



ICM401A

PHASE LOSS & REVERSAL PROTECTION



MODE OF OPERATION

Upon wiring three phase voltage (180-600 VAC) to the **ICM401A** and connecting 24 VAC single-phase voltage to the Y & C terminals, the control will continuously monitor the three-phase line for phase loss and phase reversal. If all voltage conditions are within the specified range, a green light will illuminate on the **ICM401A**, and the Y-OUT terminal will be energized with 24 VAC. Upon a phase loss or a phase reversal, a red fault light will illuminate on the **ICM401A** indicating a fault is presently occurring and the Y-OUT terminal will be de-energized. Once the fault is no longer present and providing the 24 VAC control voltage is still applied at Y & C, the **ICM401A** will automatically re-energize the Y-OUT

SPECIFICATIONS

Input

- **Voltage:** 180-600 VAC
 - **Frequency:** 50-60 Hz
- **Jumper Wire Cut:** 50 Hz
- **Control Voltage:** 18-32 VAC

Output

- **Ratings:**
 - **Type:** Relay
 - **Form:** SPST
 - **N.O.:** 6 amps @ 277 VAC

TROUBLESHOOTING

Red Status Light	Green Status Light	Output (Y-Out)	Operational Status or Fault Condition
OFF	ON	ON	Normal operation and voltage conditions are within the specified range.
ON	OFF	OFF	Phase Loss, phase reversal, or phase unbalance detected. Check phase -phase voltages A-B, B-C, A-C.
OFF	OFF	OFF	24 VAC control voltage is not present

*For any questions with installation or operation, please call our technical support hotline at 1-800-365-5525.

CAUTION

- **High Voltage Shock hazard!**
- **Disconnect all power to the system before making any connections.**
- **Failure to adhere to all safety standards and personal protection when working with high voltage can result in personal injury or death.**
- **Installation of the ICM401A should be performed by trained technicians only. Adhere to all local and national electric codes.**

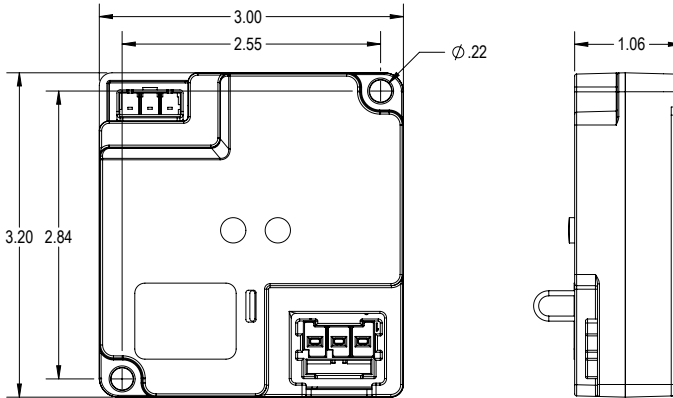
7313 William Barry Blvd., North Syracuse, NY 13212
 (Phone) 315-233-5266 (Toll Free) 800-365-5525
 (Fax) 315-233-5276
www.icmcontrols.com



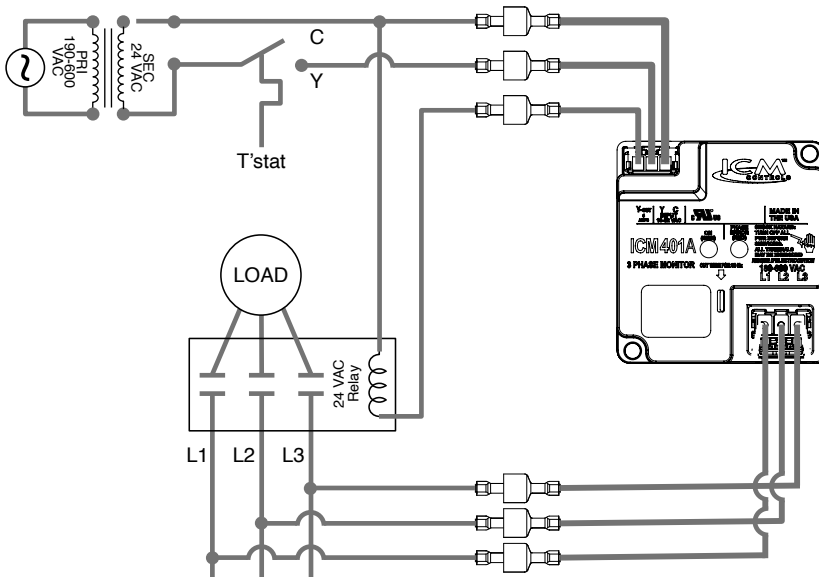
INSTALLATION

1. Using (2) #8 torque screws to 10 + 2in-lb per screw, mount the **ICM401A** in a cool, dry, easily accessible location in the control panel.
2. Connect the line side harness of the **ICM401A** in parallel with the line side of the contactor as shown in figure 1 using the appropriate mating connectors.
3. Connect the low voltage harnesses to the 24 VAC source and contactor coil as shown in figure 1 using the appropriate mating connectors.

DIMENSIONAL DIAGRAM



WIRING DIAGRAM (Fig.1)



LIT P/N	ICM P/N	Size	Created by	MKT Signoff	Date	ENG Signoff	Date	DOC ID#	Date Added to DC