

Circuit troubleshooting at a glance

Square D[™] QO[™] Combination Arc Fault (AF) and Dual-Function (AFGF) Circuit Breakers with Time Saving Diagnostics LED and TIME SAVER Diagnostics help save time and money by combining proven quality and reliability with enhanced trip indication technology.

With electrical problems sparking an estimated 80,000 home structure fires, causing more than \$2.6 billion in direct property damage each year (National Fire Protection Association®, 2012-2016), circuit breakers are an extremely important part of the home electrical system. They help keep people and property safe by tripping when a circuit issue is detected. QO Combination Arc Fault (AF) and Dual-Function (AFGF) Circuit Breakers help provide protection against electrical fires, 24 hours a day, 365 days a year!

Available in all AF and AFGF circuit breakers, Time Saving Diagnostics LED provides a visual indicator for quick and easy electronic fault diagnostics, saving time and money.



New Dual Function (AFGF) circuit breakers now available New Combination Arc Fault (AF) circuit breakers coming Spring 2022



Fault Indication

TIME SAVER Diagnostics remove the guesswork and provide diagnostic assistance at the touch of a button in the unlikely event a trip should occur. By identifying the type of fault that has occurred, troubleshooting time is improved and contractors can identify the trip cause faster. Should a trip code be stored, the TEST button may be momentarily pressed and then released once rapidly to re-initiate the LED blink pattern without tripping the circuit breaker.

Time Saving Diagnostics LED

Upon power up, the LED will indicate the cause of the previous trip event, without pressing the "TEST" button

| LED lights on solid for 10 seconds then turns OFF | Arc fault |
|---|--|
| LED pulses 2 times | Ground fault |
| LED pulses 4 times | Grounded neutral |
| LED pulses 7 times | Arc Fault protection unresponsive – follow Testing section |
| LED does not turn ON | No fault stored, thermal overload, short circuit |

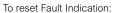


TIME SAVER Diagnostics Instructions

The AFGF circuit breaker provides continuous fault protection. Should a fault occur during the indication procedure, the AFGF circuit breaker will interrupt the fault and protect the circuit.

- Step 1. Place circuit breaker in OFF position
- Step 2. Firmly press and continue to hold the TEST button through Step 4.
- Step 3. Move handle to ON position
- Step 4. Circuit breaker should trip at one of the following times

| Trips Instantly (less than 1 second) | Fault to Ground |
|--------------------------------------|--|
| Trips at 2.0 seconds | Arc Fault |
| Trips at 5.0 seconds | Procedure Complete Includes: no fault, thermal overload, short circuit |
| Trips at 10.0 seconds | Out of memory |



- · Perform the fault indication procedure a total of 6 times.
- · Fault Indication procedure will be verified with a trip at 5 seconds signifying completion.

An automatic reset of Fault Indication will occur if the AFGF circuit breaker has been powered continuously for 27 days.



se.com/us/simplysmarter



Schneider Electric USA, Inc. 6700 Tower Circle, Suite 700, Franklin TN, 37067 888 SQUARED (888-778-2733)