# **OBC Arc Fault Circuit Interrupter** (AFCI) Receptacles

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

### **Description**

2-Pole, 3-Wire Grounding 15A, 125V/AC 20A, 125V/AC





5-20R

5-15R

### **Design features**

- Protects against arc faults in wiring resulting from damaged insulation and other causes that can lead to electrical fires
- Outlet Branch Circuit (OBC) AFCI receptacles protect from series and parallel arcs downstream
- Outlet Branch Circuit (OBC) AFCI receptacles also provide protection from upstream series arcs (no AFCI receptacle from any manufacturer can protect from upstream parallel arcs)
- Tamper resistant products comply with 2014 NEC® Article 406.12 for all dwelling units
- Meets and exceeds Short Circuit Testing and Underwriters Laboratories UL 1699A and UL 498 Safety standards
- Ground termination with backwire clamp provides secure wiring and reduces installation time
- Line side terminals are backed out and staked for fast installation
- When downstream receptacles are wired from load side, a 20 amp feed-through rating offers full protection
- · Tri-combo head terminal and mounting screws



TRAFCI20V

### Table 1. Isolated Ground, Back & Side Wire

Catalog No.	Description	Amps	Volts	Color Suffix
☐ TRAFCI15	Tamper Resistant OBC AFCI Receptacle	15	125	A, B, BK, GY, LA, V, W
☐ TRAFCI20	Tamper Resistant OBC AFCI Receptacle	20	125	A, B, BK, GY, LA, V, W

Compliances, specifications and availability are subject to change without notice.



### Technical Data

### Effective May 2016

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Туре:

### **Applications**

Eaton's Wiring Devices Outlet Branch Circuit (OBC) AFCI receptacles provide protection against unseen arc faults that can result in electrical fires. With a 20A feed-through rating, arc fault protection extends to all down-stream devices and electrical cords when installed properly. Tamper Resistant shutters provide compliance with 2014 NEC Article 406.12 that states that all receptacles installed in dwelling units must be tamper resistant. "TR" designation provides visual identification. Terminal screws are backed out and ready to wire. Durable impact-resistant thermoplastic face and back body are virtually unbreakable.

Table 2. Specifications

Catalog No.	TRAFCI15 & TRAFCI20 Series
Device Type	Outlet Branch Circuit Arc Fault Circuit Interrupter
Wiring Type	Back & side wire
Testing & Code Compliance	<b>cULus Listed</b> to UL1699A and UL498, File no. E341748 Meets all UL 1699A (AFCI) and UL498 (Receptacles) requirements and cULus to CEC part II and CSA C22.2 No. 0 and C22.2, No.42
Warranty	2-Year, Limited
Environmental Specifications	Flammability: Meets UL94 requirements; V2 rated Temperature Rating: -35°C to 66°C (-31°F to 150.8°F) Operating Areas: Indoor use Relative Humidity: 98% RH; non-condensing
Electrical Specifications	Dielectric Voltage: Withstands 2000V per UL498 Current Interrupting: Yes, at full-rated current Temperature Rise: Max. 30°C (86°F) after 100 cycles of overload @ 150% of rated current (DC) Trip Time: >110ms @ Series Arcs above 30A Frequency: 60 Hz; Voltage: 125V; Amperage: 15A/20A 20A Feed Through Short Circuit Testing: Meets and exceeds 10 kA Max. Interrupt Capacity: 20A
Mechanical Specifications	Terminal Accommodation: #14 - #10 AWG Voltage Ratings: Permanently marked on device

Table 3. Materials

Catalog No.	TRAFCI15 & TRAFCI20 Series		
Top Housing	Nylon		
Bottom Housing	PVC		
Strap	Steel		
Line Contacts	Brass		
Ground Contact	Brass		
Terminal Screws	#8-32 steel, brass plated; neutral screw nickel plated		
Ground Screw	#8-32 steel, zinc plated, green	#8-32 steel, zinc plated, green	

### **Table 4. Color Ordering Information**

For ordering devices, include  $\widetilde{\text{Cat}}$ . No. followed by the color code: A (Almond), B (Brown), BK (Black), GY (Gray) LA (Light Almond), V (Ivory), W (White)



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### **Product Dimensions**

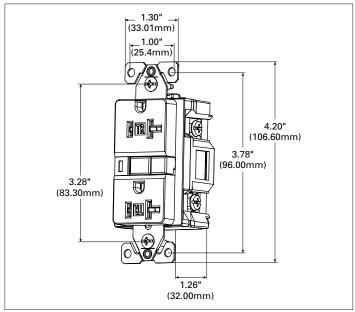


Figure 1. TRAFCI20

# 3.28" (83.3mm) 1.30" (25.4mm) 4.20" (106.6mm) 3.78" (96.0mm) 1.26" (32.0mm)

Figure 2. TRAFCI15

### **Wiring Diagrams**

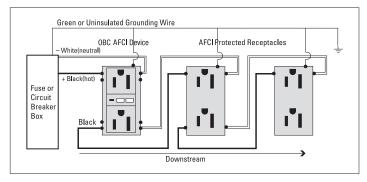


Figure 3. OBC AFCI: Feed-Through Installation with Protection Provided Downstream

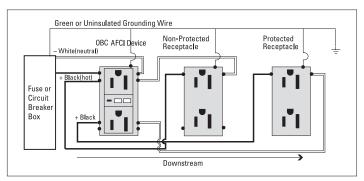


Figure 4. OBC AFCI: Feed-Through Installation with Both Protected and Non-Protected Receptacles Downstream

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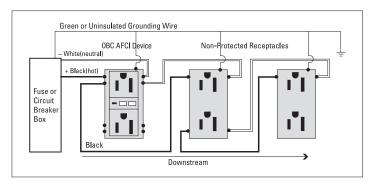


Figure 5. OBC AFCI: Feed-Through Installation with Non-Protected Receptacles Downstream

## Certifications & Compliances

Catalog No.	c (ՄL) us	
TRAFCI15	•	
TRAFCI20	•	

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