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**APPLICATIONS:** APPLIANCE | ELECTRICAL | HVAC/R | MARINE | POOL & SPA | RV

ICM450A



ICM450A PLUS+



## Stop Motor Burnouts!

For more than two decades, ICM has been an innovator and a recognized leader in the manufacturer of line voltage controls designed to protect your most valuable equipment. The **ICM450A** and **ICM450A PLUS+** are the latest 3-phase offerings, providing superior motor protection from premature failure and damage caused by common voltage faults such as phase unbalance, over/under voltage, phase loss and phase reversal.

A design upgrade from our flagship **ICM450**, these newest models feature an easy to read, backlit display that makes quick work of adjusting the variable settings to better tailor the unit to the application. Common 1/4" spade terminations eliminate the potential for exposed wires and allow for a better and safer connection. Both models also include menu options for English and Spanish readouts.

Additionally, the **ICM450A PLUS+** offers a real time clock for date and time stamp of fault events when they occur along with a Modbus RS485 communications port for communicating with a standard building management system.

Both the **ICM450A** and **ICM450A PLUS+** are proudly manufactured in the USA by ICM Controls.

## FEATURES

	ICM450A	ICM450A PLUS+
✓ Backlit LCD	●	●
✓ Simultaneous 3-phase true RMS voltage monitoring	●	●
✓ Factory calibrated	●	●
✓ 3-phase voltages simultaneously displayed on LCD	●	●
✓ Fault memory	●	●
✓ Fault monitoring: <i>High / low voltage, voltage unbalance, phase loss, phase reversal</i>	●	●
✓ Real time clock, date and time stamped events		●
✓ Simple configuration	●	●
✓ Fully adjustable variables	●	●
✓ Modbus RS485 communications		●
✓ LED indicators	●	●
✓ Common 1/4" quick connect terminations	●	●
✓ English or Spanish menu options	●	●

## SPECIFICATIONS

### INPUT:

- **Line Voltage:** Universal, 190-600 VAC
- **Frequency:** 50-60 Hz
- **Load Side Monitoring:** Optional
- **Control Voltage:** 18-240 VAC

### OUTPUT:

- **Type:** Relay, SPDT
- **Voltage Range:** 277 VAC @ 6A maximum

### CONTROL OPERATING TEMPERATURE

- **Operating Temperature:** -40°F to +149°F (-40°C to +65°C)
- **Storage Temperature:** -40°F to +185°F (-40°C to +85°C)

### MECHANICAL:

- **Mounting:** Surface mount using (2) #8 screws
- **Terminations:** 1/4" quick connects
- **Weight:** 12 ounces (341 grams)
- **ModBus:** RS485 Communication (**ICM450A plus+**)
- **Dimensions:** 6.5" x 4.75" x 1.09"

### ORDERING INFORMATION:

- **ICM450A:** Supersedes ICM450
- **ICM450A PLUS+:** Supersedes ICM450, ICM455

## REPLACES

- |                                               |                          |                              |
|-----------------------------------------------|--------------------------|------------------------------|
| ■ <b>A-1:</b> EAC-800, EAC-8000, EAC-8002     | ■ <b>Mars:</b> PFM-2000  | ■ <b>Time Mark:</b> 265      |
| ■ <b>Copeland:</b> 085-0160-00                | ■ <b>Motorsaver:</b> 455 | ■ <b>Wagner/DiversiTech:</b> |
| ■ <b>Diversified:</b> AC-2020, AC-301, AC-302 | ■ <b>SSAC:</b> QLM, QLV  | DTP-3, WPC-800               |

<b>LIT P/N</b>	<b>ICM PART #</b>	<b>SIZE</b>	<b>CREATED BY</b>	<b>ENG SIGNOFF</b>	<b>DATE</b>	<b>ADDED TO DC BY</b>	<b>DATE</b>	<b>DOC ID#</b>	<b>AGENCY</b>