



INSTALLATION, OPERATION & APPLICATION GUIDE

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IMPORTANT SAFETY INFORMATION

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

Limited lifetime product. Up to a 3-year \$10,000 connected equipment warranty.



INSTALLATION

1. Remove cover by extracting the screw from the bottom of the enclosure.
2. Remove desired size knock-outs for conduit from the enclosure (1/2" or 3/4").
3. Mount the enclosure to the desired surface.
4. Attach input and output conduit, apply strain relief.

Figure 1



5. Tilt front panel diagonally and insert the panel into the enclosure, as shown in Figure 1.

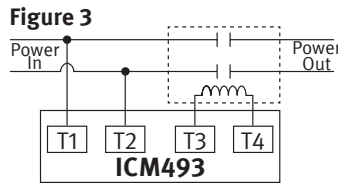
6. Lay the front panel horizontally in the enclosure and align the holes on the side, as shown in Figure 2.

Figure 2



7. Using the two larger screws, included in the kit, and a screwdriver, attach the front panel to the enclosure.

8. Wire L1 and L2 directly to the contactor input and output, as shown in Figure 3.



Use 60°C / 75°C Copper wire only

9. Close the hinged plate and secure the upper right corner into the bracket with the small screw provided in kit.
10. Once settings have been configured, attach cover and secure with screw.

CALIBRATION FEATURE

The ICM493 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 ▲ ▼ buttons simultaneously until line voltage starts to flash.
3. Adjust voltage using ▲ or ▼ buttons to match measured voltage from step 1.
4. Push **SETUP** button to lock values into memory.

SPECIFICATIONS

Input:

- 180-264 VAC
- 50/60 Hz

Contact Ratings:

- **Voltage:** 240 VAC
- **FLA:** 40A • **LRA:** 240A

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 8.25"W x 4.37"H

Parameters:

- **Line Voltage:** 200-240 VAC, adjustable
- **Over/under voltage setting:** 5%-10%, adjustable
- **Anti-short cycle time delay:** 0.5-10 minutes
- **Number of trials:** 1-5, Auto
- **Number of movistors:** 0-5

SETTING THE PARAMETERS

1. Press the **SETUP** button to scroll through various user-configurable settings.
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

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

READ 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.

FAULT 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.

SETUP **FAULT** Hold for 2 seconds to reset unit.

SPECIFICATIONS (CONT.)

Parameter	Description	Range	Default	Recommended
Line Voltage	The expected line voltage	200-240	240	Nameplate Voltage**
Over/Under Voltage	The allowed percentage over and under the set line voltage	5% to 10%	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	0:30	4 minutes
Reset Mode Retries	The number of retries after a fault has occurred. Auto has unlimited retries.	1 to 5, Auto	Auto	Auto
Allowed MOV Fail	The number of surge devices allowed to fail while maintaining operation. Setting to "5" will allow operation, even when surge protection has been exhausted.	0 to 5	5	Set to "5" for ensured operation. Set to "4" for max. operation while ensuring surge protection.

** For best recommendations, consult manufacturer of equipment.