

Section 1 HomeLine™ Circuit Breakers

Unsurpassed Qwik-Open Protection

Canadian HomeLine™ circuit breakers provide the high level of protection you expect from Schneider Electric. The industry's best value in circuit protection in a one inch wide industry-standard format for one-pole circuit breakers. HomeLine™ breakers feature Qwik-Open™ circuit breakers, which give homeowners a new standard for reliable, fast acting circuit protection, a full range of breakers including tandem and quad breakers and the unique limited lifetime warranty.

HomeLine circuit breakers are designed exclusively for the residential market.

HomeLine™ Circuit Breaker Features:

- Provides overload and short circuit protection.
- Accepts Al/Cu conductors.
- Accepts 60/75°C wire up to 40 A, 75°C wire over 40 A.
- CSA listed for HACR.
(Heating, air-conditioning and refrigeration equipment).
- Standard – 1" per pole
 - Twin – ½" per pole
 - Quad – ½" per pole
- SWD (switching duty) rated for 1" 15 A and 20 A breakers. Suitable for switching 120 Vac fluorescent lighting loads.
- CSA approved to only install in Canadian HomeLine™ loadcentres.
- Exclusive Qwik-Open™ protection is standard on all 15 A and 20 A circuit breakers—trip reaction within 1/60th of a second.
- Limited Lifetime Warranty. See page 66.

Circuit Breaker Product Selection Guide

Plug-On Circuit Breakers Selection - 10,000 AIR

Amp Rating	One Pole 120 Vac	Lug Range	Two Pole 240 Vac	Lug Range
15 A	CHOM115CP ⓘ	#14-#8	CHOM215CP	#14-#8
20 A	CHOM120CP ⓘ	#14-#8	CHOM220CP	#14-#8
25 A	CHOM125CP	#14-#8	CHOM225CP	#14-#8
30 A	CHOM130CP	#14-#8	CHOM230CP	#14-#8
35 A			CHOM235	#8-#2
40 A	CHOM140CP	#8-#2	CHOM240CP	#8-#2
50 A	CHOM150CP	#8-#2	CHOM250CP	#8-#2
60 A			CHOM260CP	#8-#2
70 A			CHOM270CP	#8-#2
80 A			CHOM280CP	#4-2/0
90 A			CHOM290CP	#4-2/0
100 A			CHOM2100CP	#4-2/0
125 A			CHOM2125CP	#4-2/0
150 A			CHOM2150BB	#4-300mcm
175 A			CHOM2175BB	#4-300mcm
200 A			CHOM2200BB	#4-300mcm

ⓘSWD - Suitable for switching 120 Vac fluorescent lighting loads.

All CHOM 1 & 2 pole breakers CSA listed as HACR type for use with air conditioning, heating and refrigeration.

High Magnetic Breakers Selection

Amp Rating	One Pole 120 Vac	Lug Range
15 A	CHOM115HM ⓘ	#14-#8
20 A	CHOM120HM ⓘ	#14-#8

ⓘHigh magnetic breakers are recommended for applications where high initial inrush current may occur.

FAST FACTS

What is Power?
Power is the rate of doing work measured in Watts.
Watts=Volts x Amps
1 HP = 746 Watts



CHOM115HM



HomeLine™
One Pole Breaker
1 Space Required



HomeLine™
Two Pole Breaker
2 Spaces Required



HomeLine™
Two Pole Breaker 200A
4 Spaces Required

Circuit Breaker Product Selection Guide

Tandem and quad space saver circuit breakers are ideal for adding additional circuits to an existing HomeLine™ panel with limited space. Adding tandem or quad breakers double the number of circuits in a panel.

