Product guide CA003011EN

Effective January 2026

Residential and light commercial distribution products

Powering Business Worldwide

CATALOGUE UPDATE SUMMARY

We are pleased to announce the release of our updated product catalogue. This revision includes the addition of new part numbers, the removal of obsolete items, recent product updates, and various product clarifications:

- **Page 4:** Correction the location of the 2/0 lug
- **Page 5:** Added Note: Suffix D,E,G,Z are not available in NEMA 3R
- **Page 7:** Added non-clemanture for 3 phase loadcentres
- **Page 8:** Added image of R3CPM230CU
- **Page 10:** Corrected wire size for RCCPL
- **Page 22 :** GFEP2XX breakers replaced by BRN2XXEP breakers
- **Page 23:** CC breakers replaced by CCV
- **Page 34:** CHN2XXGF breakers replaced by CHFN2XXGF
- **Page 39:** CBM142CU discontinued
- **Page 46:** NEW BR SPA added
- **Page 48:** Updated combined loadcentre and meter socket page
- **Page 52-53:** New pages added: Home surge protection
- **Pages 54-64:** New pages added for Automatic/manual transfer switches and generator panels
- **Pages 65-69:** New pages added for specialty metering products
- **Pages 70–74:** New pages added for mini power centers

Please reach out to EatonCare at **cscanada@eaton.com** for any questions.

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Printed in Canada
Publication number: SA003065EN
January 2026

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Powering Business Worldwide

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Type BR plug-in main breaker loadcentres

Product description

Loadcentres feature factory installed main lugs or main breakers The BR interiors are manufactured of formed, plated aluminum Eaton also supplies a full line of Eaton brand BR, DNPL, GFTCB and GFEP type branch circuit breakers and accessories for these loadcentres.

Product application

Designed for the protection and distribution of single and multidwelling residential and light commercial loads to 120/240 volts AC, such as lighting, heating, appliance and small motor branch circuits.

All main breaker combination loadcentres are CSA listed for use as service entrance equipment.

Ratings

Single-phase, three-wire, 120/240 volts AC and three-phase, four-wire, 120/208 volts AC Mains through 400 A Available with up to 120 branch circuits Main breakers on 150 and 200 A panels are rated at 25,000 AIC.

Metal enclosure specifications

Enclosures are made of 16 gauge sheet steel, either galvanized or epoxy painted These coatings provide superior corrosion protection All trims used on BR loadcentres are chromate sealed and finished with an electro-disposition epoxy paint in grey (ANSI-61) or white, which exceeds requirements for outdoor and indoor applications A combination surface/flush cover with integral door is supplied with indoor loadcentres rated from 100 through 400 A

All plug-in loadcentres are CSA listed to file LL98266 CSA certified to C22 2 No 29.

Warranty

10 year limited.

Type BR plug-on neutral loadcentre features and benefits:

Optimized knockout locations for additional access.

Easier to remove.

White box trim and barriers provide more professional look and feel

Smooth case edges.

2/0 lug is easily removeable and can be installed in any location on the neutral bar

Inboard neutral increases gutter space to allow for professional installation of conductors

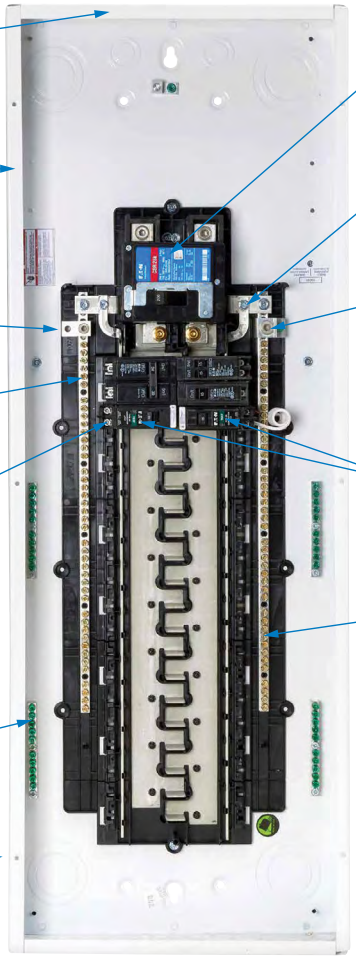
BR short-body configuration maximizes gutter space providing ease of installation of conductors

Reduced clutter of pigtails provides a clean gutter space.

Quicker and neater installation, along with a consistent form and fit.

Extra ground positions provided in panels with more than 20 circuits allows quicker and easier wiring.

Self-levelling tabs allow for quick drywall offset.



Commercial grade 25 kAIC series rated main breaker with lock-off bracket for superior protection

Common screws minimize the number of tools required for installation. Neutral bar, ground bar, and BR breaker screws share a common drive type.

Bonding screw provides a quick and easy means of bonding the ground and neutral.

Plug-on neutral (PON) eliminates the pigtail connection providing time and labour savings for a professional installation.

Backed out neutral and ground screws allow for quick connection of neutral and ground conductors

Cover features include:

Improved twist-outs that are easier to remove

Durable embossed circuit numbering with added marking for twin breakers

Keyhole hanging feature allows for easier cover installation

Combination (main circuit breaker) single-phase Type 1

Three-wire, 120/240 Vac combination service entrance Type 1 (indoor)

CBRPM120

CBRPM230

Loadcentre numbering system- single phase

R CBR P M 1 40 Z

Enclosure
Blank = NEMA Type 1 indoor
R: NEMA Type 3R rainproof*

Type designation
CBR = 1 inch (25.4 mm) type BR loadcentre Canadian CSA

Feature
P = Plug-on neutral design

Main device
L = Main lug only
M = Main breaker

Bus amperage
1 = 125 A
15 = 150 A
2 = 200 A

Main breaker amperage ②
D = 60 A
E = 70 A
G = 90 A
Z = 125 A

② Applicable only to Type 1 loadcentres with 125 A Bus.

Number of circuits
12 = 12/24
16 = 16/32
20 = 20/40
30 = 30/60
40 = 40/80
60 = 60/120

* Suffix D, E, G, Z are not available for NEMA 3R loadcentres

Product selection

Table 1a. Main circuit breaker indoor Type 1 BR plug-on neutral loadcentres

Maximum ampere rating	Main breaker rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Type of main breaker	Dimensions (inches) H	W	D	Wire size range for main CU/AL
125	100	**CBRPM112**	White	12	24	Flush/surface	BRH [a]	18–3/4	14–3/8	3–7/8	#8–1/0
125	100	**CBRPM116**	White	16	32	Flush/surface	BRH [a]	21	14–3/8	3–7/8	#8–1/0
125	125	**CBRPM116Z**	White	16	32	Flush/surface	BRH [b]	21	14–3/8	3–7/8	#4–2/0
125	100	**CBRPM120**	White	20	40	Flush/surface	BRH [a]	27	14–3/8	3–7/8	#8–1/0
125	100	**CBRPM130**	White	30	60	Flush/surface	BRH [a]	29–1/8	14–3/8	3–7/8	#8–1/0
125	125	**CBRPM130Z**	White	30	60	Flush/surface	BRH [b]	29–1/8	14–3/8	3–7/8	#4–2/0
125	100	**CBRPM140**	White	40	80	Flush/surface	BRH [a]	34–1/8	14–3/8	3–7/8	#8–1/0
125	125	**CBRPM140Z**	White	40	80	Flush/surface	BRH [b]	34–1/8	14–3/8	3–7/8	#4–2/0
150	150	**CBRPM1520**	White	20	40	Flush/surface	CSR [c]	29–1/8	14–3/8	3–7/8	#2–300 MCM
150	150	**CBRPM1530**	White	30	60	Flush/surface	CSR [c]	34–1/8	14–3/8	3–7/8	#2–300 MCM
150	150	**CBRPM1540**	White	40	80	Flush/surface	CSR [c]	39	14–3/8	3–7/8	#2–300 MCM
200	200	**CBRPM220**	White	20	40	Flush/surface	CSR [c]	29–1/8	14–3/8	3–7/8	#2–300 MCM
200	200	**CBRPM230**	White	30	60	Flush/surface	CSR [c]	34–1/8	14–3/8	3–7/8	#2–300 MCM
200	200	**CBRPM240**	White	40	80	Flush/surface	CSR [c]	39	14–3/8	3–7/8	#2–300 MCM
200	200	**CBRPM260**	White	60	120	Flush/surface	CSR [c]	49	14–3/8	3–7/8	#2–300 MCM

Table 1b. Main circuit breaker indoor Type 1 BR non plug-on neutral loadcentres [h]

Maximum ampere rating	Main breaker rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Type of main breaker	Dimensions (inches) H	W	D	Wire size range for main CU/AL
400	300	**CPM342**	Grey	42	84	Flush/surface	KD [d]	66–1/2	16–1/8	6–5/16	(2)#2/0–250 MCM or (1)#2/0–500 MCM [f]
400	400	**CPM442**	Grey	42	42 [e]	Flush/surface	KD [d]	66–1/2	16–1/8	6–5/16	(2)#2/0–250 MCM or (1)#2/0–500 MCM [f]

[a] High Interrupting 22 kAIC BRH breakers

[b] 22 kAIC BRH2125 main breaker is factory installed.

[c] Factory installed 25 kAIC main breaker.

[d] KD breaker is a 65 kAIC, factory-sealed breaker.

[e] Restricted due to available neutrals, extra neutrals are available on page 15 table 10b which will expand available circuitry to a maximum of 84 circuits.

[f] 3TA401K must be ordered separately for #2/0-500–MCM.

[g] CBRPM130D, CBRPM130E, CBRM130G also available with the corresponding main breaker 60A, 70A, 90A.

[h] Can use BRN breaker but not GFTCB.

Combination (main circuit breaker) single-phase Type 3R

Three-wire 120/240 Vac combination service entrance Type 3R (outdoor/raintight) [a]

RCBRPM230

Table 2. Main circuit breaker outdoor/raintight Type 3R BR plug-on neutral loadcentres [a]

Maximum ampere rating	Main breaker rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Type of main breaker	Dimensions (inches)			Wire size range for main Cu/Al
								H	W	D	
125	100	**RCBRPM112** [b]	Grey	12	24	Outdoor	BRH [c]	18-1/2	14-3/8	5	#8–1/0
125	100	**RCBRPM120** [b]	Grey	20	40	Outdoor	BRH [c]	25	14-3/8	5	#8–1/0
125	100	**RCBRPM130** [b]	Grey	30	60	Outdoor	BRH [c]	28-7/8	14-3/8	5	#8–1/0
200	200	**RCBRPM220** [b]	Grey	20	40	Outdoor	CSR [d]	28-7/8	14-3/8	5	#2–300 MCM
200	200	**RCBRPM230** [b]	Grey	30	60	Outdoor	CSR [d]	33-7/8	14-3/8	5	#2–300 MCM
200	200	**RCBRPM240** [b]	Grey	40	80	Outdoor	CSR [d]	38-3/4	14-3/8	5	#2–300 MCM

[a] Outdoor loadcentres accommodate Type DS conduit hubs. Hubs not included. **See Page 14-15 table 10b** for selection.

[b] All enclosures include a locking hasp as an integral part of the door latching mechanism.

[c] 22 kAIC BRH2100 main breaker is factory installed.

