

ICM Controls 9630623 60A Single Phase Line Voltage Monitor **Installation Guide**

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ICM 493-60A Programmable, Single-Phase **Voltage Monitor with Surge Protection**





Installation, Operation & Application Guide For more information on our complete range of American-made products – plus wiring diagrams, troubleshooting tips and more, visit us at www.icmcontrols.com

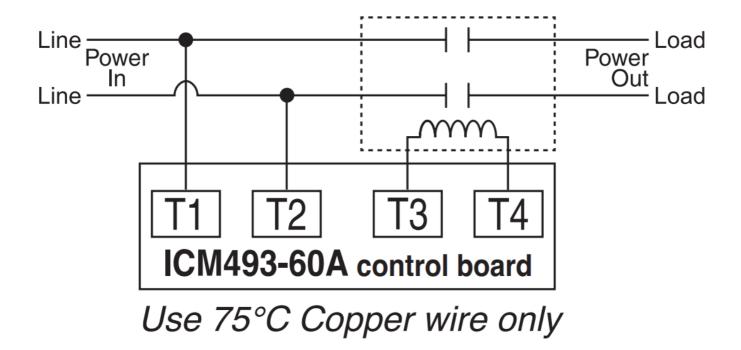
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Wiring Diagram



Important Safety Information



HIGH VOLTAGE WARNING! - Turn off power at the main service panel before installing.

Installation

- 1. Remove cover by extracting the screw from the bottom of the enclosure.
- 2. Remove desired size knock-outs from the enclosure needed to install the required conduits (1/2" or 3/4").
- 3. Mount the enclosure to the desired surface with (4) screws and pull any conduits through the knockouts on the bottom as needed (refer to Fig. 0).
- 4. Rest the front panel door in a vertical position using the contactor bracket as a base of support as seen in Fig.
- 5. Hold the contactor and unscrew the two Phillips head mounting screws on the front of the panel also seen in

- Fig. 1.
- 6. Whilst holding the contactor against the front panel, lay the front panel face down as seen in Fig. 2.
- 7. Rotate the contactor 90 degrees counter clockwise and rest it on its base as seen in Fig. 3. This orientation will give you access to the L1, L3 and T1, T3 terminal screws which are needed to mount the heavy gauge wires of the 60 AMP circuit. CAUTION: DO NOT USE THE 1/4" QUICK CONNECT TERMINALS IN A 60 AMP CIRCUIT.
- 8. Insert the line wires from the incoming power to the L1 & L3 terminals and tighten down the screws as seen in Fig. 4.
- 9. Insert the load (equipment) wires to T1 & T3 and tighten down the screws as seen in Fig. 5.
- 10. Rotate the contactor 90 degrees clockwise, then rotate the whole front panel and contactor assembly 180 degrees counter clockwise so the front panel is facing up and the contactor is resting on its side as seen in Fig.6.
- 11. Adjust the position of the contactor to align the mounting bracket threaded holes with the front panels through holes also seen in Fig. 6.
- 12. Re-insert the two Phillips head screws which secure the contactor to the front panel and tighten down securely seen again in Fig. 6.
- 13. Tilt front panel diagonally and insert the panel into the enclosure as seen in Fig. 7.
- 14. Lay the front panel horizontally in the enclosure and align the holes on the sides of the case one at a time also seen in Fig. 7.
- 15. Using the two larger screws included in the kit, attach the front panel to the enclosure as seen in Fig. 8, (do not overtighten screws).
- 16. Close the hinged front plate and secure the upper right corner into the bracket with the small screw provided in kit as seen in Figures 9 & 10.
- 17. Once settings have been configured, attach the top cover and secure with screw.

