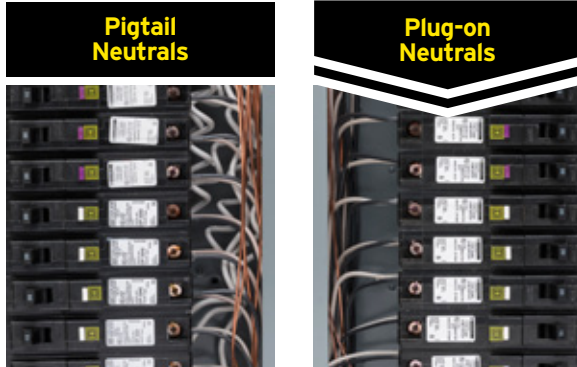


# SAVE TIME AND MONEY...

With Innovative Plug-on Neutral Breakers.

See the difference! Less wiring means less time of installation. Saving you money.



Plug-on Neutral load centers and Combination Arc Fault and Dual Function breakers from Square D simplify installation, saving you time, labor and cost.

## HOW TO SELECT THE RIGHT SQUARE D BREAKER

Icons are located on the packaging of the Arc Fault, Ground Fault and Dual Function breakers. Dual Function breakers will include both icons for Arc Fault and Ground Fault. The yellow "No Pigtail" icon designates Plug-on Neutral style breakers.

	Plug On Neutral	Pigtail	Time Saver Diagnostics
CAFCI	•	•	•
2-Pole CAFCI	—	•	•
GFCI	—	•	—
Dual Function	•	•	•

## TIME SAVER DIAGNOSTICS

Troubleshoot Circuit Issues

Eliminate the guesswork with Time Saver Diagnostics to identify the type of fault that last occurred.

The Time Saver Diagnostics sequence is simple and easy to use and requires no tools or special training.

**Step 1**  
Simply turn off the circuit breaker

**Step 2**  
Hold down the Push-To-Test button.

**Step 3**  
Turn the circuit breaker back on.

- If** the circuit breaker trips immediately, it is detecting a Fault to Ground.
- If** the circuit breaker trips after a 2 second delay, it is detecting an Arc Fault.
- If** the circuit breaker trips after a 5 second delay, it is a thermal overload or short circuit.

In any of these instances, it is an indication that there is an issue ON the circuit and NOT with the circuit breaker itself. (If there is no issue on the circuit to be diagnosed, tripping after a five second delay would also be a normal breaker testing operation.)



For More Information call **1-888-SQUARED (1-888-778-2733)**

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# SQUARE D™ ADVANCED FUNCTION BREAKERS

- GFCI
- CAFCI
- Dual Function (CAFCI + GFCI)



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# THE NATIONAL ELECTRICAL CODE IS EXPANDING

The 2014 National Electrical Code® now requires Combination Arc Fault (CAFCI) protection on all 120V kitchen and laundry area circuits. Ground Fault (GFCI) protection is also required for certain applications such as laundry areas and outlets within six feet of a sink.

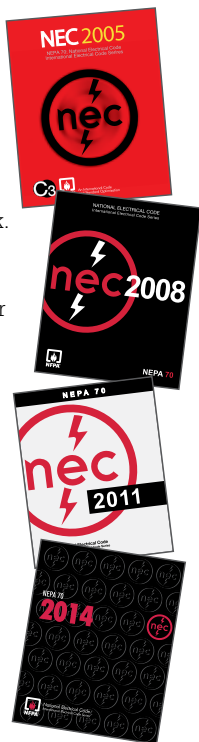
The innovative Square D QO™ and Homeline™ Dual Function Circuit Breaker saves money, space and installation time while meeting prevailing National Electrical Code requirements.

Available in both standard pigtail and time-saving Plug-on Neutral configurations, these circuit breakers combine two critical, state-of-the-art technologies; Combination Arc Fault and Ground Fault (Class A) protection, in one easy-to-install device.

Prior to the Dual Function Circuit Breaker, a contractor's only choice was to use a Combination Arc Fault circuit breaker in conjunction with an expensive, bulky Ground Fault receptacle.

Square D Dual Function circuit breakers give contractors a better solution by reducing cost and eliminating the hassle of using two separate devices to provide critical protection.

**Square D was the first company to introduce a Dual Function device, and they're the only manufacturer to have it available in ¾" (QO) and 1" (Homeline) formats in both pigtail and Plug-on Neutral versions.**



# UNDERSTANDING ADVANCED FUNCTION CIRCUIT BREAKERS

Let's take a look at three state-of-the-art types of circuit breakers that can be installed in a home's distribution system:

- Ground Fault
- Combination Arc Fault
- Dual Function



## Ground Fault Circuit Interrupters (GFCI's)

GFCI's are designed to protect people from the dangers of electrical shock. These circuit breakers are typically installed on circuits where water sources may be present. The National Electrical Code (NEC) requires ground fault circuit protection in the garage, outdoor areas, bathrooms, and in spa areas within the home. The QO and Homeline Ground Fault Circuit Breakers provide Class A protection, sensing and responding to very low levels of ground faults by tripping and shutting off power, preventing serious electrical shock to people.



## Combination Arc Fault Circuit Interrupters (CAFCI's)

CAFCI's provide protection against series and parallel arcs. Arcing is a precursor to many electrical fires. Square D QO and Homeline CAFCI's help protect people and property from fires caused by electrical arcing. These devices continuously monitor the branch circuit and trip when a potentially dangerous condition is detected.



## Dual Function (CAFCI + GFCI) Two critical, state-of-the-art technologies in one device.

The innovative Square D QO and Homeline Dual Function Circuit Breakers combine two critical, state-of-the-art technologies: Combination Arc Fault and Ground Fault (Class A) Protection in one circuit breaker. Dual Function Circuit Interrupters provide a higher level of protection than any other residential circuit breaker. These devices protect the entire circuit on which they are installed, not just a part of the circuit like electronic receptacles do.

## WHAT IS AN ARC FAULT?

An Arc Fault is a discharge of electricity between two or more conductors. Arc Faults cause 30,000 home fires each year, and these fires are responsible for hundreds of deaths and injuries as well as causing hundreds of millions of dollars in damages. Square D™ CAFCI Circuit Breakers increase the protection and safety provided within the home, while reducing the risk of electrical fires.

## TYPICAL CAUSES OF ARC FAULTS:

- Punctured cable or insulation damage by drill, screw, nail or staple
- Worn or damaged extension cords
- Cord insulation damage from furniture
- Sunlight or heat deteriorates insulation