Tandem (Space Saver) Circuit Breakers Selection - 10,000 AIR

Amp Rating	One Pole 120 Vac 1 Space Required	Lug Range	Two Pole 120/240 Vac 2 Spaces Required
15 A & 15 A	CHOMT1515CP	#14-#8	Order Two Tandem Circuit Breakers and Handle Tie Catalogue #HOMTHT
15 A & 20 A	CHOMT1520CP	#14-#8	
20 A & 20 A	CHOMT2020CP	#14-#8	
30 A & 15 A	CHOMT3015CP	#14-#8	
30 A & 20 A	CHOMT3020CP	#14-#8	



HomeLine™
Tandem Breaker
1 Space Required

Quad (Space Saver) Circuit Breakers Selection - 10,000 AIR

Amp Rating 1 Pole	Amp Rating 2 Pole	2 One Pole, 1 Two Pole 120/240 Vac	Lug Range
15 A	15 A	CHOMT1515215CP	#14-#8
15 A	20 A	CHOMT1515220CP	#14-#8
15 A	25 A	CHOMT1515225	#14-#8
15 A	30 A	CHOMT1515230CP	
15 A	40 A	CHOMT1515240CP	
15 A	50 A	CHOMT1515250CP	
20 A	20 A	CHOMT2020220CP	
20 A	25 A	CHOMT2020225	
20 A	30 A	CHOMT2020230CP	#6-12 #6-14 Cu
20 A	40 A	CHOMT2020240CP	#6-12 #6-14 Cu
20 A	50 A	CHOMT2020250CP	#6-12 #6-14 Cu



HomeLine™
Quad Breaker
2 Spaces Required

Quad breakers have two single pole outer circuits, and one double pole inner circuit with common trip.

All CHOM 1 & 2 pole breakers are CSA listed as HACR type for use with air conditioning, heating and refrigeration.



HomeLine™ Ground Fault Circuit Breakers

The HomeLine™ Ground Fault Circuit interrupter (GFCI) protects people against electrical shocks. GFCI protection is required in wet or damp areas such as bathrooms, kitchens, garages, spas, pools and outdoor receptacles. Do not connect to more than 250 feet of load conductor for the total one-way run to prevent nuisance tripping. Use solid conductor only when #14 wire is used.

HomeLine™ Ground Fault 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).
- Limited Lifetime Warranty. See page 66.
- CSA approved to only install in Canadian HomeLine™ loadcentres.

Plug-On with 5 mA Sensitivity GFCI Breakers Selection

Amp Rating	One Pole 120 Vac	Two Pole Common Trip 240 Vac
	10,000 AIR	10,000 AIR
15 A	CHOM115GFI	CHOM215GFI
20 A	CHOM120GFI	CHOM220GFI
25 A		CHOM225GFI
30 A		CHOM230GFI
40 A		CHOM240GFI
50 A		CHOM250GFI



HomeLine™
One Pole GFI Breaker
1 Space Required

Plug-On EPD with 30 mA Sensitivity GFCI Breakers Selection

Amp Rating	One Pole 120 Vac	Two Pole Common Trip 240 Vac
	10,000 AIR	10,000 AIR
15 A	CHOM115EPD	CHOM215EPD
20 A	CHOM120EPD	CHOM220EPD
30 A		CHOM230EPD
40 A		CHOM240EPD
50 A		CHOM250EPD



HomeLine™
Two Pole EPD Breaker
2 Spaces Required

Designed to protect equipment such as heat trace from damage (Class B per ICES-003), the ground-fault protection level is 30 mA.

The CEC allows the use of an EPD for heat trace, to prevent freezing of pipes, rain gutters, etc. Other applications include protection of equipment such as well pumps and other electrical equipment in the home or garage.

FAST FACTS

Schneider Electric introduced the first ground fault circuit interrupter (GFCI) in 1967.

HomeLine™ Combination Arc Fault Circuit Breakers

Featuring exclusive digital technology, the HomeLine™ 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. Beginning in 2015, the Canadian Electrical code will require the use of Combination Arc Fault Circuit Interrupters (CAFCIs) in each branch circuit supplying 125V receptacles rated 20A or less (except in the kitchen, bathrooms, sump pump). HomeLine™ CAFCI breakers are available in both pigtail and plug-on (pigtail less) formats, 1 pole/2 pole, and 15A/20A versions.

HomeLine™ Combination Arc Fault Circuit Breaker Features:

- Detects unintended arc faults, overloads and short circuits.
- White push to test button.
- Plug-on CAFCI breaker helps minimize installation time by reducing the number of runs and wires. Results in cleaner and faster wiring, ideal for inspections.
- The HomeLine™ Plug-on (pigtail less) CAFCI breaker can only be installed in HomeLine™ Plug-on neutral ready loadcentres. See Page 15.
- Saves time - equipped with TIME SAVER diagnostics feature that assists in identifying the type of fault in a circuit.



