

Product Focus

Type CH Loadcentre With Plug-on Neutral

Delivers a time saving installation

EATON

Powering Business Worldwide

Celebrating
100 YEARS
Ideals that Endure

CH Loadcentre

The Eaton type CH loadcentre features silver flash plated, copper bus in all interiors. Stabs are rated 200 amperes throughout the CH line. Therefore the sum of the ratings connected to any one stab is limited to 200 amperes.

The NEMA 1 enclosures are manufactured from cold rolled 16 gauge sheet steel. All boxes are finished in a Sandalwood colour, using an electrostatic powder coat, baked urethane paint process.

The CH loadcentres are certified to CSA C22.2 No. 29 file LR98266.

Plug-On Neutrals

The single phase main circuit breaker panels are supplied with a factory-bonded twin neutral.

The new CH line of loadcentres also feature a plug-on neutral design. Higher safety standards are leading to more Arc Fault Circuit Interrupter (AFCI) installations. With the electrical contractor in mind, Eaton has revolutionized the way AFCIs are installed with the Plug-on Neutral line of loadcentres and circuit breakers. This unique product solution enables the contractor to connect the circuit breaker directly to the neutral bar, eliminating the need for wiring a pigtail.



Product Selection

Type CH Main Circuit Breaker Plug-On Neutral Loadcentres

Maximum Ampere Rating	Main Circuit Breaker Rating	Catalogue Number	Max. # 3/4" Poles	Cover Style	Main Circuit Breaker Type	Dimensions			Wire Size Range for Main Circuit Breaker Cu/Al
						H	W	D	
100	100	CHM24PN100	24	Flush/Surface	CSH 35 kAIC	29-1/8" (739.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil
100	100	CHM32PN100	32	Flush/Surface	CSH 35 kAIC	34-1/8" (866.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil
200	200	CHM32PN200	32	Flush/Surface	CSH 35 kAIC	34-1/8" (866.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil
200	200	CHM42PN200	42	Flush/Surface	CSH 35 kAIC	37" (939.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil
200	200	CHM60PN200L	60	Flush/Surface	CSH 35 kAIC	39" (990.6mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil

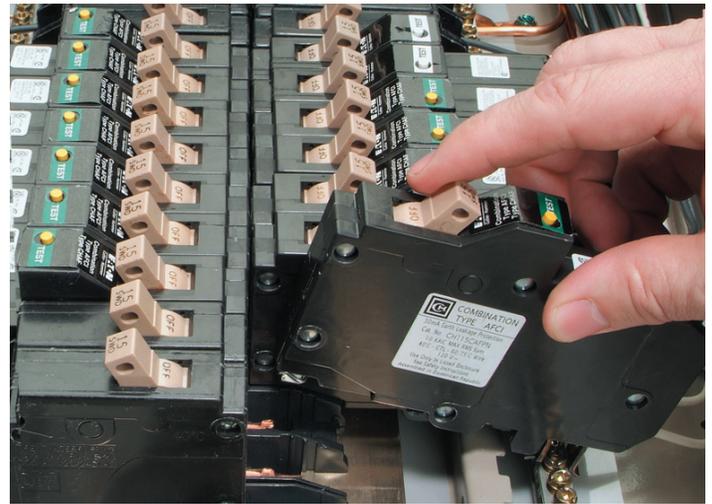
Type CH Main Lug Only Plug-On Neutral Loadcentres

Maximum Ampere Rating	Catalogue Number	Max. # 3/4" Poles	Cover Style	Dimensions			Wire Size Range for Main Lug Cu/Al
				H	W	D	
125	CHNL24PN125	24	Flush/Surface	29-1/8" (739.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil
125	CHNL32PN125	32	Flush/Surface	34-1/8" (866.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil
225	CHNL32PN225	32	Flush/Surface	34-1/8" (866.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil
225	CHNL42PN225	42	Flush/Surface	37" (939.8mm)	14-3/16" (360.4mm)	3-11/16" (93.7mm)	#2 - 300 kcmil

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CH Circuit Breakers

- Space saving 3/4" design
- Limited lifetime warranty
- Product markings to clarify ratings
- Trip Indication model
 - ★ Red flag visually confirms "Tripped" status
 - ★ Exclusive "Trip to Off / Auto Reset" feature
 - ★ Tri-drive screw accepts flat, Robertson, or Phillips drivers



