



Section 8 Stab-lok™ Circuit Breakers

Stab-lok™ ...easier to work with and faster to install

Stab-lok™ breakers are fully interchangeable with all past breakers and deliver the same proven quality. The unique Stab-lok™ breaker design of only a 1/2" wide per pole, allows for the reduction of the size and weight of the loadcentre. These breakers are CSA approved to work only in Federal Pioneer branded residential panels.

Stab-lok™ breakers are easily identifiable by their unique architectural white colour and colour handles.



Stab-lok™ Breaker Features:

- Provides overload and short circuit protection.
- Colour coded handles: identification is quick and easy with separate colours representing different ampere ratings.
- Provides Slot/Robertson screws.
- Thermal magnetic trip protection.
- Calibrated at 40 degrees Celsius.
- Arc resistant case.

FAST FACTS

2 Pole Stab-lok breakers must be installed 'across' the black dividers on the busbar for 240V output voltage.



Circuit Breaker Product Selection Guide

Plug-On Circuit Breakers Selection - 10,000 AIR

Amp Rating	Type	One Pole 120 Vac	Lug Range	Two Pole 240 Vac	Lug Range
15 A	NC	NC015CP ^①	#14-#6	NC0215CP	#14-#6
20 A		NC020CP ^①		NC0220CP	
25 A		NC025CP		NC0225CP	
30 A		NC030CP		NC0230CP	
40 A		NC040CP		NC0240CP	
50 A		NC050	#14-#4	NC0250CP	#14-#4
15 A	NA	NA15CP _u	#14-#2	NA215CP	#14-#2
20 A		NA20CP _u		NA220CP	
25 A		NA25		NA225CP	
30 A		NA30		NA230CP	
40 A		NA40		NA240CP	
50 A		NA50		NA250CP	
60 A			NA260CP		
70 A			NA270CP		
100 A				NA2P100CP	#4-2/0
125 A				NA2P125CP	#4-2/0
150 A			NA2P150CP ^②	#4-2/0	

① Single Pole 15 A and 20 A breakers are Switching Duty Rated (SWD).
Suitable for switching 120 Vac fluorescent lighting loads.

② NA2P150 rated 150 A when used with copper conductor only.

Notes:

- 1 Pole NA breakers take 2 NC breaker spaces.
- 2 Pole NA breakers take 4 NC breaker spaces.
- Use solid conductor only when #14 wire is used.

Colour coded breaker handles:

NC015CP/NC0215CP - Black/Blue

NC020CP/NC0220CP - Red

NC030CP/NC0230CP - Green

NC040CP/NC0240CP - Grey

Greater than 50A breakers - Black



Stab-lok One Pole Breaker
1 Space Required



Stab-lok Two Pole Breaker
2 Spaces Required



Stab-lok Two Pole (NA) Breaker
4 Spaces Required

Stab-lok™ Ground Fault Breakers

The Federal Pioneer ground fault circuit interrupter protects people against electrical shocks. GFCI protection is required in wet or damp areas such as bathrooms, kitchens, garages, spas, pools and outdoor receptacles.

Stab-lok™ Ground Fault Circuit Breaker Features:

- Provides overload, short circuit protection combined with Class A ground fault protection.
- Class A denotes a GFCI that will trip when a fault current to ground is 5 milliamperes or more.
- 10,000 Amperes Interrupting Rating (AIR).
- Red push to test button.
- Use solid conductor only when #14 wire is used.

Plug-On Ground Fault Circuit Breakers Selection

Amp Rating	One Pole 120 Vac	Two Pole Common Trip 240 Vac
GFI with 5 mA Sensitivity (Class A)		
15 A	NAGF15CP*	OBS
20 A	OBS	OBS
30 A	OBS	OBS
40 A	OBS	OBS

Notes:

- Do not connect to more than 250 feet of load conductor for the total one-way run to prevent nuisance tripping.
- Submersible pump installations require ground fault protection to the maximum sensitivity level of 10mA.

* Obsolete when stock = 0



NA One Pole GFI Breaker
2 Spaces Required



NA Two Pole GFI Breaker
4 Spaces Required

FAST FACTS

GFCI breakers detect small amounts of current mismatch between the neutral and hot conductors.

Stab-lok™ Arc Fault Breakers

Featuring exclusive digital technology, the Stab-lok D Arc Fault Circuit Interrupter (AFCI) detects overloads, short circuits and arc-faults. The AFCI effectively stops the flow of current before an electrical fire can start.

An arc fault is an unintended arc created by current flowing through an unplanned path. Arcing creates high intensity heating at the point of the arc and as a result, burning particles may be expelled that may easily ignite surrounding materials, such as wood framing or insulation. The temperature at the center of these arcs can exceed 10,000°F.

Stab-lok™ Arc Fault Circuit Breaker Features:

- Detects unintended arc faults, overloads and short circuits.
- Patented digital technology to provide unequalled protection against electrical fires.
- Requires 2 spaces in loadcentre.
- Green push to test button.
- Familiar installation procedure - Installation is similar to that of a ground-fault circuit interrupter.



15 A Arc Fault Breaker
2 Spaces Required

Plug-On Arc Fault Circuit Breakers Selection

Amp Rating	One Pole 120 Vac
	10,000 AIR
15 A	NA15AFICP
20 A	NA20AFICP

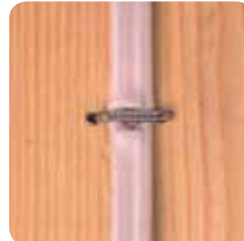
Typical Causes of Dangerous Arc Faults in a Residence



Nails or screws carelessly driven into walls



Drywall Screw Piercing Insulation



Punctured Cable by Nail or Staple



Cords Caught in Door Jams

FAST FACTS

What is the difference between AFCI and GFCI?

A GFCI is a people protection breaker. It is used to protect people from energized parts connected to receptacles.

The AFCI is a fire prevention breaker. It is used to protect against faults or damage to wiring and equipment that could start fire causing arcing in the circuit.

Stab-lok™ Main Breakers

Stab-lok™ Main Breaker Features:

- Provides option for padlock in “OFF” position.
- Bolt on main breaker for Stab-lok™ service entrance panels.

Bolt on Main Breaker Selection

Ampere Rating	Type	Part Number	Lug Wire Size
60 A	1C	1C60	#4-2/0
100 A	1C	1C100	#4-2/0
125 A	1C	1C125	#4-2/0



100A Main Breaker

Stab-lok™ Accessories

Accessory Selection

Accessory	Description	Catalogue Number
Filler Plates	Fills branch breaker openings in cover	PF1CP
Replacement Amalgamated Electric Fuse Holders	Twin Single Pole Plug-In Head 15 to 30A	7301CP
	Two Pole Plug-In Fuse Head 15 to 30A	7302CP
Handle Tie	Suitable for square handled NC breakers.	HTNCCP
Handle Lock Off Handle Tie	Non-Padlocking Suitable for ribbed handled NC 1 + 2 pole breakers.	NC-LOK



PF1CP



7301CP



7302CP



HTNCCP



NC-LOK