Figures



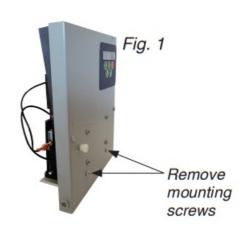




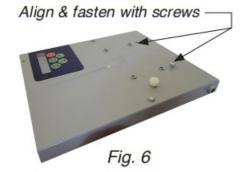


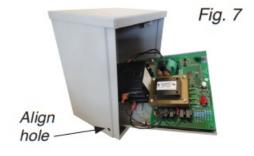


Fig. 4



Fig. 5











Specifications

Input:

- 195-264 VAC
- 50/60 Hz

Contact Ratings:

· Voltage: 240 VAC

FLA: 60ALRA: 360A

Control Operating Temperature:

• Operating temperature: -40°F to 167°F (-40°C to 75°C)

• Storage temperature: -40°F to 185°F (-40°C to 85°C)

• LCD operating temperature: -4°F to 167°F (-20°C to 75°C)

Mechanical:

· Mounting: Four mounting holes in back of enclosure

• Enclosure: NEMA/Type 3R, rain-tight enclosure rated for outdoor installation

• Dimensions: 8"L x 10"W x 6"H

Parameters:

• Line voltage: 200-240 VAC, adjustable

• Over/under voltage setting: 5%-10%, adjustable (under voltage limited to 195 VAC)

• Anti-short cycle time delay: 0.5-10 minutes

Number of trials: 1-5, autoNumber of movistors: 0-5

Setting the Parameters

1. Press the buttontoscrollthroughvarioususer-configurablesettings.

2. Use the buttons to change the set point.

3. When the last parameter has been set, you will return to the read screen.

Button Functions



Press to enter setup mode, and to toggle through user-configurable settings.

Press at any time to return to the Read screen, which will display any faults, the current line voltage, and the number of remaining MOVs.

Press to scroll through past recorded faults. Hold for 5 seconds to clear fault memory.

Press to adjust settings & . Hold for 2 seconds to enter line voltage calibration.

Hold for 2 secs. to reset unit.

Calibration Feature

The ICM493-60A can be calibrated to match the reading from a true RMS meter.

- 1. Measure input voltage from T1 to T2 using a true RMS meter.
- 2. Hold buttonssimultaneouslyuntillinevoltagestartstoflash.
- 3. Adjust voltage using or buttons to match measured voltage from step 1.
- 4. Push button to lock values into memory.

Specifications

Parameter	Description	Range	Recommended
Line voltage	The expected line voltage	200-240	Nameplate voltage**
Over/under voltage	The allowed percentage over and under the e set line voltage	5% to 10%	10% over/under
Anti-short delay	The amount of time delay between the end of a fault, and closing of the contactor	0:30 to 10:00	4 minutes
Reset mode retries	The number of retries after a fault has occurred. Auto has unlimited retries.	1 to 5, Auto	Auto
Allowed MOV fail	The number of surge devices allowed to fai I while maintaining operation. Setting to "5" will allow operation, even when surge prote ction has been exhausted.	0 to 5	Set to "5" for ensured operation. Set to "4" for max. operation while ensuring surge protection.

ONE-YEAR LIMITED WARRANTY

The Seller warrants its products against defects in material or workmanship for a period of one (1) year from the date of manufacture.

The liability of the Seller is limited, at its option, to repair, replace or issue a non-case credit for the purchase prices of the goods which are provided to be defective. The warranty and remedies set forth herein do not apply to any goods or parts thereof which have been subjected to misuse including any use or application in violation of the Seller's instructions, neglect, tampering, improper storage, incorrect installation or servicing not performed by the Seller. In order to permit the Seller to properly administer the warranty, the Buyer shall:

1. Notify the Seller promptly of any claim, submitting date code information or any other pertinent data as requested by the Seller.

2. Permit the Seller to inspect and test the product claimed to be defective. Items claimed to be defective and are determined by Seller to be non-defective are subject to a \$30.00 per hour inspection fee. This warranty constitutes the Seller's sole liability hereunder and is in lieu of any other warranty expressed, implied or statutory. Unless otherwise stated in writing, Seller makes no warranty that the goods depicted or described herein are fit for any particular purpose.



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Documents / Resources



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