[d] Factory installed 25 kAIC main breaker.

Combination (main circuit breaker) three-phase Type 1

Four-wire 120/208 Vac combination service entrance Type 1 (indoor)

3CPM112

R 3CP M 1 40 CU

Enclosure
Blank = NEMA Type 1 indoor
R: NEMA Type 3R rainproof*

Type designation
3CP = 3PH type BR loadcentre

Main device
L = Main lug only
M = Main breaker

Bus ampere
1 = 125 A
2 = 200 A
4 = 400 A

Number of circuits
12 = 12/24
16 = 16/32
20 = 20/40
30 = 30/60
40 = 40/80
60 = 60/120

Bus bar
Blank = Aluminum Bus Bar
CU = Copper Bus Bar

Note: Only 3CPM230CU and R3CPM230CU has the copper bus bar option.
For 2-12 cct options, please check catalogue for more options.

Table 3. Main circuit breaker indoor Type 1 BR loadcentres

Maximum ampere rating	Main breaker rating	Catalogue number	Color	Max.no. 1-inch spaces	Max.no. 1/2-inch spaces	Cover style	Type of main breaker	Dimensions (inches) H	W	D	Wire size range for main Cu/Al
125	100	**3CPM112**	Grey	12	24	Flush/surface	BR [bc]	21	14-3/8	3-3/4	#4–1/0
125	100	**3CPM130**	Grey	30	60	Flush/surface	CCV [d]	39	14-3/8	3-3/4	#4–4/0
200	200	**3CPM230CU**[g]	Grey	30	60	Flush/surface	CCV [d]	39	14-3/8	3-3/4	#1–250 MCM
400	400	**3CPM442** [a]	Grey	42	42 [a]	Flush/surface	KD [e]	66-1/2	16-1/8	6-5/16	(2) 2/0–250 MCM (1) 2/0–500 MCM [f]

[a] Extra neutrals which will expand available circuitry to a maximum of 84 circuits are available on **Page 15.**
[b] Type BR—100 A 10 kAIC main circuit breaker is factory installed (BR3100).
[c] High interrupting BRH breakers are available on **Page 17**.
[d] Factory installed 10 kAIC main breaker.
[e] KD Breaker is a 65 kAIC factory-sealed main breaker.
[f] Circuit breaker lug kit 3TA401 must be ordered separately to accept #2/0–500 MCM cabling.
[g] 3CPM230CU comes with a copper bus and factory installed CCV main breaker.

Combination (main circuit breaker) three-phase Type 3R

Four-wire 120/208 Vac combination service entrance Type 3R (outdoor/raintight) [ab]

R3CPM130

RCPM230CU

Table 4. Main Circuit Breaker outdoor / raintight Type 3R BR loadcentres [a]

Maximum ampere rating	Main breaker rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Type of main breaker	Dimensions (in)			Wire size range for main Cu/Al
								H	W	D	
125	100	R3CPM112 [b]	Grey	12	24	Outdoor	BR [cd]	20-3/4	14-3/8	5	#4–1/0
125	100	R3CPM130 [b]	Grey	30	60	Outdoor	CCV [e]	38-3/4	14-3/8	5	#4–4/0
200	200	R3CPM230CU [f]	Grey	30	60	Outdoor	CCV [e]	38-3/4	14-3/8	5	#1–250 MCM

[a] Outdoor loadcentres accommodate Type DS conduit hubs. Hubs not included. See **Page 14-15** for selection.

[b] All enclosures include a locking hasp as an integral part of the door latching mechanism.

[c] Type BR—100 A 10 kAIC main circuit breaker is factory installed (BR3100).

[d] High interrupting BRH breakers are available on **Page 17**.

[e] Factory installed 10 kAIC main breaker.

[f] R3CPM230CU uses a copper bus and a CCV main breaker.

Non-combination (main lug only) single-phase Type 1

Three-wire 120/240 Vac non-combination Type 1 (indoor)

CBRPL116

CCPL102

Product selection

Table 5a. Main lug only indoor Type 1 BR plug-on neutral loadcentres

Maximum ampere rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions (inches) H	W	D	Wire size range for main Cu/Al
125	CBRPL112	White	12	24	Flush/surface	16-3/4	14-3/8	3-7/8	#14–2/0
125	CBRPL116	White	16	32	Flush/surface	18-3/4	14-3/8	3-7/8	#14–2/0
125	CBRPL120	White	20	40	Flush/surface	21	14-3/8	3-7/8	#14–2/0
125	CBRPL130	White	30	60	Flush/surface	29-1/8	14-3/8	3-7/8	#14–2/0
200	CBRPL220	White	20	40	Flush/surface	27	14-3/8	3-7/8	#1–300 MCM
200	CBRPL240	White	40	80	Flush/surface	34-1/8	14-3/8	3-7/8	#1–300 MCM

Table 5b. Main lug only indoor Type 1 BR non-plug-on neutral loadcentres

Maximum Ampere Rating	Catalogue Number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions (inches) H	W	D	Wire size range for main Cu/Al
125	CCPL102	Grey	2	4	Surface	11-1/2	6-3/4	3-1/4	#14–1/0
125	CCPL104	Grey	4	8	Flush/surface	13	11	3-1/2	#14–2/0
125	CCPL108	Grey	8	16	Flush/surface	13	11	3-1/2	#14–2/0
400	CPL442	Grey	42	42 [a]	Flush/surface	54	16-1/8	6-5/16	(1)250–750 MCM (2)3/0–250 MCM

[a] Extra neutrals which will expand available circuitry to a maximum of 84 circuits are available on **Page 14-15**

Non-combination (main lug only) single-phase Type 3R

Three-Wire 120/240 Vac non-combination Type 3R (outdoor/raintight) [a]

RCBRPL112

Table 6a. Main lug only outdoor/ raintight Type 3R BR plug-on neutral loadcentres [a]

Maximum ampere rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover Style	Dimensions (inches) H	W	D	Wire size range for main Cu/Al
125	**RCBRPL112** [b]	Grey	12	24	Outdoor	16-1/2	14-3/8	5	#14–2/0
125	**RCBRPL130** [b]	Grey	30	60	Outdoor	28-7/8	14-3/8	5	#14–2/0
200	**RCBRPL240** [b]	Grey	40	80	Outdoor	33-7/8	14-3/8	5	#1–250 MCM

Table 6b. Main lug only outdoor/ raintight Type 3R BR non plug-on neutral loadcentres [a]

Maximum ampere rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover Style	Dimensions (inches) H	W	D	Wire size range for main Cu/Al
125	**RCCPL102** [b]	Grey	2	4	Outdoor	11-1/2	6-1/2	4	#14-1/0
125	**RCCPL104A** [b]	Grey	4	8	Outdoor	11-1/2	6-1/2	4	#14-1/0
125	**RCCPL108** [b]	Grey	8	16	Outdoor	13	11	3-1/2	#14-1

Table 6c. Enclosed service entrance rated breakers

Maximum ampere rating	Voltage	Catalogue number	installed Breakers	Poles	Withstand Rating(kAIC)	Cover Style	Dimensions (inches) W	D	H	Wire size range for main cu/Al
100	120/240	**ECSEGEN100**	BRH	2	22	Indoor	6-3/4	3-1/4	11-1/2	#14-1/0
100	120/240	**ECSEGEN10R**[d]	BRH	2	22	Outdoor	6-1/2	4	11-1/2	#14-1/0
200	120/240	**ECCSEGEN200**	CCV	2	25	Indoor	8-7/8	4-1/2	23-1/4	#2-kcmil
200	120/240	**ECCSEGEN20R**	CCV	2	25	Outdoor	9-5/16	5-7/16	23-11/16	#2-kcmil

a Outdoor loadcentres accommodate Type DS conduit hubs. Hubs not included. See page 15 for selection.

b All enclosures include a locking hasp as an integral part of the door latching mechanism.

c NEMA is a registered trademark and service mark of the national Electrical Manufacturer's Association.

d The ECSEGEN10R uses the same enclosure as the RCCPL102, but it comes with a factory-installed 2-pole BRH breaker and is service entrance rated.

Non-combination (main lug only) three-phase Type 1

Four-wire 120/208 Vac non-combination Type 1 (indoor)

3CPL130

3CCPL103

Table 7. Main lug only indoor Type 1 loadcentres

Maximum ampere rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions (inches) H	W	D	Wire size range for main Cu/Al
100	**3CCPL103**	Grey	3	6	Surface	14-1/4	6-1/2	3-1/4	#14–2/0
125	**3CPL112**	Grey	12	24	Flush/surface	21	14-3/8	3-7/8	#8–2/0
125	**3CPL124**	Grey	24	48	Flush/surface	29	14-3/8	3-7/8	#8–2/0
125	**3CPL130**	Grey	30	60	Flush/surface	34.12	14-3/8	3-7/8	#8–2/0
125	**3CPL136**	Grey	36	72	Flush/surface	39	14-3/8	3-7/8	#8–2/0
200	**3CPL218**	Grey	18	36	Flush/surface	27	14-3/8	3-7/8	#2–300 MCM
200	**3CPL224**	Grey	24	48	Flush/surface	34.12	14-3/8	3-7/8	#2–300 MCM
200	**3CPL230**	Grey	30	60	Flush/surface	34.12	14-3/8	3-7/8	#2–300 MCM
200	**3CPL242**	Grey	42	84	Flush/surface	39	14-3/8	3-7/8	#2–300 MCM
400	**3CPL442**	Grey	42	42 [a]	Flush/surface	54	16-3/8	6-5/16	250–750 MCM 3/0–250 MCM

[a] Extra neutrals which will expand available circuitry to a maximum of 84 circuits are available on **Page 14-15.**

Non-combination (main lug only) three-phase Type 3R

Four-wire 120/208 Vac non-combination Type 3R (outdoor/raintight) [a]

R3CPL112

Table 8. Main lug only outdoor/raintight Type 3R Loadcentres [a]

Maximum ampere rating	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions (inches) H	W	D	range for main Cu/Al
100	**R3CCPL103** [b]	Grey	3	—	Outdoor	11-1/2	6-1/2	4	#14–2/0
125	**R3CPL112** [b]	Grey	12	24	Outdoor	20-3/4	14-3/8	5	#14–2/0
125	**R3CPL130** [b]	Grey	30	60	Outdoor	38-3/4	14-3/8	5	#14–2/0
125	**R3CPL136** [b]	Grey	36	72	Outdoor	38-3/4	14-3/8	5	#14–2/0
200	**R3CPL230** [b]	Grey	30	60	Outdoor	33-7/8	14-3/8	5	#2–300 MCM
200	**R3CPL242** [b]	Grey	42	42 [c]	Outdoor	38-3/4	14-3/8	5	#2–300 MCM

[a] Outdoor loadcentres accommodate Type DS conduit hubs. Hubs not included. See **Page 14-15** for selection.

[b] All enclosures include a locking hasp as an integral part of the door latching mechanism.

[c] Extra neutrals to expand available circuitry to a maximum of 84 circuits are available on **Page 14-15**.

