



### APPLICATIONS:

APPLIANCE | ELECTRICAL | HVAC/R | MARINE | POOL & SPA | RV



DIN rail or surface mount

## OVERVIEW

Designed in a small, easy-to-mount, surface mount or DIN rail style case, the **ICM409** continuously monitors the incoming line voltage for errors. When the line voltage is appropriate, the **ICM409** closes a set of N.O. contacts and lights a green LED. When the incoming voltage is outside of the user's set parameters, the N.O. contacts open and the red light will flash a code for the particular fault present. The control will also interrogate the line voltage during the fault condition to avoid short cycling and nuisance trips.

## REPLACES

- N/A

## FEATURES

- ✓ Low cost three-phase voltage monitor with fault indicator
- ✓ Protects Against low voltage, high voltage, power interruptions, phase loss, phase reversal and unbalanced voltage
- ✓ Adjustable delay-on-make timer for staggered starting
- ✓ Adjustable delay-on-break for anti-short cycle protection
- ✓ Adjustable universal voltage from 190 VAC to 480 VAC
- ✓ Adjustable voltage unbalance from 2-8% of the line voltage

## SPECIFICATIONS

- **User selectable universal voltage:** 190-480 VAC
- **User selectable unbalanced voltage:** 2-8%, trips after 6 seconds of unbalance condition
- **User selectable delay-on-make (staggered start) timer:** .1 to 5 mins.
- **User selectable anti-short cycle/delay-on-break timer:** .1 to 5 mins.
- **High/low voltage cut-out:** High voltage cut-out set point + 12%, low voltage cut-out set point - 12%, detects condition within 100mS
- **Power/phase loss detection:** Within 100mS
- **Phase reversal detection:** Detects phase reversal condition on power up
- **Relay Contact Ratings:** *N.C. contacts:* 10A resistive @ 250 VAC  
*N.O. contacts:* 10A resistive @ 250 VAC
- **Operating frequency:** 50/60 Hz
- **Maximum operating/storage relative humidity:** 95% Non-condensing
- **Storage temperature range:** -40°F to +185°F (-40°C to +85°C)
- **Connection terminals:** Screw down terminals provide easy hookup for both line voltage and control circuit wires
- **Conformal coated circuit:** Conformal coated circuit provides protection in extreme environment conditions

Content and specifications on sell sheets subject to change without notice.