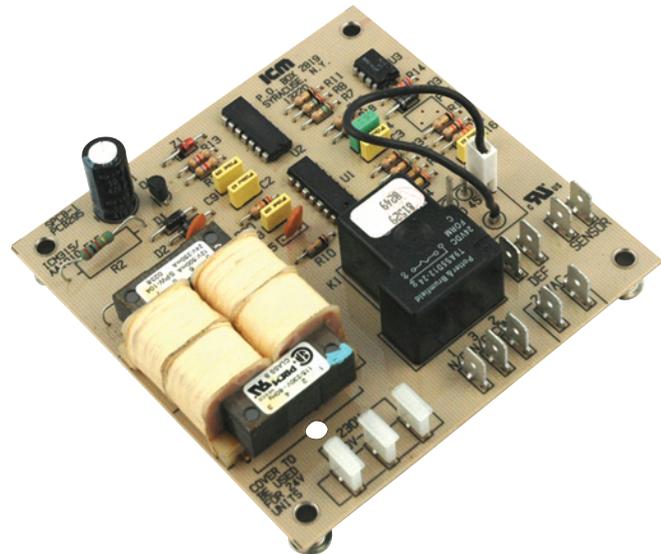




Solid State Reliability

Low cost, high performance
E15 replacement,
uses ntc-type probe...

The **ICM315** is a reliable, solid state replacement for E15-type controls. It uses a thermistor-type probe as opposed to the unstable bulb-type sensors used with E15 controls. The ntc-type probe of the **ICM315** is less susceptible to breakage. Unlike E15 controls, the **ICM315** is not "position sensitive" and therefore not susceptible to "re-initiation phenomenon" which can cause damage due to short cycling.



Features

- **Solid State Reliability:**
 - Replaces unstable, bulb-type sensors
 - Less susceptible to breakage
- **Ultra Low Cost:**
 - Without compromised performance
- **"No Re-initiation Phenomenon":**
 - ICM315 is not position sensitive
- **Ordering Information:**
 - Order ICM P/N: ICM315

Specifications

Input

- **Voltage:** 18 to 30 VAC
- **Frequency:** 50/60 Hz
- **Power Consumption:** 1 watt maximum
- **Defrost Time:** Fixed at 10 minutes ($\pm 20\%$)
- **Interval Time Between Defrosts:** 30/45/90 minute pin selectable
- **Test Time:** Short across DEF terminals to reduce test time by 256x (sensor terminal opened)

Output

- **Type:** Relay
- **Form:** SPDT
 - **N.O.:** 20 amps @ 240 VAC
 - **N.C.:** 10 amps @ 240 VAC

Mechanical

- **Dimensions:** 4.25" x 4.25"
- **Mounting:** Surface mount using (4) #6 or #8 screws, or plastic stand offs

Mode Of Operation

The ICM315 provides a selectable time interval (30, 45 or 90 minutes) between 10-minute defrost cycles. Upon application of power, the timing sequence begins with the run period first, and then the 10-minute defrost period.

When the thermistor senses a temperature of 28°F or lower, the defrost board will be controlled by its internal timer. The relay will be energized every 30, 45, or 90 minutes based upon the pin selected. If during the 10-minute defrost period, the temperature rises to 55°F or greater, the defrost period will terminate. If this condition does not occur, the defrost period will complete and the entire sequence will repeat.

Note: The on-board relay (K1) will be energized only during the 10-minute defrost period.

Wiring Diagram