Non-combination (main lug only) 70 A single-phase

Three-wire 250 Vac maximum non-combination

CPL072

CPL072FGP

CPL072RGP [bc]

CPL072R [b]

CPL072SGP

Table 9. 70 A main lug only polymeric and metallic loadcentres

Maximum ampere rating	Enclosure style	Material	Catalogue number	Color	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Dimensions (inches)			range for main Cu/Al
							H	W	D	
70	Indoor Type 1	Polymeric	**CPL072**	Black	2	4	8-5/8	5	3-1/4	#14–2
70	Indoor/outdoor Type 3R	Polymeric	**CPL072R** [c]	Black	2	4	8-11/16	6-1/4	4-5/16	#14–2
70	Indoor Type 1 flush mount	Metallic	**CPL072FGP**	Grey	2	4	9-7/16	4-1/2	3	#14–2
70	Indoor Type 1 surface mount	Metallic	**CPL072SGP**	Grey	2	4	9-7/16	4-1/2	3	#14–2
70	Indoor/outdoor Type 3R	Metallic	**CPL072RGP** [bc]	Grey	2	4	9-7/16	4-1/2	3	#14–2

[a] BR and BRH two-pole breakers can be found on **Page 17.**

[b] The circuit breaker protective cover incorporates a locking hasp.

[c] Uses DS*H1 style hubs found on **Page 14-15.**

Table 10a. Type BR Plug-on Neutral (PON) loadcenter CBRPM/CBRPL accessories

Description	Catalogue number
White cover replacement latch—indoor loadcenters	**LATCHPW**
Grey cover replacement latch—indoor loadcenters	**LATCHPG**
Retaining bracket for backfed main breaker—BR	**BRPHD**
Incoming 2/0 neutral lug	**NLP20**
Incoming 300 kcmil neutral lug	**NLP300**
BR loadcenter panel directory label 0-30 circuits [a]	**LCPD30**
BR loadcenter panel directory label 0-40 circuits [a]	**LCPD40**
BR loadcenter panel directory label 31-60 circuits [a]	**LCPD60**
Bonding kit for bonding the neutral bus to the loadcenter	**BONDKITP**
5 terminal ground bar kit - fits in all PON loadcenters	**GBKP5**
10 terminal ground bar kit - fits in all PON loadcenters	**GBKP10**
14 terminal ground bar kit - fits in all PON loadcenters	**GBKP14**
21 terminal ground bar kit - fits in all PON loadcenters	**GBKP21**
225A/2P subfeed lug block - #2-300KCMIL [b]	**BRPSF225**
1) 42 cct panel label, (6) white panel cover screws, (3) filler plates, 1) Eaton arc flash label, (1) neutral or ground lug	**BRPNLKIT**
2) 60 cct panel label, (6) white panel cover screws, (5) door hinges, 1) white latch	**BRTRMKIT**
Replacement trim assembly for CBRPL112 loadcenter	**COVCBRPL112**
Replacement trim assembly for CBRPL116 loadcenter	**COVCBRPL116**
Replacement trim assembly for CBRPL116S loadcenter	**COVCBRPL116S**
Replacement trim assembly for CBRPL120 loadcenter	**COVCBRPL120**
Replacement trim assembly for CBRPL120S loadcenter	**COVCBRPL120S**
Replacement trim assembly for CBRPL130 loadcenter	**COVCBRPL130**
Replacement trim assembly for CBRPL220 loadcenter	**COVCBRPL220**
Replacement trim assembly for CBRPL220S loadcenter	**COVCBRPL220S**
Replacement trim assembly for CBRPL240 loadcenter	**COVCBRPL240**
Replacement trim assembly for CBRPL240S loadcenter	**COVCBRPL240S**
Replacement trim assembly for CBRPM112 loadcenter	**COVCBRPM112**
Replacement trim assembly for CBRPM116 loadcenter	**COVCBRPM116**
Replacement trim assembly for CBRPM120 loadcenter	**COVCBRPM120**
Replacement trim assembly for CBRPM130 loadcenter	**COVCBRPM130**
Replacement trim assembly for CBRPM140 loadcenter	**COVCBRPM140**
Replacement trim assembly for CBRPM1520 loadcenter	**COVCBRPM1520**
Replacement trim assembly for CBRPM1530 loadcenter	**COVCBRPM1530**
Replacement trim assembly for CBRPM1540 loadcenter	**COVCBRPM1540**
Replacement trim assembly for CBRPM220 loadcenter	**COVCBRPM220**
Replacement trim assembly for CBRPM230 loadcenter	**COVCBRPM230**
Replacement trim assembly for CBRPM240 loadcenter	**COVCBRPM240**
Replacement trim assembly for CBRPM260 loadcenter	**COVCBRPM260**
Trim screw kit-white [a]	**LCCSW**
Door lock for 12-42CBRPM circuit 100-225A [c]	**TDL**
(2) 42 CKT CARD, (2) ADHESIVE PLASTIC SLEEVE	**CKTDIR**

[a] 25 units per package.Catalogue number represent one package.

[b] Line/Load terminals supplied only. Neutral conductor must be purchased separately. See above listed kits.

[c] Comes with a set of keys

Table 10b. Legacy Plug-in loadcenter CPM/CPL accessories

Description	Catalogue number
(2)42 CKT CARD,(2)ADHESIVE PLASTIC SLEEVE	**CKTDIR**
Circuit identification labels (e.g. hot water heater) [b]	**BP311OC**
Ground bar kit 5 position - fits in all plug-in loadcenters	**GBK5**
Ground bar kit 8 position - fits in all plug-in loadcenters	**GBK8**
Ground bar kit 10 position - fits in all plug-in loadcenters	**GBK10**
Ground bar kit 14 position - fits in all plug-in loadcenters	**GBK14**
Ground bar kit 21 position - fits in all plug-in loadcenters	**GBK21**
Subfeed kit for 125 A loadcentres #8–2/0 [g]	**BRSF125**
Subfeed kit for 150 A three-phase loadcentres #8–2/0 [g]	**3BRSF150**
Subfeed kit for 225 A loadcentres #2–300 MCM g	**BRPSF225**
Subfeed kit for 225 A three-phase loadcentres #2–300 MCM [g]	**3BRS225**
Subfeed kit for 400 A loadcentres #8–300 MCM [g]	**BRS400**
Subfeed kit for 400 A three-phase loadcentres [g]	**3BRS400**
Neutral/ground lug kit for 2/0 [h]	**NL20**
Neutral/ground lug kit for 3/0 [h]	**NL30**
Neutral/ground lug kit for 300 MCM (maximum) [h]	**NL300**
Neutral kit for 400 A combination loadcentres [i]	**CPM400KIT**
Neutral kit for 400 A non-combination loadcentres [j]	**CPL400KIT**
White plastic replacement door latch	**52-3125-6**
White spray can touch up paint	**SPCWH**
Door lock for 4–8 circuit 125 A (CPM/CPL)	**CH9FL** [k]
Isolated ground kit	**ISGRD**
Trim screw kit (CPM/CPL) [d]	**CVRSCRW**
3/4-inch hub for 100–125 A Type 3R loadcentres (3 x 2-3/4 inches) [e]	**DS075H1**
1-inch hub for 100–125 A Type 3R loadcentres (3 x 2-3/4 inches) [e]	**DS100H1**
1-1/4 inch hub for 100–125 A Type 3R loadcentres (3 x 2-3/4 inches) [e]	**DS125H1**
1-1/2 inch hub for 100–125 A Type 3R loadcentres (3 x 2-3/4 inches) [e]	**DS150H1**
2-inch hub for 100–125 A Type 3R loadcentres (3 x 2-3/4 inches) [e]	**DS200H1**
2-inch hub for 150 and 200 A Type 3R loadcentres (4-3/4 x 4-5/8 inches)	**DS200H2**
2-1/2 inch hub for 150 and 200 A Type 3R loadcentres (4-3/4 x 4-5/8 inches)	**DS250H2**
3-inch hub for 150 and 200 A Type 3R loadcentres (4-3/4 x 4-5/8 inches)	**DS300H2**
3/4-inch hub for R3CCPL103 loadcentres (2-1/8 x 3-1/4 inches)	**RH75P**
1-inch hub for R3CCPL103 loadcentres (2-1/8 x 3-1/4 inches)	**RH100P**
1-1/4 inch hub for R3CCPL103 loadcentres (2-1/8 x 3-1/4 inches)	**RH125P**
1-inch filler plate kit [f]	**BRFP**
Grey plastic replacement door latch	**52-3125-5**
Grey spray can touch up paint	**SPC61**

[a] 25 per package. Catalogue number represents one package.
[b] 50 per package. Catalogue number represents one package.
[c] Includes outer trim only, no door, and no deadfront.
[d] 100 per package. Catalogue number represents one package.
[e] Except R3CCPL103.
[f] Kit includes 25 pieces.
[g] Line/Load terminals supplied only. Neutral conductor must be purchased separately. See above listed kits.
[h] Neutral bolts to main neutral bar i.e. remove screw and install lug kit.
[i] Kit includes 2 neutral bars.
[j] Kit includes 1 neutral bar.

Type BR, DNPL, GFTCB, GFEP, and GFXB

BR circuit breakers

Eaton Type BR plug-in breakers in the standard 1-inch per pole moulded case and can be used as main and/or branch disconnect devices All are CSA and UL listed Typical ampacity range for BR breakers is 15 through 125 A.

FIRE-GUARD arc fault circuit interrupter (AFCI)

The FIRE-GUARD arc fault circuit interrupter (AFCI) is a residential circuit breaker with an integrated processor which recognizes the unique current and/or voltage signatures associated with arcing faults, and acts to interrupt the circuit to reduce the likelihood of an electrical fire With the Eaton Fire-Guard AFCI, protection from arcing faults is combined with conventional thermal and magnetic overloads as found in standard residential circuit breakers protecting wiring from excessive heat or damage due to overloading or short circuits Fire-Guard AFCI can also be equipped with 5 mA ground fault protection to protect from personal shock hazards Now, there is a residential circuit breaker that provides protection from arcing faults, conductor damage due to thermal overloads and short circuits, as well as 5 mA ground fault protection in one integrated design.

GFTCB people protection breakers

Eaton Type GFCB (ground fault circuit breaker) combines state-of-the-art electronic technology with a circuit breaker mechanism in a compact 1-inch per pole moulded case The GFCB automatically senses hot wire-to-ground faults in a 4 to 6 mA range and shuts off the power thus providing an extra margin of safety beyond that of conventional circuit breakers GFCB applications include bathrooms, basement outlets, swimming pools, outdoor branch circuits and kitchen branch circuits Self testing compliant to new codes Type GFCB breakers are also available in 30 mA equipment protectors 30 mA breakers are for equipment requiring a higher interrupting value such as heat tracing.