Pigtail Neutral CAFI Selection

Amp Rating	One Pole 120 Vac	Two Pole Common Trip 240 Vac
	10,000 AIR	10,000 AIR
15 A	CHOM115CAFI	CHOM215CAFI
20 A	CHOM120CAFI	CHOM220CAFI

Plug-on Neutral CAFI Selection

Amp Rating	One Pole 120 Vac	Two Pole Common Trip 240 Vac
	10,000 AIR	10,000 AIR
15 A	CHOM115PCAFI	N/A
20 A	CHOM120PCAFI	N/A

TIME SAVER Diagnostics

All HomeLine™ combination arc fault circuit breakers come with a TIME SAVER diagnostics feature that assists in identifying the type of fault that has occurred when the breaker has tripped.

- Requires no tools - easy to use.
- Saves money and time.
- How to use: turn off the circuit breaker, HOLD DOWN the Push-to-test button, and then turn the circuit breaker back on. Use the chart below to determine fault

Trips Instantly (Less than 1 Second)	Fault to Ground - Arcing to Ground - Grounded neutral - Shared neutral - Ground Fault
Trips at 2 Seconds	Arc Fault - Parallel Arc Fault - Series Arc Fault
Trips at 5 Seconds	Procedure Complete - No Fault - Thermal Overload - Short Circuit



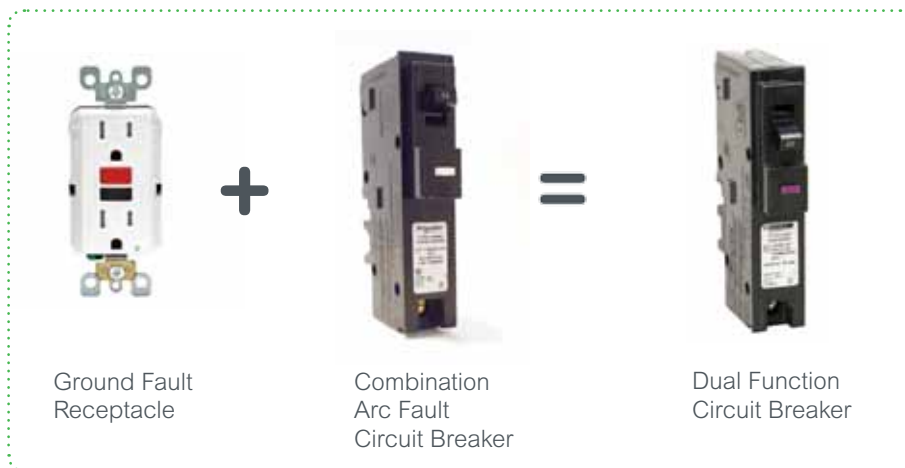
HomeLine™ Dual Function Circuit Breakers

HomeLine™ Dual Function circuit breakers combine combination arc fault and ground fault protection in a single device. The dual function circuit breaker meets the 2015 Canadian Electrical code requirements for arc fault protection in the home, while also offering (Class A - people protection) ground fault protection.

This unique combination saves space in the panel and installation time for the homeowner or contractor, replacing the arc fault breaker and a ground fault receptacle combination. Ideal for the bedroom and bathroom, where one dual function breaker can arc fault protect the bedroom and ground fault the en suite bathroom. Another application is an outdoor receptacle where the dual function breaker can provide arc fault and ground fault protection inside the home instead of exposed to the outdoor weather. With the built in TIME SAVER diagnostics feature, trouble shooting a fault is easier and faster.

HomeLine™ Dual Function Circuit Breaker Features:

- Detects unintended arc faults, ground faults, overloads and short circuits.
- Purple push to test button.
- Offered in both pigtail and non pigtail versions.
- Plug-on version helps minimize installation time by reducing the number of runs and wires. Ideal for inspections.
- Saves time - equipped with TIME SAVER diagnostics feature that assists in identifying the type of fault in a circuit. See page 9 on how to use this function.



