



APPLICATIONS:

APPLIANCE

ELECTRICAL

HVAC/R

MARINE

POOL & SPA

RV



OVERVIEW

The **ICM870** is intended for marine, recreational vehicle (RV), residential and commercial applications. The **ICM870** integrates compressor or motor in-rush current over startup time, thus reducing peak current demand on a power supply source, such as a generator.

The **ICM870** will monitor system health including voltage, current, compressor startup and self integrity. Upon a fault condition, the **ICM870** will halt operation and initiate a 4-minute anti-short cycle routine while providing diagnostic fault information by means of an LED indicator.

FEATURES

- ✓ Reduces in-rush current/draw necessary at startup by up to 70%
- ✓ Prolongs the life of A/C by reducing excessive torque, wear and tear
- ✓ Built-in dynamic start delay
- ✓ Reduces loud noises, light flickering, and breaker trips
- ✓ Built-in self-learning algorithm
- ✓ Over-current protection
- ✓ Over/under voltage monitoring
- ✓ Built-in start capacitor
- ✓ LED fault indicators
- ✓ Ultrasonically sealed tamper-proof enclosure
- ✓ Installation hardware is included

SPECIFICATIONS

- **Inputs:** L1 & L2
- **Nominal voltage:** 120 VAC, 240 VAC
- **Over voltage limits:** 120 VAC nominal = 140 VAC, 240 VAC nominal = 264 VAC
- **Under voltage limits:** 120 VAC nominal = 95 VAC, 240 VAC nominal = 195 VAC
- **Outputs:** Compressor
- **Current:** Maximum nominal = 9A and 16A
- **Over current limits:**
 - ICM870-9A = 11.25A
 - ICM870-16A = 20A
- **Operating temperature:** -40°F to 131°F (-40°C to 55°C)
- **Storage temperature:** -40°F to 149°F (-40°C to 65°C)
- **Humidity:** 0-95% non-condensing
- **Enclosure:** IP65/Type 4X
- **Dimensions:** 7.63" x 3.19" x 2.13"

REPLACES

The **ICM870-9A** and **ICM870-16A** models replace the amperage-corresponding models from the following manufacturers:

Dometic (SmartStart)
Hyper Engineering (Sure-Start)
Micro-Air (EasyStart)
Network RV (SoftStartRV)
Carlo Gavazzi (SmoothStarter)