DNPL twin circuit breakers

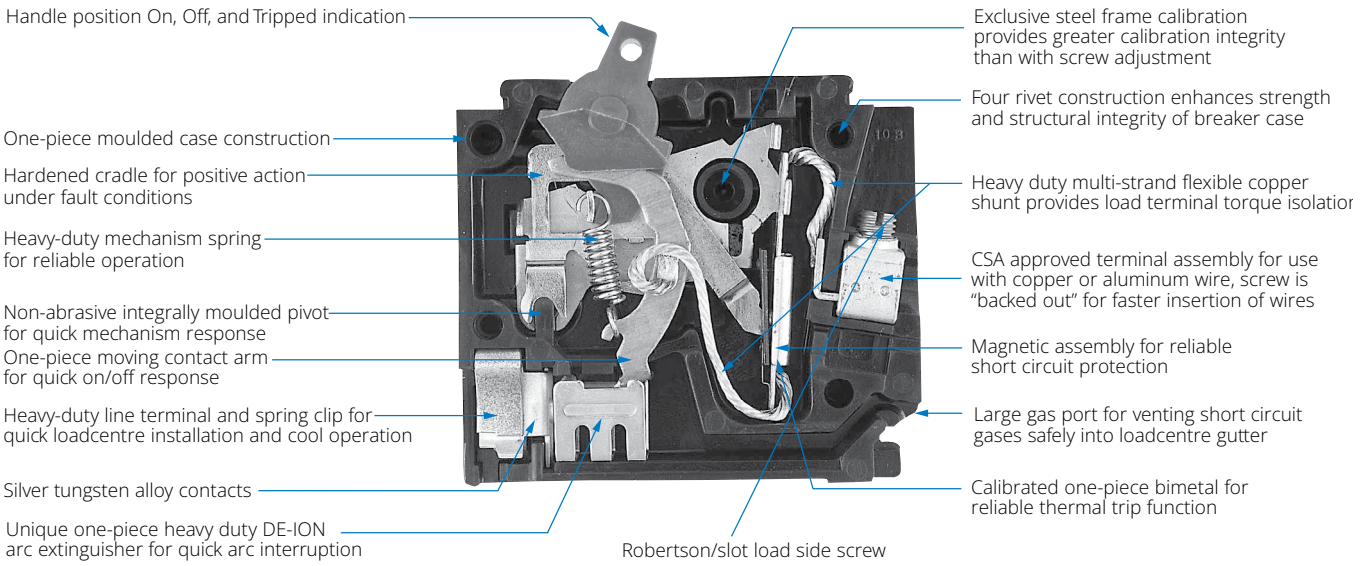
DNPL plug-in breakers have the same construction as Eaton Type BR 1-inch per pole devices except that two single-pole circuits are provided in a 1-inch space CSA listed interrupting rating is 10,000 AIC All ratings are CSA and UL listed.

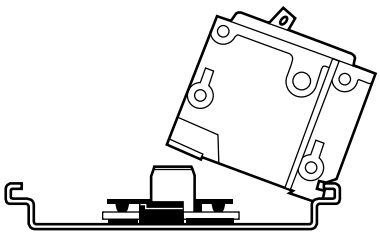
DNPL quad circuit breakers

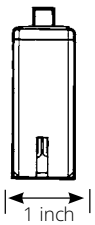
Quadplex construction of Eaton Type DNPL plug-in breakers provides various combinations of two-pole and single-pole devices in a 2-inch moulded case All plug-in breakers are approved for HACR applications.

- All ratings are CSA and UL listed
- CSA certified to C22 2 No 5, file LR3300
- All loadcentre breakers are GOS listed for conformity

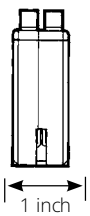
① Single-pole 15 and 20 A units are switching duty (SWD) rated.







Type BR



Type DNPL Duplex

Type BR single and multi-pole

Type BR [ab]

- 10,000/22,000 A interrupting capacity at 120 Vac, 120/240 Vac, and 240 Vac
- Two- and three-pole versions feature a common trip

BR120

BR215

BR320

Table 11. Single and multi-pole plug-in circuit breakers

		Single-pole, 120/240 Vac 10 per shelf carton		Two-pole, 120/240 Vac 5 per shelf carton		Three-pole, 120/240 Vac 5 per shelf carton	
Ampere rating	**Wire size range (Cu/Al 60 °C or 75 °C)**	**10 kAIC**	**22 kAIC**	**10 kAIC**	**22 kAIC**	**10 kAIC**	**22 kAIC**
15	#14–4	**BR115** [cd]	**BRH115**	**BR215**	**BRH215**	**BR315**	**BRH315**
20	#14–4	**BR120** [cd]	**BRH120**	**BR220**	**BRH220**	**BR320**	**BRH320**
25	#14–4	**BR125** [c]	**BRH125**	**BR225**	**BRH225**	**BR325**	**BRH325**
30	#14–4	**BR130** [c]	**BRH130**	**BR230**	**BRH230**	**BR330**	**BRH330**
35	#14–4	**BR135** [c]	**BRH135**	**BR235**	**BRH235**	**BR335**	**BRH335**
40	#14–4	**BR140** [c]	**BRH140**	**BR240**	**BRH240**	**BR340**	**BRH340**
45	#14–4	—	**BRH145**	**BR245**	**BRH245**	**BR345**	**BRH345**
50	#14–4	**BR150** [c]	**BRH150**	**BR250**	**BRH250**	**BR350**	**BRH350**
60	#8–1/0	**BR160** [c]	**BRH160**	**BR260**	**BRH260**	**BR360**	**BRH360**
70	#8–1/0	**BR170** [c]	**BRH170**	**BR270**	**BRH270**	**BR370**	**BRH370**
80	#8–1/0	—	—	**BR280**	**BRH280**	**BR380**	**BRH380**
90	#8- 1/0	—	—	**BR290**	**BRH290**	**BR390**	**BRH390**
100	#8–1/0	—	—	**BR2100**	**BRH2100**	**BR3100**	**BRH3100**
110	#8- 1/0	—	—	—	—	—	—
125	#4–2/0 [e]	—	—	**BR2125** [e]	—	[e]	—
150	[e]	—	—	[e]	—	[e]	—
175	[e]	—	—	[e]	—	[e]	—
200	[e]	—	—	[e]	—	[e]	—
Requires one 1-Inch (25.4 mm) space				Requires two 1-Inch (25.4 mm) spaces		Requires three 1-Inch (25.4 mm) spaces	

[a] All Type BR single, two, and three-pole circuit breakers carry listing for HACR application..

[b] Breaker shunt trips are available but only in 120 Vac format. Addition of a shunt trip adds a 1-inch space width. For circuit breakers requiring a shunt trip add an ST suffix to the end of the catalogue number (e.g. BR115ST).

[c] Available with high magnetic setting for switching large tungsten lamp loads. Add suffix H to catalogue number (e.g. BR115H).

[d] Switching duty rated.

[e] For subfeed applications in 200 or 400 A loadcentres requiring a 125, 150, 175, or 200 A subfeed circuit breaker a Type BJ circuit breaker can be used. Refer to **Page 65** for product space requirements and selection.

Type DNPL Duplex™, Independent Quadplex™ and circuit breaker packs

Type DNPL [ab]

- 10,000 A interrupting capacity at 120 Vac, 120/240 Vac, and 240 Vac

DNPL2020

DNPL155015

DNPL230230

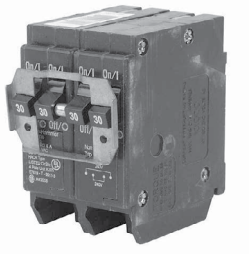


Table 12. Duplex and Independent Trip Quadplex

Duplex 2 single-pole circuits 10 per shelf carton		Quadplex independent trip 2 single-pole circuits and 1 two-pole circuit 5 per shelf carton				Quadplex independent trip 2 two-pole circuits 5 per shelf carton			
120 Vac		120 Vac	120/240 Vac	120 Vac		120/240 Vac			
Ampere rating	Catalogue number	Outer left (single-pole) ampere rating	Centre (two-pole) ampere rating	Outer right (single-pole) ampere rating	Catalogue number	Outer left and right (two-pole) ampere rating	Centre (two-pole) ampere rating	Catalogue number	Wire size range (Cu/Al 60 °C or 75 °C)
15–15	**DNPL1515**	15	15	15	**DNPL151515**	15	15	**DNPL215215**	#14–4 AWG
15–20	**DNPL1520**	15	20	15	**DNPL152015**	15	20	**DNPL215220**	#14–4 AWG
15–30	**DNPL1530**	15	25	15	**DNPL152515**	15	30	**DNPL215230**	#14–4 AWG
20–20	**DNPL2020**	15	30	15	**DNPL153015**	15	40	**DNPL215240**	#14–4 AWG
—	—	15	40	15	**DNPL154015**	20	20	**DNPL220220**	#14–4 AWG
—	—	15	50	15	**DNPL155015**	20	30	**DNPL220230**	#14–4 AWG
						30	30	**DNPL230230**	#14-4 AWG
120 Vac 120 Vac		120 Vac 120/240 Vac 120 Vac				120/240 Vac 120/240 Vac			
Requires one 1.00 inch (25.4 mm) space		Independent trip requires two 1.00 inch (25.4 mm) spaces				Independent trip requires two 1.00 inch (25.4 mm) spaces			

[a] All Type DNPL Duplex and Quadplex circuit breakers carry listing for HACR applications.

[b] All 15 and 20 A single-pole are switch-duty rated.

Type BP (circuit breaker packs)

- Single carton packaged
- Represents common household combinations

Table 13. Plug-in circuit breaker house packs

Contents	Catalogue number	Color
(3) DNPL151515, (1) DNPL153015, (1) DNPL154015	**BP2**	
(10) BR115, (3) BR215, (1) BR230, (1) BR240	**BP4**	
(2) DNPL1515, (1) DNPL215215, (1) DNPL152015, (1) DNPL153015, (1) DNPL154015	**BP16**	
(6) DNPL1515, (2) DNPL151515, (1) DNPL153015, (1) DNPL154015	**BP18**	
(1) DNPL1515, (3) DNPL151515, (2) DNPL153015, (1) DNPL154015	**BP21**	
(16) BR115, (3) BR215, (1) BR230, (1) BR240	**BP24**	
(14) BR115, (2) BR120, (1) BR230, (1) BR240	**BP27**	
(5) DNPL1515, (1) DNPL2020, (1) DNPL153015, (1) DNPL154015	**BP31**	
(1) BR120, (4) DNPL1515, (1) DNPL151515, (1) DNPL153015, (1) DNPL154015	**BP32**	
(10) BR115, (2) BR120, (1) BR215, (1) BR220, (1) BR230, (1) BR240	**BP41**	
(3) DNPL1515, (1) DNPL153015, (1) DNPL154015, (1) DNPL2020, (1) DNPL1520	**BP54**	

Type BR arc fault circuit interrupter

Type BR arc fault circuit interrupter circuit breakers

- 10,000 A interrupting capacity at 120 Vac, 120/240 Vac, and 240 Vac

An arc fault circuit interrupter is a device intended to provide protection from the effects of arc faults by recognizing characteristics unique to arcing and by functioning to de-energize the circuit when the arc fault is detected As of January 1, 2015, the Canadian Electrical Code now requires that all branch circuits that supply 125 V, single-phase, 15 and 20 A receptacle outlets installed in dwelling unit shall be protected by a combination arc fault circuit interrupter(s) (series arc and parallel arc detection).

