ICM408

3-PHASE PLUG-IN VOLTAGE MONITOR

INSTALLATION

1. Disconnect or turn off power.
2. Tap off the main 3-phase line voltage and run field-installed wires to the ICM408 control.
3. Connect the field-installed wires to the L1, L2 and L3 connections.
4. Set the DOM time delay to a minimum for testing purposes.
5. Break one line of your control circuit and connect to the COM and N.O. connections on the ICM408.
6. The N.C. connection can be used as an alarm output.
7. Reapply or reconnect power.
8. After the DOM time delay, the unit should energize and the green (load) LED should light.
9. If the red (status) LED is on solid, reverse any 2 line voltage wires ***at the ICM408***. ***DO NOT CHANGE THE WIRING SEQUENCE TO THE UNIT***.
10. If the red (status) LED is flashing, make sure the voltage and unbalance levels are set correctly.

MODE OF OPERATION

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-set parameters, the N.O. contacts open and the red LED 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.

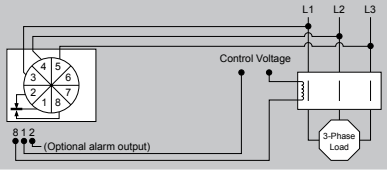
STATUS LED INDICATORS

- ***GREEN LED*** = Load ON
- ***RED LED***:
  - Solid = Phase reversal
  - 1 flash = DOM time
  - 2 flashes = Low voltage
  - 3 flashes = High voltage
  - 4 flashes = Unbalance voltage

SPECIFICATIONS

User Selectable Universal Voltage: 190-480 VAC **Operating Frequency**: 50-60 Hz
User Selectable Unbalance Voltage: 2 to 8% (trips after 6 seconds of unbalance condition)
Power/Phase Loss Detection: Within 100 mS **High/Low Voltage Cut-out:** ± 12% – Detects within 100 mS
Phase Reversal Detection: Detects phase reversal condition on power-up
User Selectable Delay on Make (staggered start) Timer: .1 to 5 minutes
User Selectable Anti-Short Cycle/Delay on Break Timer: .1 to 5 minutes
Heavy Duty SPDT Relay Output: 10A output to operate control circuitry.
Relay Contact Ratings: N.C. contacts: 10A resistive @ 250VAC, N.O. contacts: 10A resistive @ 250VAC
Connection Terminals: Screw down terminals on plug in base provide easy hookup for both line voltage and control circuit wires.
Conformal Coated Circuit: Conformal coated circuit provides protection in extreme environmental conditions.
Storage Temperature Range: -40˚C to +85˚C
Maximum Operating/Storage Relative Humidity: 95% non-condensing

WIRING DIAGRAM



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