



Sentry SmartFuse Single-Phase Line Voltage Monitor and Surge Protection Device with Field Selectable 35-60A Fuses to Match Equipment MOCP

APPLICATIONS:

DATA CENTER / ELECTRICAL / HVAC/R / MARINE / POOL & SPA / RV

OVERVIEW

The Sentry SmartFuse integrates three critical layers of protection in one pre-wired, easy to install solution for residential and commercial single phase 208/240 VAC HVAC/R equipment. The Sentry SmartFuse combines the ICM517A-LITE single phase surge protection device and ICM492D single phase line voltage monitor, with the use of field-selectable fuses for equipment following NEC Code 440.22(A). For added convenience and safety, the Sentry SmartFuse includes an onboard disconnect breaker, giving both technicians and homeowners a fast, simple, and reliable way to cut power during installation or maintenance.

Engineered with a modular layout, the Sentry SmartFuse allows HVAC Technicians a way to streamline installation, replace essential components and adjust fuse rating between 35-60A all within the same enclosure. Contractors can adjust the fuse size to match the equipment nameplate to meet NEC Code 440.22(A), all without accessing the unit's control panel. This integrated approach means HVAC Technician can fully service most units, reducing the need for an electrical license or additional service call.

Individual ICM Controls components are replaceable

FEATURES & BENEFITS

- ✓ For most HVAC installations, the installer does not need an electrical license to install the Sentry SmartFuse
- ✓ Pre-wired for 240 VAC
- ✓ Modular design with field-replaceable parts
- ✓ Programmable voltage monitor with backlit display + 5-fault memory
- ✓ Protects from over/under voltage and rapid short cycling
- ✓ 60A contactor fully disconnects service
- ✓ 60A internal breaker for easy power on/off
- ✓ Superior TFMV surge protection for reliable safety
- ✓ Built to handle major surge impacts
- ✓ Proudly innovated and designed in the USA
- ✓ NEMA 4X outdoor rated (≈ IP66), UL94-5VA flame rating, UV rated
- ✓ UL listed (ICM517A-LITE E347279, ICM492D E53944), UL 508A; meets NEC 440.22(A) 2026
- ✓ Limited lifetime product warranty up to a 3-year \$25,000 connected equipment warranty



WHY SELECTABLE FUSE MATTERS

If an HVAC nameplate states:

- Minimum Circuit Ampacity (MCA): 24A
- Maximum Over Current Protection (MOCP): 45A

Then, following the updated NEC-Code 440.22(A):

- You may install up to a 45A fuse or breaker
- You may NOT install a 50A or 60A breaker

With SmartFuse, MOCP is set by the replaceable fuse, not limited by the upstream breaker, ensuring proper equipment protection and code compliance, even if the conductor size could handle more.

SPECIFICATIONS

Inputs:

- **Line Voltage:** 240VAC
- **Frequency:** 50/60 Hz
- **Breaker:** 60A at 240VAC

Outputs:

- **Contactor:** 60A FLA, 208/240VAC

Surge Protection:

- **Maximum Surge Current:** 60,000 amps
- **Short Circuit Current Rating (SCCR):** 5kA
- **Green LED Light:** Protected when lit
- **Protection Modes:** L-L, L-G

Voltage Monitor (Default Settings):

- **Voltage set point:** 240VAC
- **Delay on Break (ASC):** 15 seconds
- **Over/under voltage:** 5%
- **Delay on Fault:** 2 seconds

Fuses (not included):

- RK1 & RK5 type fuses 35-60A

Mechanical:

- **Case dimensions:** 14"L x 9.75"W x 6"H
- **Unit Weight:** 8.24lbs.

Content and specifications on sell sheets subject to change without notice.