BRP115DFC

BRP115AFC

BRF115

Table 14. Single and two-pole plug-in AFCI circuit breakers

Ampere rating	Configuration	Catalogue number Plug-on Neutral Breaker [e] Single-pole 120/240 Vac 20 per shelf carton 10 kAIC	Pigtail Breaker	Two-pole a 120/240 Vac 5 per shelf carton 10 kAIC	Wire size range (Cu/Al 60 °C or 75 °C)
15	Combination	**BRP115AFC** [df]	**BRN115AFC** [df]	**BRL215CAF** [bc]	#14–4 AWG
15	High interrupting 22 kAIC	—	**BRHN115AF** [f]	—	#14–4 AWG
20	Combination	**BRP120AFC** [df]	**BRN120AFC** [df]	**BRL220CAF** [bc]	#14–4 AWG
20	High interrupting 22 kAIC	—	**BRHN120AF** [f]	—	#14–4 AWG
		Requires one 1.00 inch (25.4 mm) space		Requires two 1.00 inch (25.4 mm) spaces	

[a] Common trip refers to two-pole 240 V load application sourced by 120/240 Vac (see **Figure 2**).
[b] Will not fit into CPM112, CPL112, CPL116, CPL120, CPL220, CPL240, 3CPM112, 3CPL218, 3CPL224 or 3CPL230 prior to November 2004.
[c] Long style circuit breakers. Please speak to your local Eaton sales rep for proper application.
[d] CSA marked only
[e] Only for use in the Type BR plug-on neutral style of combination and non-combination loadcentres
[f] Blink code available for this breaker. See **Table 14**.

Table 15. Electronic breaker blink codes

Blink code pattern	Description
1	Series Arc Ⓐ
2	Parallel Arc Ⓐ
3	Overload
4	Overvoltage
5	Ground Fault Ⓒ
6	Self Test Failure

Ⓐ **Arc Fault Function only:** Does not apply to GFCI devices.
Ⓒ **Ground Fault function only:** Does not apply to AFCI devices.

Table 16. Single-pole plug-in dual purpose AF/GF breakers

Ampere rating	Configuration	Pon Breaker [b] Single-pole, 120/240 Vac 10 per shelf carton, 10 kAIC Catalogue number	Pigtail Breaker
15	CAFCI / 5 mA [GF]	**BRP115DFC** [ac]	**BRN115DFC** [ac]
20	CAFCI / 5 mA [GF]	**BRP120DFC** [ac]	**BRN120DFC** [ac]
	Compact body breaker	Requires one 1.00 inch (25.4 mm) space	

[a] CSA marked only

[b] Only for use in the Type BR plug-on neutral style of combination and non-combination loadcentres

[c] Blink code available for this breaker. See **Table 16**

Figure 1. Single-pole, single 120 V load application sourced by 120/240 Vac

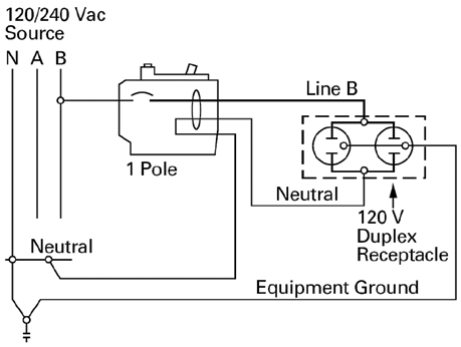


Figure 2. Two-pole, 240 V load application sourced by 120/240 Vac

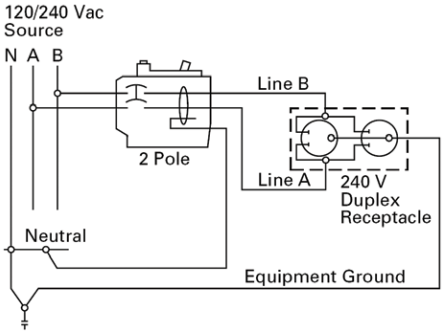


Table 17. Single-pole plug-in fire alarm breakers

Ampere rating	Configuration	Single-pole, 120/240 Vac 10 per shelf carton, 10 kAIC Catalogue number
15	Branch fire alarm	**BRF115**
20	Branch fire alarm	**BRF120**
	Compact body breaker	Requires one 1.00 inch (25.4 mm) space

Types BRP/BRN and GFTCB/GFEP ground fault

Type GFCB and GFEP ground fault circuit breakers

- 10,000/22,000 A interrupting capacity at 120 Vac and 120/240 Vac
- 5 mA "people protection", or 30 mA equipment protectors
- Two-pole version features common trip

BRN220GF

BRP115GFC

Table 18. (5 mA) single and two-pole plug-in ground fault circuit breakers

		Catalogue number				
		Single-pole, 120 Vac, 10 kAIC 1 per shelf carton	Pigtail Breaker		Two-pole, 120/240 Vac 1 per shelf carton	
Ampere rating	Wire size range Cu/Al 60 °C or 75 °C (AWG)	Plug-on Breaker [b] 10 kAIC	Pigtail Breaker 10 kAIC	22 kAIC	10 kAIC	22 kAIC
15	#14–8	BRP115GFC [ac]	BRN115GFC [ac]	BRHN115GF [c]	BRN215GF [de]	GFTCBH215
20	#14–8	BRP120GFC [ac]	BRN120GFC [ac]	BRHN120GF [c]	BRN220GF [de]	GFTCBH220
25	#14–8	–	BRN125GFC [ac]	BRHN125GF [c]	BRN225GF [de]	GFTCBH225
30	#14–8	–	BRN130GFC [ac]	BRHN130GF [c]	BRN230GF [de]	GFTCBH230
40	#14–8	–	–	–	BRN240GF [de]	—
50	#14–8	–	–	–	BRN250GF [de]	—
60	#14–4	–	–	–	BRN260GF [de]	—
		Requires one 1.00 inch (25.4 mm) space			Requires two 1.00 inch (25.4 mm) spaces	

a CSA marked only.
b Only for use in the Type BR plug-on neutral style of combination and non-combination loadcentres.
c Blink code available for this breaker. See **Table 15**.
d 12 new trip codes available with LED indication. Refer to 12 Electronic breaker blink codes below.
e cUL marked.

12 Electronic Breaker Blink Codes

Blink pattern	Trip diagnosis
	Startup sequence
	Digital command error
	Microprocessor error
	GFCI hardware error
	Power quality issue
	Over-voltage
	Over-current trip
	Grounded neutral fault
	Low-level ground fault
	High-level ground fault
	Cold-start ground fault
No blink after startup	Mechanical trip (ex: short circuit)

Table 19. (30 mA) single and two-pole plug-in ground fault circuit breaker equipment protectors

Ampere rating	Wire size rangeCu/Al 60 °C or 75 °C (AWG)	Pigtail Breaker Single-pole, 120 Vac, 1 per shelf carton 10 kAIC	Two-pole, 120/240 Vac 1 per shelf carton 10 kAIC
15	#14–8	**BRN115EP** [b]	**BRN215EP**
20	#14–8	**BRN120EP** [b]	**BRN220EP**
25	#14–8	**BRN125EP** [b]	**BRN225EP**
30	#14–8	**BRN130EP** [b]	**BRN230EP**
40	#14–8	–	**BRN240EP**
50	#14–8	–	**BRN250EP**
		Requires one 1.00 inch (25.4 mm) space	Requires two 1.00 inch (25.4 mm) spaces

[a] For use with copper wire only.

[b] Blink code available for this breaker. See **Table 15**

[c] Long style circuit breakers. Please speak to your local Eaton sales rep for proper application

Ground fault application note

Single-pole ground fault circuit breakers (GFCBs) are designed for use in two-wire, 120 Vac circuits. **Figure 3** shows a typical wiring configuration . Two-pole GFCBs are designed for use in three-wire, 120/240 Vac circuits, 120 Vac multi-wire circuits employing common, neutral and two-wire, 240 Vac circuits obtained from a 120/240 Vac source. **Figure 4** and Figure 6 illustrate typical wiring configurations for 120/240 Vac multi-wire circuits. **Figure 5** depicts a 240 Vac, two-wire circuit.

Note: The "panel neutral" conductor connects to the neutral bar, even though the neutral is not included in the load circuit. This connection is necessary to supply a 120 Vac power source to the ground fault sensing circuit. The figures are shown with a 120/240 Vac, single-phase, three-wire power source, but are also applicable to a 120/208 Vac, three-phase, four-wire power supply . For all figures, the electrical operation of the GFCB is not affected by the equipment ground.

Figure 3. Single-pole

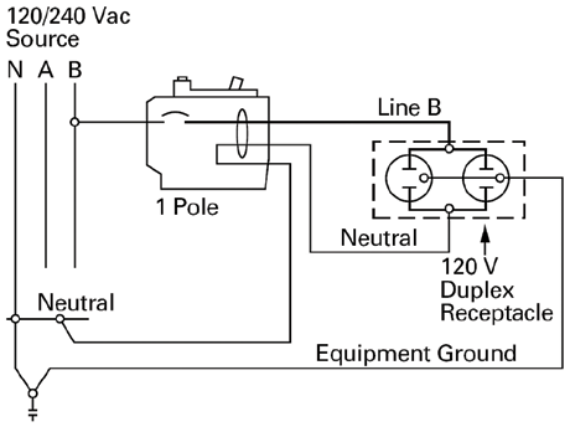


Figure 5. Two-pole

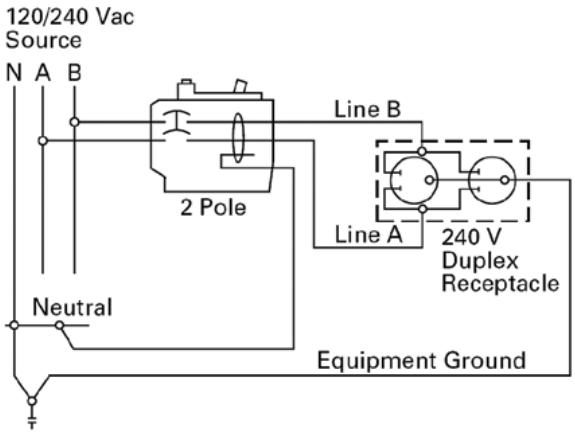


Figure 4. Two-pole

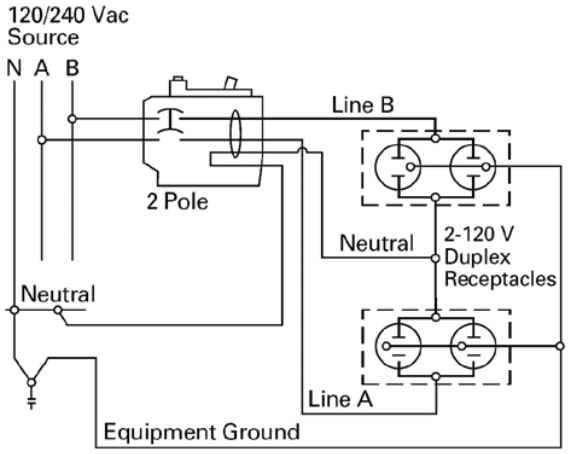
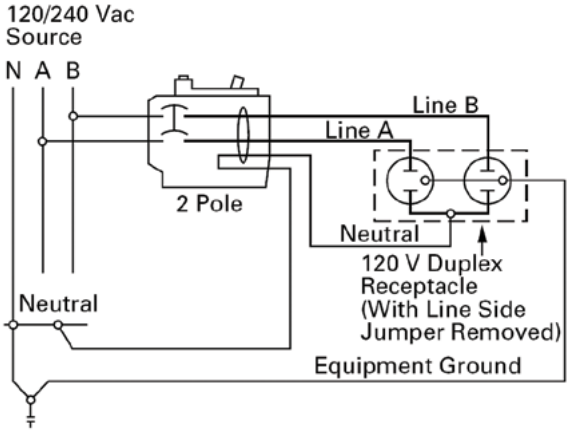


