

## Residential Fuse Panel Inserts <sup>①</sup>

- ◆ Convenient and economical option to completely replacing an entire fuse panel assembly.
- ◆ Original fuse panel tub and wiring remains in place and only the fuse panel trim and interior is removed and replaced.
- ◆ 16 and 24 circuit breaker interiors designed to fit any manufacturers' fuse panel or discontinued design circuit breaker panel.
- ◆ Custom trim and door oversized to ensure fit with existing tub.
- ◆ Circuit breaker interior replacement eliminates the possibility of improperly sized amperage protection.
- ◆ No more loose fuses causing arcing and damage to the panel or wiring.
- ◆ CSA certified to mount into any existing box under file LL264-222.
- ◆ Can be mounted in any orientation as defined by the existing fuse panel tub orientation.
- ◆ Accepts plug-in type BR, DNPL, or GFCB circuit breakers. (Circuit breakers sold separately. Refer to pages 13 - 16 for selection)
- ◆ Trim comes complete with hinged door, non-locking spring latch, clear plastic card holder, and circuit directory card.
- ◆ Tin plated aluminum bus bars.

## Product Description

Fuses and Fuse Panels were designed decades ago, to prevent the overload of circuit wiring that could lead to fires caused by overloaded electrical circuit connections and / or short circuits. Records show however, that problems of fire and smoke inhalation are the more serious causes of death or injury.

Since early 1960's, technology has allowed a tremendous increase in the number and use of appliances, tools, and control systems, many of which are automatically controlled and cycle on and off. We now know that a cycling load will actually cause a plug (screw-on-type) fuse to loosen in its holder (that explains why you can always find one or two fuses that can be tightened a quarter turn). Loose connections such as these develop heat, and in turn increase the risk of fire.

Small overloads can be absorbed by the margin of safety built into CSA certified devices. However, prolonged overloads or loose fuses will cause arcing and ultimately, melting of the connections in either the panel or wiring, wherever the weakest link may be.

Eaton has designed a low cost method of replacing Fuse Panels with modern Circuit Breaker Panels. This method eliminates the need for cutting, re-plastering and repainting the walls around the old panel.

Another risk with the old fuse panel design was the ease with which incorrect fuses could be used or changed without realization of the risks involved.

To eliminate these potential hazards Eaton has a new circuit breaker interior and trim kit that will quickly upgrade the existing installation to today's electrical standards and needs. An average upgrade takes one hour and thus creates the minimum of inconvenience to the homeowner/occupant.

## Sample Specification

- Supply and install a new circuit breaker interior to replace existing plug fuse panel interior or out of date circuit breaker interior in each apartment or condominium.
- Interior to be 16 or 24 circuit, rated 100A and 120/240V, designed in a single row breaker arrangement for fitting into existing recessed electrical panels.
- Supply and install new Trim & Door Assembly slightly larger than discarded fuse trim to minimize any requirements for patching or repainting.
- Bus bars shall be tin plated aluminum suitable for plug-in circuit breakers.
- Supply and install a Trim and Door Assembly with latch, to protect the circuit breaker toggle handles.
- Inserts must be CSA certified for mounting in any position, for ease in connecting to existing wiring.
- Install circuit breakers with ratings as indicated in specifications or drawings.
- Interiors to be mounted with directions template and hardware supplied by Eaton.
- Inserts, Trim & Door Assembly and circuit breakers, shall be manufactured by Eaton.
- Provide a Circuit Identification Card, mounted under clear plastic on the inside of the door.

<sup>①</sup> Not for use as service entrance equipment..

# Residential Fuse Panel Inserts

## Insert Interiors

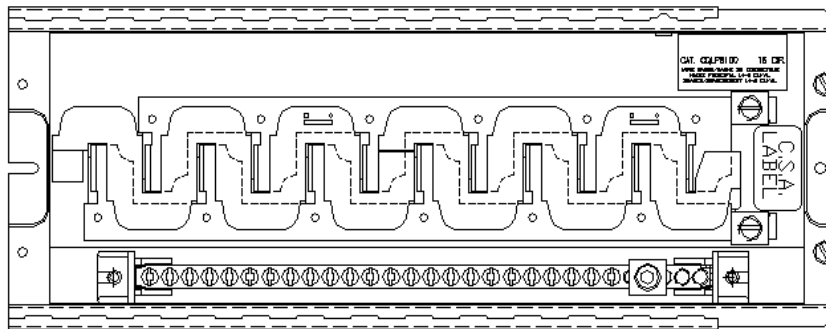
### Residential Fuse Panel Insert Interiors

- ◆ 100A Single phase 3 wire 120/240VAC.
- ◆ 16 and 24 circuit breaker capacity. <sup>①</sup>
- ◆ CSA certified to mount into any existing box under file LL264-222.
- ◆ Accepts plug-in type BR and DNPL circuit breakers. <sup>① ③</sup>
- ◆ Tin plated aluminum bus bars.
- ◆ Neutral available with 16 or 24 Cu/Al terminals.
- ◆ Main and neutral lugs located at the same end.
- ◆ All terminals accept #14-3AWG cabling.

### Product Selection

**Table 75. 3 Wire 120/240VAC Fuse Panel Insert Interiors**

Catalogue Number	Drilling Template Catalogue Number <sup>②</sup>	Amperage Rating (A)	Voltage (V)	Number of Installable Circuit Breakers		Bus Material	Neutral Material	Wire Size Range Cu/Al
				1" Spaces	1/2" Spaces			
CQLP8100	CSABP4683B	100	120/240	8	16	Aluminum	Aluminum	#14-3 AWG
CQLP12100	CSABP4734B	100	120/240	12	24	Aluminum	Aluminum	#14-3 AWG



<sup>①</sup> Refer to pages 13-16 for plug-in circuit breaker selection.

<sup>②</sup> We suggest the use of templates to ensure proper sizing for installation.

<sup>③</sup> Filler plates for unused fuse panel insert circuit breaker installation locations can be ordered as BRFP (package of 24).