Pigtail Neutral Selection

Amp Rating	One Pole 120 Vac
	10,000 AIR
15 A	CHOM115DF
20 A	CHOM120DF

Plug-on Neutral Selection

Amp Rating	One Pole 120 Vac
	10,000 AIR
15 A	CHOM115PDF
20 A	CHOM120PDF

FAST FACTS

Ontario Office of the Fire Marshal's data "suggests that by providing outlet branch circuit AFCI only, the number of fires could be reduced by 16.5% to 43.9%"

Source: Nancy Hanna, Electrical Business March 2014

HomeLine™ Main Circuit Breakers

Standard 22,000/10,000 ampere series short circuit current rating on main breaker panels provides increased application capability. Main breakers are bolt-on for all residential service entrance loadcentres.

HomeLine™ Main Breaker Features:

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

Bolt-on Main Breaker Selection

Ampere Rating	Part Number	kAIC	Lug Range	Frame Size
30 A	QOM30L	10	#12-2/0	QOM1
40 A	QOM40L	10	#12-2/0	QOM1
50 A	QOM50VHL	22	#12-2/0	QOM1
60 A	QOM60VHL	22	#12-2/0	QOM1
70 A	QOM70VHL	22	#12-2/0	QOM1
80 A	QOM80VHL	22	#12-2/0	QOM1
100 A	QOM100VHL	22	#12-2/0	QOM1
125 A	QOM125VHL	22	#12-2/0	QOM1
100 A	QOM2100VHL	22	#4-300mcm	QOM2
125 A	QOM2125VHL	22	#4-300mcm	QOM2
150 A	QOM2150VHL	22	#4-300mcm	QOM2
200 A	QOM2200VHL	22	#4-300mcm	QOM2
225 A	QOM2225VHL	22	#4-300mcm	QOM2

Main Breakers include factory installed handle padlock attachment (padlock QOM main circuit breaker in the 'off' position).



QOM1 Frame Size Main Breaker



QOM2 Frame Size Main Breaker

Circuit Breaker Wire Sizes

Breaker Type	Ampere Rating	Wire Size (AWG)	
		Aluminum	Copper
CHOM 1 Pole	15-30	#14-8	(2) #14-10
	45-50	#8-2	#8-2
CHOM 2 Pole	15-30	#14-8	#14-8 or (2) #14-10
	35-70	#8-2	#8-2
	80-125	#4-2/0	#4-2/0
CHOM Tandem and Quad	15-30	#14-8	#14-8
CHOM GFI - 1P	15-20	#14-10	#14-10
CHOM GFI - 2P	15-50	#12-4	#14-6



HomeLine™ Circuit Breaker Accessories

Accessory Selection

Accessory	Description	Catalogue Number
Handle Attachments		
Handle Tie	Converts any 2 adjacent 1P CHOM circuit breakers to independent trip 2P.	HOM1HT
	Converts any adjacent 1P side by side CHOM Tandem breakers to independent 2P	HOMTHT
Handle blocking device	Attaches to a CHOM 2P breaker for holding the handle in the OFF position.	HOM2HBD
Handle lock	ON or OFF, padlocking HomeLine 1P 15-50A circuit breaker.	HOM1PA
HomeLine handle lock ON or OFF, Padlocking		
	- Handle padlock attachment, for padlocking 1P CAFI, DF, GFI, and EPD HOM breakers in the ON or Off position	HOMELEC1PA
	- Handle padlock attachment, for padlocking 2P CAFI, DF, GFI, and EPD HOM breakers in the ON or Off position	HOMELEC2PALA
	- Handle padlock attachment, for padlocking 2P 15-70A	HOM2PALA
	- Handle padlock attachment, for padlocking 2P 80-125A	HOM2PAHA
	- Handle padlock attachment, for padlocking 2P 150-200A	HOM2PAVHA
	Handle padlock attachment, for padlocking centre poles of CHOM quad breakers in the OFF position	HOMQPA
	Handle lock, OFF for QOM1 50-125A Main Circuit Breaker	QOM1PA
	Handle lock, OFF for QOM2 100-225A Main Circuit Breaker	QOM2PA
Sub-feed Lugs		
	125A 2P plug-on - 2 spaces required	HOML2125
	225A 2P plug-on - 4 spaces required	HOML2225



HOM1HT



HOM1PA



HOM2PALA



HOM2PAVHA