Figure 6. Two-pole



Type CSR, and CCV

Type CSR loadcentre main circuit breaker

- 25,000 A interrupting capacity at 120/240 Vac

CSR2150N

Table 20. Two-pole main circuit breakers for single-phase plug-in combination loadcentres

Ampere rating	Wire size range Cu/Al 60 °C or 75 °C	Catalogue number Two-pole, 120/240 Vac 1 per shelf carton 25 kAIC
100	#2 AWG–300 kcmil	**CSR2100**
125	#2 AWG–300 kcmil	**CSR2125N**
150	#2 AWG–300 kcmil	**CSR2150N**
200	#2 AWG–300 kcmil	**CSR2200N**
200	#2 AWG–300 kcmil	**200MBKIT**[a]

[a] 200MBKIT includes CSRN2200N with lock-off, nuts, press stud & IL003039EN , IL003039FC

Type CC loadcentre main circuit breaker kit

CC3150

Table 21. Three-pole main circuit breakers for three-phase plug-in combination loadcentres

Ampere rating	Wire size range Cu/Al 60 °C or 75 °C	Catalogue number Three-pole, 120/240 Vac 1 per shelf carton 10 kAIC
100	#4 AWG–4/0 AWG	**CCV3100**
125	#2 AWG–300 kcmil	**CCV3125**
150	#2 AWG–300 kcmil	**CCV3150**
200	#2 AWG–300 kcmil	**CCV3200**

Plug-in circuit breaker accessories

BRLW2-10

BHLW2-10

BRQLW-10

BHLW-10

MCBPL (installed)

Table 22. Field installation kits and parts for plug-in loadcentre circuit breakers

Description	Ordering quanity [a]	Catalogue number
Handle lockoff (escutcheon mounted). Single-, two-, or three-pole Type BR; single-pole of a Type DNPL duplex or; one independent outside	1	**BRLW-10**
Handle lockoff (handle mounted). Single-pole Type BR circuit breakers. [b]	1	**BRLW1-10**
Handle lockoff (handle mounted). Two- and three-pole Type BR circuit breakers. [b]	1	**BRLW2-10**
Handle lockoff (handle mounted). Single-pole Type DNPL quadplex circuit breakers. [b]	1	**BRDL1-10**
Handle lockoff (escutcheon mounted). Two-pole Type DNPL quadplex circuit breakers. [b]	1	**BRQLW-10**
Handle lockoff (screw mounted). Locks the handle of main circuit breaker types CC and CHH in the OFF or ON position. [b]	1	**CCPL**
Handle lockoff (escutcheon mounted). Locks the handle of main circuit breaker type CSR and BWH in the OFF of ON position. [b]	1	**MCBPL**
Handle lockdog (escutcheon mounted). Single-, two-, and three-pole Type BR; single-pole of a Type DNPL duplex or; one independent	1	**BHLW-10**
Handle lockdog (handle mounted). Single-pole Type BR circuit breakers. Secures handle in the ON or OFF position. [b]	1	**BHLW1-10**
Handle lockdog (handle mounted). Two- and three-pole Type BR circuit breakers. Secures handle in the ON or OFF position. [b]	1	**BHLW2-10**
Handle lockdog (handle mounted). Single-pole Type GFCB ground fault circuit breakers. Secures handle in the ON or OFF position. [b]	1	**BHGW-10**
Handle lockdog (handle mounted). Single-pole Type DNPL duplex or 1 outside independent pole of a quadplex. Secures handle in the	1	**HLW1-10**
Main breaker lug kit. Types CC and CHH circuit breakers (2) 300 kcmil	1	**CCL300**
Main breaker lug kit. Types CSR, BW, and BWH circuit breakers (2) 300 kcmil	1	**MCBL300**
Electronic breaker lockoff (escutcheon mounted): Type BR long body AF/GF	1	**BRLAFGFLOFF**
Electronic breaker lockoff (escutcheon mounted): Type BR compact body AF	1	**BRCAFLOFF**

[a] Must be purchased in multiples of ordering quantities indicated.

[b] Refer to your local Eaton sales representative for handle position changeability chart.

Definitions

Handle lockoffs: Devices that use a padlock to lock a circuit breaker's handle in either the ON or OFF position.
Handle lockdogs: Devices used to secure a circuit breaker's handle in the ON or OFF 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.
Screw mounted: A permanent mounting to the face of the circuit breaker by means of a non-removable screw.

Product description

As a leader in the electrical distribution equipment business, Eaton has a unique product offering for equipment manufacturers, panel builders and virtually any OEM that has a need for power distribution within their equipment The OEM interior offering consists of a wide variety of power distribution options utilizing components from Eaton's BR Loadcentre product lines With high-volume, standardized products, OEMs can expect to receive high-quality products covering configurations meeting virtually any power distribution need.

Coupled with Eaton's expertise in circuit breaker design and manufacturing, our OEM interiors provide solid power distribution and circuit protection in a compact, easy-to-install package.

Product offering

The BR interiors are manufactured of formed, plated aluminum, and use the Eaton Type BR 1.00 inch (25.4 mm) wide circuit breaker by Eaton This design affords customers the most circuit flexibility as many of these interiors allow the installation of standard single and two-pole breakers as well duplex (two-pole in a 1.00 inch (25.4 mm) space) or quadplex (four-pole in a 2.00 inch (50.8 mm) space) breakers The stab rating of the BR interiors is 140 A maximum, meaning that the handle rating of the breakers that are mounted across from one another may not exceed 140 A.

The interiors are designed for either horizontal (single-row breaker mounting), or vertical (double-row breaker mounting).

Canadian Standards Association listing

All single and two-pole, 120/240 V breakers, both 1-inch (25.4 mm), 1/2-inch (12.7 mm) and 3/4-inch (19.1 mm) per pole, 225 A maximum, are listed as certified by the Canadian Standards Association, Guide No 69-11.19, Class 1432, File 18328.

Underwriters Laboratories listing

All grounding bars manufactured comply with Underwriters Laboratories standards and are listed under Guide No DHJR, File E31424, Volume W, Section 17.

All circuit breakers 10 A and larger comply with the Underwriters Laboratories "Standard for Branch Circuit and Service Circuit-Breakers" UL 489; Guide No 60 10.2 File E31424, and "Requirements for Wire Connectors and Soldering Lugs," UL 486B, Guide No 461 10-C File E7830.

All Eaton breakers where marked, are suitable for use with 60/75 ° rated wire, unless otherwise specified.

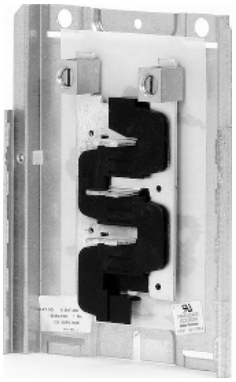
All devices comply with the 22–10 kAIC UL series connected components File DKSY2 of the Recognized Components Index.

Standards and certifications

Product selection

48INT125B

816INT125B



2424INT125B

Table 23. Plug-in OEM loadcentre interior assemblies

Ampere rating	1-inch spaces	½-inch spaces	Main terminal size (per phase)	Package quantity	Catalogue number
125	4	8	(1) 2/0–#14 AWG Cu/Al	20	**48INT125B**
125	8	16	(1) 2/0–#14 AWG Cu/Al	20	**816INT125B**
125	12	24	(1) 2/0–#14 AWG Cu/Al	20	**1224INT125B**
125	16	24	(1) 2/0–#14 AWG Cu/Al	20	**1624INT125B**
125	20	24	(1) 2/0–#14 AWG Cu/Al	10	**2024INT125B**
125	24	24	(1) 2/0–#14 AWG Cu/Al	10	**2424INT125B**