Type CH Circuit Breakers

Amperes	Wire Size Range (Cu/Al 60°C or 75°C) (AWG)	1-Pole 120/240VAC 10kAIC	1-Pole 120/240VAC 10kAIC with Trip Indication	2-Pole 120/240VAC 10kAIC Common Trip	2-Pole 120/240VAC 10kAIC Common Trip with Trip Indication
		10 Per Shelf Carton	10 Per Shelf Carton	5 Per Shelf Carton	5 Per Shelf Carton
		Catalogue Number	Catalogue Number	Catalogue Number	Catalogue Number
15	(1) #14-8, (2) #14-10 ^①	CH115	CHF115	CH215	CHF215
20	(1) #14-8, (2) #14-10 ^①	CH120	CHF120	CH220	CHF220
25	(1) #14-8, (2) #14-10 ^①	CH125	CHF125	CH225	CHF225
30	(1) #14-8, (2) #14-10 ^①	CH130	CHF130	CH230	CHF230
40	(1) #14-2 ^② , (1) #10-1/0 ^③	CH140		CH240	
50	(1) #14-2 ^② , (1) #10-1/0 ^③	CH150		CH250	
60	(1) #14-2 ^② , (1) #10-1/0 ^③			CH260	
70	(1) #14-2 ^② , (1) #10-1/0 ^③			CH270	
80	(1) #14-2 ^② , (1) #10-1/0 ^③			CH280	
90	(1) #14-2 ^② , (1) #10-1/0 ^③			CH290	
100	(1) #14-2 ^② , (1) #10-1/0 ^③			CH2100	
		Requires One 3/4-Inch (19.1mm) Space	Requires One 3/4-Inch (19.1mm) Space	Requires Two 3/4-Inch (19.1mm) Spaces	Requires Two 3/4-Inch (19.1mm) Spaces

Type CH Plug-On Neutral Arc Fault and Ground Fault Circuit Breakers

Amperes	Wire Size Range (Cu/Al 60°C or 75°C) (AWG)	1-Pole 120/240VAC 10kAIC Combination* Arc Fault	1-Pole 120/240VAC 10kAIC Ground Fault
		Catalogue Number	Catalogue Number
		15	(1) #14 - 6
20	(1) #14 - 6	CH120CAFPN	CHF120GFPN
		Requires One 3/4-Inch (19.1mm) Space	Requires One 3/4-Inch (19.1mm) Space

* Note:

Combination AFCI circuit breakers have the added benefit of enhanced detection of persistent, low current, or "series" arcing faults. The term "Combination AFCI" is not intended to mean combined arc fault and ground fault protection in a single circuit breaker.

^① Solid and stranded wire can be used together.

^② 1-pole 40-50 amperes, 2-pole 40-70 amperes.

^③ 1-pole 60-70 amperes, 2-pole 80-100 amperes.

CH Loadcentre and Circuit Breaker Accessories

Type CH Loadcentre Accessories

Description	Ordering Qty.	Catalogue Number
Sub-feed kit for 100 ampere main circuit breaker and 125 ampere main lug only loadcentres. Requires two ¾-inch (19.1mm) spaces.	1	CHFS2125
Neutral/Ground lug kit for 2/0 cable.	1	NL20
Neutral/Ground lug kit for 3/0 cable.	1	NL30
¾-Inch filler plate kit.	25	CHFP
Door lock.	1	TDL
Touch up spray paint (sandalwood).	1	SPCSW
Trim screw kit.	25	LCCS
Circuit marking strip.	10	CHMS

Type CH Circuit Breaker Accessories

Description	Ordering Qty.	Catalogue Number
Handle Tie for single pole Type CH circuit breakers. Joins handles on circuit breakers mounted adjacent to each other via a moulded plastic handle overlay.	25	CHHT
Handle Lockoff (Handle mounted). 1 and 2-Pole Type CH circuit breakers.	1	CHPL
Handle Lockoff (Escutcheon mounted). Locks the handle of main circuit breaker type CSH in the OFF or ON position	1	MCBPL
Handle Lockdog (Handle mounted). 1-Pole Type CH circuit breakers.	10	CHLO

Definitions

Handle Ties - devices used to join two similar independent single-pole circuit breakers to form a 2-pole non-common trip circuit breaker.

