Made in USA

ICM408
3-Phase Line Monitor

The ICM408 is a low cost three-phase voltage monitor with fault indicator.

Protect Against...

- Low Voltage
- High Voltage
- Phase Loss
- Power Interruptions
- Phase Reversal
- Unbalanced Voltage

Features

- **Adjustable delay-on-make time delay for staggered starting, adjustable delay-on-break time delay for anti-short cycle protection**
- **Adjustable universal voltage from 190 VAC to 480 VAC**
- **Adjustable voltage unbalance from 2-8% of the line voltage**

Mode Of Operation

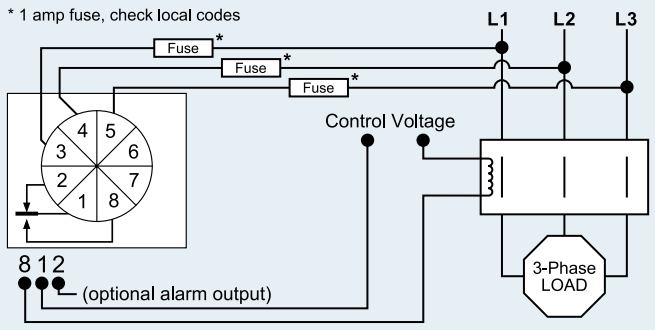
Designed in a small, plug in style case, the ICM408 continuously monitors the incoming line voltage for errors. When the line voltage is appropriate, the ICM408 closes a set of N.O. contacts and lights a green LED. When the incoming voltage is outside of the user's set parameters, the N.O. contacts open and the red LED will flash a code for the particular fault present. The N.O. relay contacts will not close until the fault condition is corrected and the time delay has expired.

Status LED Indicators

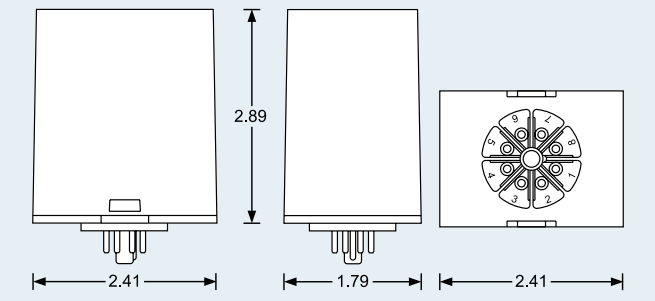
GREEN LED
Load ON

RED LED
- Solid = Phase reversal fault
- 1 flash = DOM lockout
- 2 flashes = Low voltage fault
- 3 flashes = High voltage fault
- 4 flashes = Unbalance voltage fault

Wiring Diagram



Dimension Diagrams



Specifications

User Selectable Universal Voltage
- 190 VAC to 480 VAC

User Selectable Unbalance Voltage
- 2 to 8%
- Trips after 6 seconds of unbalance condition

User Selectable Delay-on-Make (Staggered Start) Time Delay
- .1 to 5 minutes

User Selectable Anti-Short Cycle/Delay-on-Break Time Delay
- .1 to 5 minutes

High/Low Voltage Cutout
- High voltage cutout setpoint + 12%
- Low voltage cutout setpoint – 12%
- Detects condition within 100 ms

Power/Phase Loss Detection
- Within 100 ms

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

Operating Temperature Range
- -40°F to +149°F (-40°C to +65°C)

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 allows use in extreme environmental conditions

LIS120-1

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

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