Plug-in OEM loadcentre interior assemblies

Dimensions

Figure 7. 48INT125B

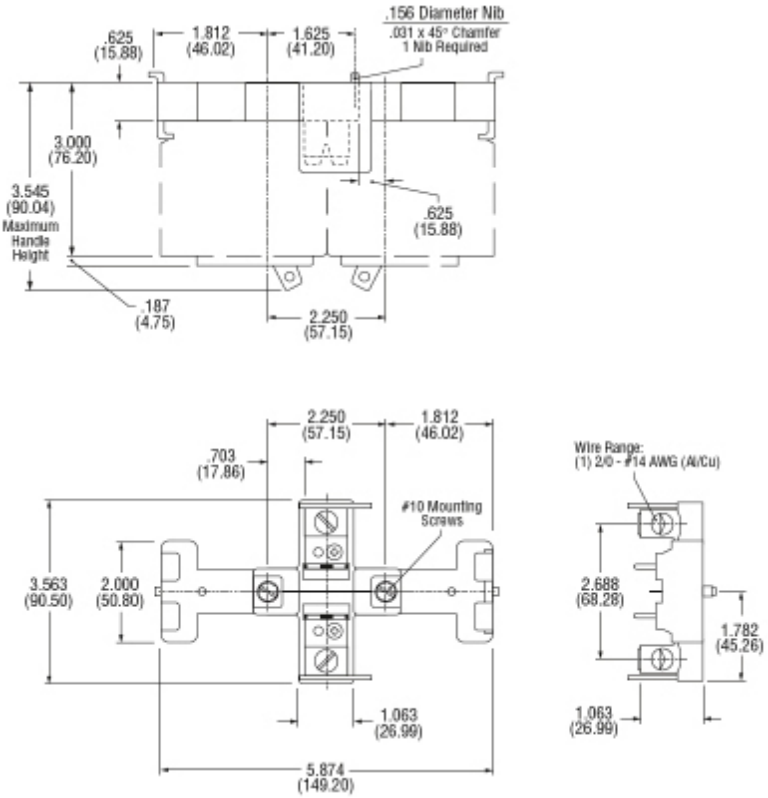


Figure 8. 816INT125B

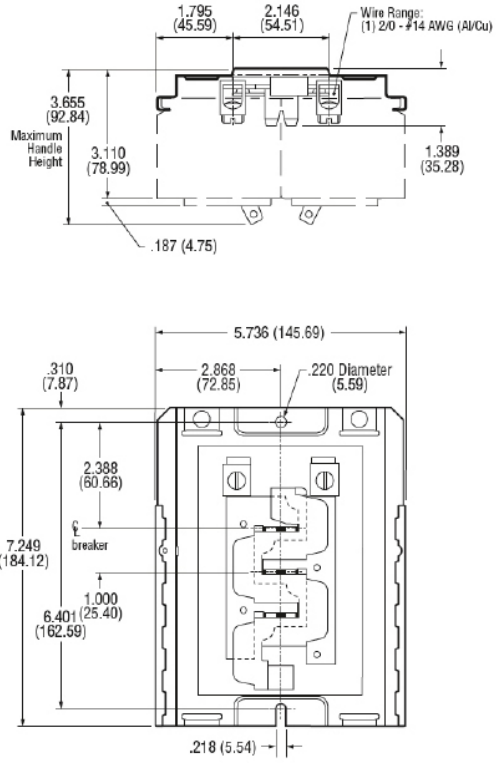


Figure 9. 1224INT125B

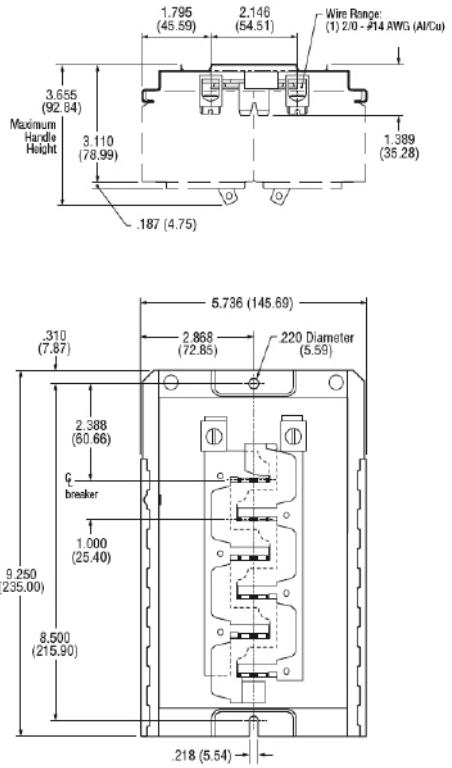


Figure 10. 1624INT125B

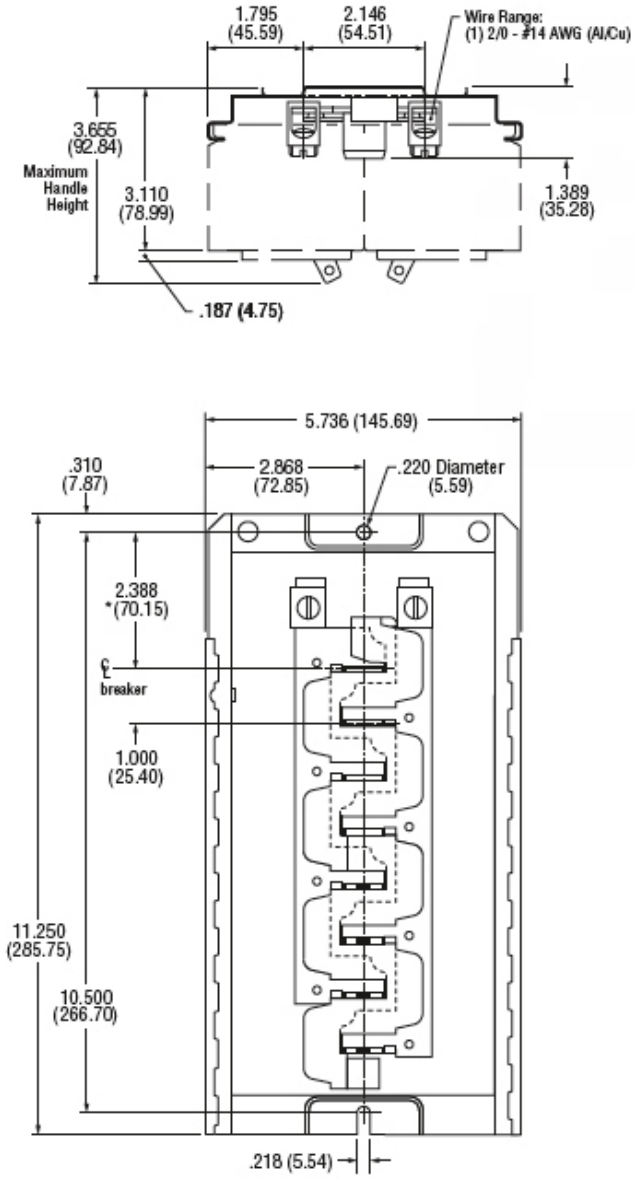
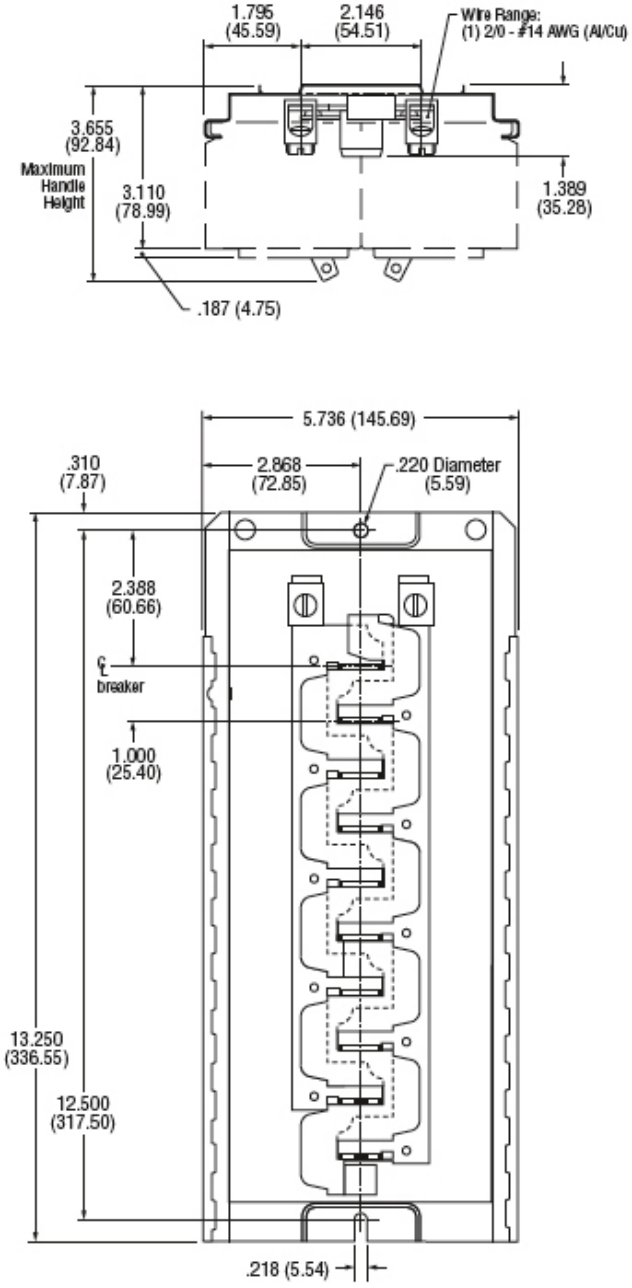
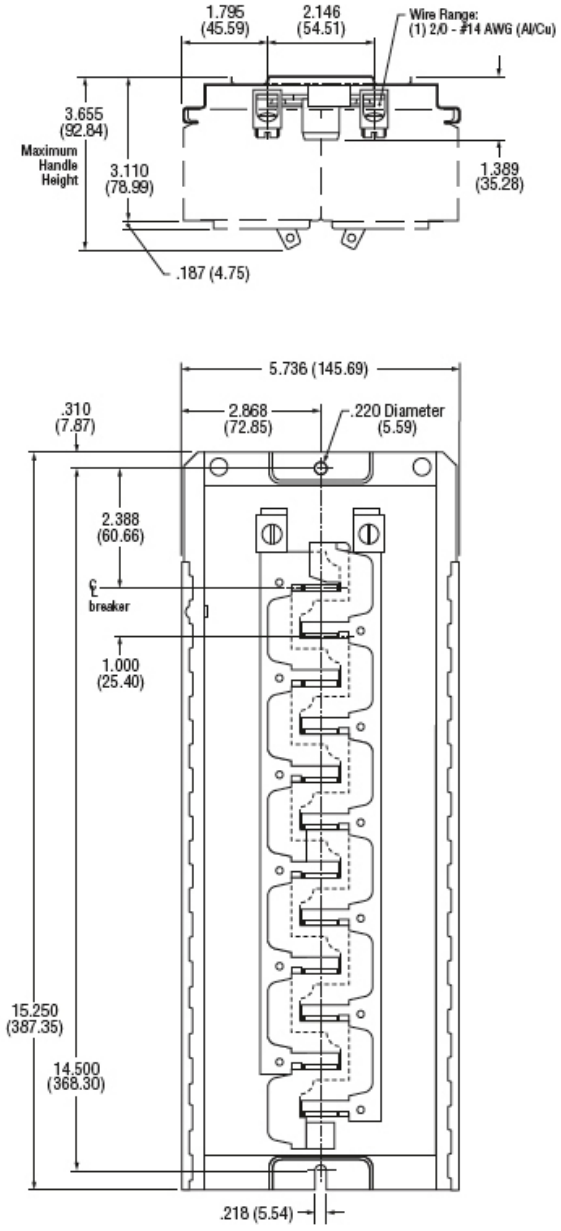


Figure 11. 2024INT125B



Plug-in OEM loadcentre interior assemblies

Figure 12. 2424INT125B



Product description

Loadcentres feature factory installed main lugs or main circuit breakers The CH interiors are manufactured of formed, silver flash plated copper Eaton also supplies a full line of Type CH branch circuit breakers and accessories for these loadcentres.

Product application

Designed for the protection and distribution of single and multidwelling residential and light commercial loads to 120/240 volts AC, such as lighting, heating, appliance and small motor branch circuits All main circuit breaker combination loadcentres are CSA listed for use as service entrance equipment.

Ratings

Single-phase, three-wire, 120/240 volts AC Mains through 200 A. Available with up to 120 branch circuits Main breakers on 100 and 200 A panels are rated at 35,000 AIC.

Metal enclosure specifications

Enclosures are made of 16 gauge galvanized sheet steel powder coated sandalwood beige The galvanized coating provides corrosion protection Trims are similarly scratch-resistant powder coated a sandalwood beige colour to match the tub A combination surface/ flush cover with integral door is supplied

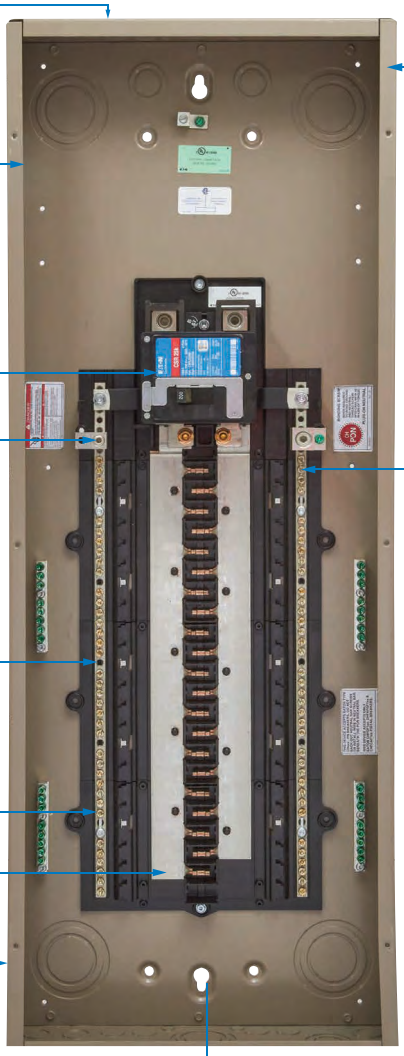
All plug-in loadcentres are CSA listed to file LL98266

