



TIME SAVER Diagnostics

Circuit troubleshooting at a glance

Square D™ QO™ and Homeline™ 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 and Homeline 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 2023

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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

To reset Fault Indication:

- 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.

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