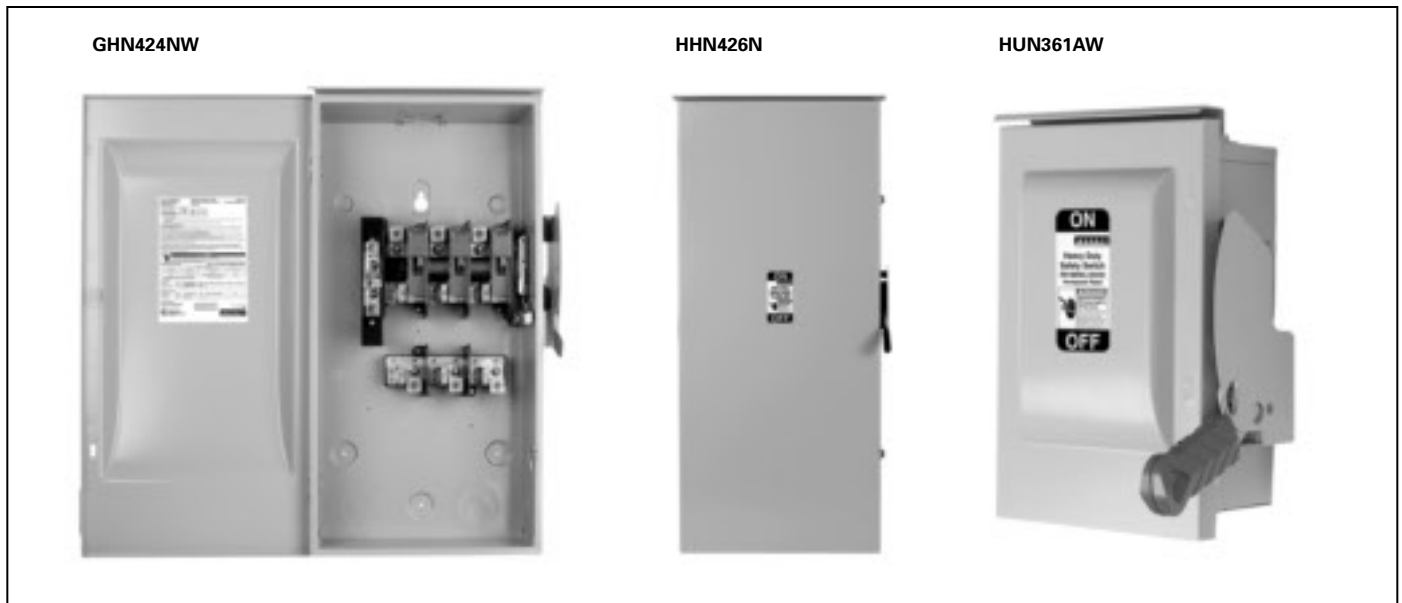


# Safety Switches

## General Description



### Passed The Test of Time

All Murray safety switches have passed rigid testing requirements to assure reliable performance. In addition to tests designed and conducted during the development and manufacturing processes, switches have performed successfully in tests witnessed by Underwriters' Laboratories. These tests include those for general purpose safety switches and those designed for more specialized purposes where applicable.

### Handle Lock-Off

Heavy duty, "H" series safety switches have a provision to lock the handle in the "OFF" position with a maximum of three padlocks. Doors may be locked closed with a padlock. General duty, "G" series switches may be locked in the "OFF" position with one padlock. There is also a padlock feature for locking the door.

### General and Heavy Duty Switches Feature a Time Proven Design

A fast, long lasting switch design with a clean, continuous contact. That's the switching system that gives you on-going reliability. The concept is simple: split the arc to shorten the break distance. Uncomplicated mechanics and common sense design assure reliable performance time after time. All switches through 1200A feature visible blade construction.

### Load Break Ratings

All Murray safety switches are UL Listed for load break applications. Included in this process is a series of repeated make and break tests of the switch contacts while carrying the full rated nameplate current and rated voltage.

### Horsepower Ratings

Where permitted, all Murray safety switches are UL horsepower Listed. The switch ratings are determined by tests that have been performed successfully in the UL overload test series, including repeated make and break tests of the stalled motor current of the motor for which it is being rated.

Some switches have two or more ratings for a particular voltage and current, and additional ratings if designed for multi-pole applications.

Depending on the switch and its application, various ratings may be assigned. All switches list the ratings on the inside of the cover or the door. The ampere rating and maximum AC voltage rating are always shown on the nameplate on the front of the switch.

### Fault Current Performance

Murray Heavy Duty safety switches have successfully passed UL high level fault current tests. This means the risk of mechanical and thermal damage due to high level short circuit currents is minimized due to the reliable switch design.

Suitability tests for service with Class H, R, J, L, and T fuses have been conducted on heavy duty safety switches. Representative switches, with test fuses connected in series with each switch, were subjected to let-throughs in excess of the capacities of the largest fuses acceptable by the switches.

To pass the test, the switch must remain operable after being closed into a high amp available short circuit current. The test fuse is sized so that higher levels of let-through current and energy will be reached than would ever occur during normal usage in the field.

Murray General Duty safety switches have been tested to allow installation on circuits capable of delivering 100,000 AIC of fault current at 240V AC max. with Class R fuses and also with both Class J and T fuses in 100-600A ratings.

### Fuse Interchangeability

General Duty Switches, Prefix G,\* will accept the following UL class fuses:

- Class H
  - Class K
  - Class R — Requires class "R" fuse kit to maintain UL listing.
  - Class J — 100-600A — field convertible.
  - Class T — with proper adapter kit (100-600A).
- \*Except 30 amp plug style switches.

Heavy Duty Switches, Prefix H, will accept the following UL class fuses:

- Class H
- Class K
- Class R — Requires class "R" fuse kit to maintain UL listing.
- Class J — All 30-600A, 600V and 100-600A, 240V switches — field convertible.
- Class L — 800 and 1200A switches only.
- Class T — 100-1200A switches with proper adapter kit.

### Gutter Space

"G" and "H" series safety switch gutter dimensions conform to 2008 NEC Article #312.6(A). Top and bottom gutters conform to Table #312.6(B).