (1) of the thermistors has a resistance over 4.5kΩ the relay on the **ICM442** will de-energize the contactor on the motor. When the total resistance of the thermistors returns to 2.75kΩ, the **ICM442** will re-energize the relay and, in turn, the contactor. When there is a phase reversal, four (4) consecutive phase loss faults, or ten (10) phase loss faults in a 24 hour period, the **ICM442** will enter lockout. To clear the lockout, power cycle the unit.

Wiring Diagram



LIS258

All features and specifications subject to change without notice.

Phone
315.233.5266

Application Assistance
800.365.5525
visit us at: www.icmcontrols.com

Fax
315.233.5276