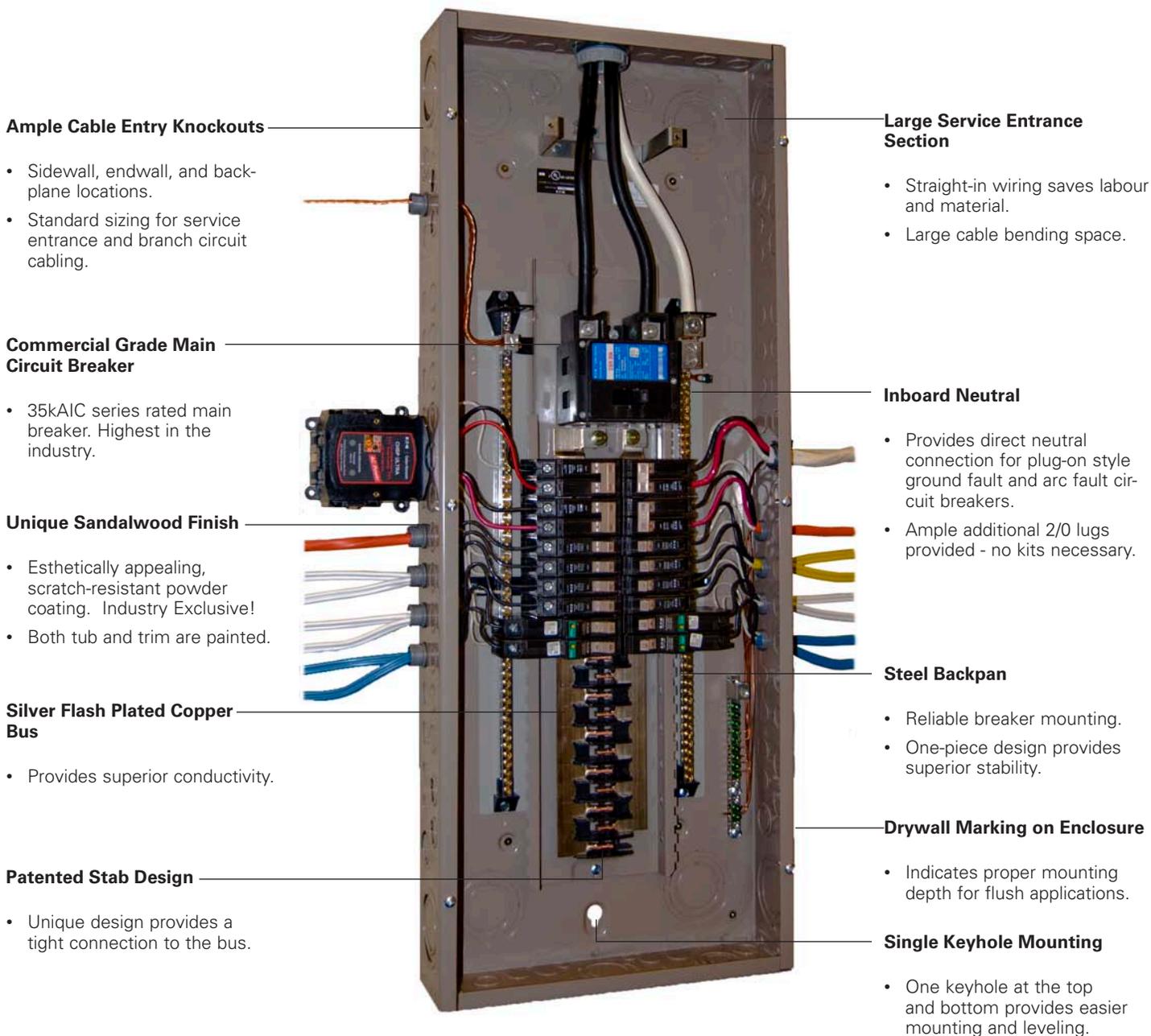
Handle Lockoff - devices that use a padlock to lock a circuit breaker's handle in either the OFF or ON position.

Handle Lockdog - devices used to secure a circuit breaker's handle in the OFF or ON position. They are not padlockable devices.

Escutcheon Mounted - a semipermanent mounting to the face of the circuit breaker and secured by the loadcentre's deadfront cover.

Handle Mounted - a mounting made directly to the handle of the circuit breaker by means of a set screw.

Features, Benefits and Functions



Eaton Corporation is a diversified power management company with 2010 sales of \$13.7 billion. Celebrating its 100th anniversary in 2011, Eaton is a global technology leader in electrical components and systems for power quality, distribution and control; hydraulics components, systems and services for industrial and mobile equipment; aerospace fuel, hydraulics and pneumatic systems for commercial and military use; and truck and automotive drivetrain and powertrain systems for performance, fuel economy and safety. Eaton has approximately 70,000 employees and sells products to customers in more than 150 countries. For more information, visit www.eaton.com.

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