Warranty

- Limited lifetime warranty on CH products and 10-year warranty on CH electronic (AFCI/GFCI) breakers

Type CH plug-on neutral loadcentre features and benefits

CCHPM242



Optimized Knockouts
- Provide additional access and allow for easier removal improving installation times

Smooth Case Edges
- Provide a more professional look and feel

Commercial Grade Main Breaker
- 25 kAIC series rated main breaker in 150 A-225 A loadcenters. 35, 42 and 100 kAIC series ratings are available

2/0 Lug
- Easily removable and can be installed in any location on the neutral bar

Full Length Neutral Bars
- Offer flexibility of placing electronic breakers at any space within the panel
- Offer easy installation of neutral connection time and labor savings

Inboard Neutral
- Increases gutter space to allow for the installation of conductors

One Piece Silver - Flashed Copper Bus
- Provides superior conductivity, corrosion resistance and durability

Drywall Offsets (located on both sides of enclosure)
- Allow for faster installation using predetermined self-leveling tabs

Unique Sandalwood Finish
- Aesthetically appealing, scratch resistant powder coating

Plug-On Neutral
- Eliminates the pigtail connection providing time and labor savings
- Provides a professional installation

Type CHF AFCI/GFCI/Thermal Magnetic Breakers
- Advanced electronics effectively reduce nuisance tripping
- CHF AFCI breakers have a standard diagnostic LEO indicating 1 of 7 trip codes
- Mechanical flag for trip indication (on thermal-magnetic AFCI and GFCI)
- All CH breakers provide industry exclusive 2-position handle with simple 1 step reset

Cover Features not Shown:

Improved Cover Twist-Outs
- Easier to remove twist outs

Embossed Cover Circuit Numbers
- Durable circuit numbering with added marking for twin breakers

Cover Keyhole Hanging Feature
- Provide easier cover installation by allowing quick hanging of cover regardless of orientation of the panel

Rigid Center Cover Spine
- Provides strengthened center spine when the twistouts are removed

Single Keyhole Mounting
- One keyhole at the top and bottom provides easier mounting and leveling

Combination and non-combination single-phase

Three-wire 120/240 Vac plug-on neutral style combination service entrance Type 1 (indoor)

Table 24. Type CH Main circuit breaker plug-on neutral indoor Type 1 loadcentres

Maximum ampere rating	Main breaker rating	Max. no. 3/4-inch spaces	Cover style	Type of main circuit breaker	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	100	24	Flush/surface	CSR	29.13 (739.8)	14.3 (363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPM124**
125	100	32	Flush/surface	CSR	34.13 (866.8)	14.3 (363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPM132**
125	125	32	Flush/surface	CSR	34.13 (866.8)	14.3 (363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPM132Z**
125	100	42	Flush/surface	CSR	37.00 (939.8)	14.3 (363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPM142**
125	125	42	Flush/surface	CSR	37.00 (939.8)	14.3 (363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPM142Z**
225	200	42	Flush/surface	CSR	37.00 (939.8)	14.3 (363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPM242**
225	200	60	Flush/surface	CSR	45.00 (1143.0)	14.3 (363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPM260**

Three-wire 120/240 Vac plug-on neutral style non-combination service entrance Type 1 (indoor)

Table 25. Type CH main lug only plug-on neutral indoor Type 1 loadcentres

Maximum ampere rating	Max. no. 3/4-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	24	Flush/surface	29.13 (739.8)	14.3(363.2)	3.9 (99.06)	#2–300 kcmil	**CCHPL124**
225	32	Flush/surface	34.13 (866.8)	14.3(363.2)	3.9 (93.06)	#2–300 kcmil	**CCHPL232**

Three-wire 120/240 Vac standard neutral non-combination Type 3R (outdoor/raintight) [ab]

CH6L125R

RCCHL102

Table 26. Type CH main lug only standard neutral outdoor/raintight Type 3R loadcentres [a]

Maximum ampere rating	Catalogue number	Max. no. 3/4-inch spaces	Max. no. 3/8-inch spaces	Enclosure style	Dimensions in inches (mm) H	W	D	Wire size range for main CU/AL
125	**RCCHL102**	2	4	Indoor/outdoor Type 3R [ac]	12.00 (304.8)	6.88 (174.62)	4.38 (111.13)	#14–1/0
125	**CH6L125R**	6	12	Indoor/outdoor Type 3R	12.00 (304.8)	6.88 (174.62)	4.38 (111.13)	#14–1/0

[a] Outdoor loadcentres accommodate Type DS conduit hubs. Hubs not included. See page 15 for selection.
[b] Does not accept plug-on neutral style of arc fault and ground fault circuit breakers. Uses standard type arc fault and ground fault circuit breakers.
[c] Enclosure assembly incorporates a swing out locking hasp for the cover.

Type CH single, multi-pole, and twin

Type CH plug-in circuit breakers [a]

- 10,000 A interrupting capacity at 120/240 Vac
- Flag trip models provide visual indication of trip

Product selection

Table 27. Single and multi-pole plug-in breakers

		Catalogue Number		
Ampere rating	Wire size range (Cu/AL 60 °C or 75 °C) (AWG)	Single-pole, 120/240 Vac Flag trip indication 10 per shelf carton	Two-pole, 120/240 Vac Flag trip indication 5 per shelf carton	Three-pole, 240 Vac Standard 5 per shelf carton
15	(1) #14–8 [b], (2) #14–10 [bc], (1) #14–6 [d]	**CHF115**	**CHF215**	**CH315** [h]
20	(1) #14–8 [b], (2) #14–10 [bc], (1) #14–6 [d]	**CHF120**	**CHF220**	**CH320** [h]
25	(1) #14–8 [b], (2) #14–10 [bc], (1) #14–6 [d]	**CHF125**	**CHF225**	**CH325** [h]
30	(1) #14–8 [b], (2) #14–10 [bc], (1) #14–6 [d]	**CHF130**	**CHF230**	**CH330** [h]
35	#14–2 [b], #14–6 [d]	**CHF135**	**CHF235**	**CH335** [h]
40	#10–1/0 [e], #14–2 [f], #3–0 [g]	**CHF140**	**CHF240**	**CH340** [h]
45	#10–1/0 [e], #14–2 [f], #3–0 [g]	**CHF145**	**CHF245**	**CH345** [h]
50	#10–1/0 [e], #14–2 [f], #3–0 [g]	**CHF150**	**CHF250**	**CH350** [h]
60	#10–1/0 [e], #14–2 [f], #3–0 [g]	**CH160**	**CHF260**	**CH360** [h]
70	#10–1/0 [e], #14–2 [f], #3–0 [g]	**CH170**	**CH270**	**CH370** [h]
80	#10–1/0 [e], #14–2 [f], #3–0 [g]	**—**	**CH280**	**CH3080**
90	#10–1/0 [e], #14–2 [f], #3–0 [g]	**—**	**CH290**	**CH3090**
100	#10–1/0 [e], #14–2 [f], #3–0 [g]	**—**	**CH2100**	**CH3100**
110	#10–1/0 [e], #14–2 [f], #3–0 [g]	—	—	—
125	#10–1/0 [e], #14–2 [f], #3–0 [g]	—	**CH2125**	—
		Requires one ¾-inch (19.1 mm) space	Requires two ¾-inch (19.1 mm) spaces	Requires three ¾-inch (19.1 mm) spaces

[a] Not for use in Type BR loadcentres
[b] For single and two-pole breakers.
[c] Solid and stranded wire can be used together.
[d] For three-pole breakers.
[e] Single-pole 60–70 A, two-pole 80–125 A, three-pole 40–100 A.
[f] Single-pole 40–50 A, two-pole 40–70 A.
[g] Two-pole 150 A.
[h] HACR rated.

Type CH Twin Circuit Breakers [abc]

- 10,000 A interrupting capacity at 120/240 Vac
- Provides 2 single-pole circuits in one ¾-inch space

Table 28. Twin plug-in circuit breakers

		Catalogue Number
Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C) (AWG)	Single-pole, 120/240 Vac 10 per shelf carton
15-15	#14–8	**CHT1515**
15-20	#14–8	**CHT1520**
20-20	#14–8	**CHT2020**
		Requires one ¾-inch (19.1 mm) space

[a] Switching duty rated.
[b] HACR rated.
[c] Not for use in Type BR loadcentres i.e. CPM or CPL prefixed catalogue numbers.

Type CH arc fault circuit interrupter

Type CH arc fault circuit interrupter circuit breakers [a]

- 10,000 A interrupting capacity at 120 Vac, and 120/240 Vac
- Plug-on neutral style for plug-on neutral type CH loadcentres

An arc fault circuit interrupter is a device intended to provide protection from the effects of arc faults by recognizing characteristics unique to arcing and by functioning to de-energize the circuit when the arc fault is detected As of January 1, 2015, the Canadian Electrical Code now requires that all branch circuits that supply 125 V, single-phase, 15 and 20 A receptacle outlets installed in dwelling unit shall be protected by a combination arc fault circuit interrupter(s) (series arc and parallel arc detection).

CHFN115AF

CHFN115DF

Table 29. Single and two-pole plug-in FIRE-GUARD AFCI circuit breakers

			Catalogue Number	
Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C) (AWG)	Configuration	Single-pole, 120/240 Vac 10 per shelf carton 10 kAIC	Two-pole, 120/240 Vac 5 per shelf carton 10 kAIC [b]
15	#14–4	Pigtail	**CHFN115AF** [d]	**CHN215CAF**
15	#14–4	Plug-on neutral [c]	**CHFP115AF** [d]	—
20	#14–4	Pigtail	**CHFN120AF** [d]	**CHN220CAF**
20	#14–4	Plug-on neutral [c]	**CHFP120AF** [d]	—
			Requires one ¾-inch (19.1 mm) space	Requires two ¾-inch (19.1 mm) spaces

[a] Not for use in Type BR loadcentres
[b] Common trip refers to two-pole 240 V load application sourced by 120/240 Vac (see **Figure 14**).
[c] Only for use in the Type CH plug-on neutral style of combination and non-combination loadcentres.
[d] Blink code available for this breaker. See **Table 30**.

Table 30. Electronic breaker blink codes

Blink code pattern	Description
1	Series Arc Ⓐ
2	Parallel Arc Ⓐ
3	Overload
4	Overvoltage
5	Ground Fault Ⓖ
6	Self Test Failure

Ⓐ Arc Fault Function only: Does not apply to GFCI devices.
Ⓖ Ground Fault function only: Does not apply to AFCI devices.

Figure 13. Single-pole, single 120 V load application sourced by 120/240 Vac

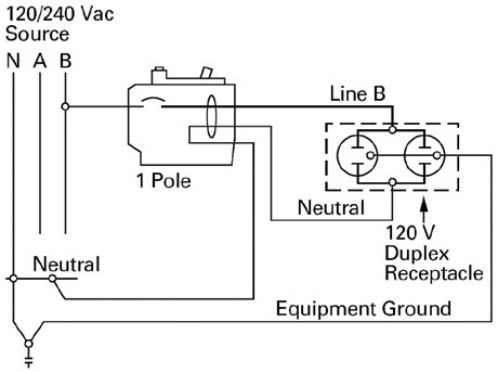


Figure 14. Two-pole, 240 V load application sourced by 120/240 Vac

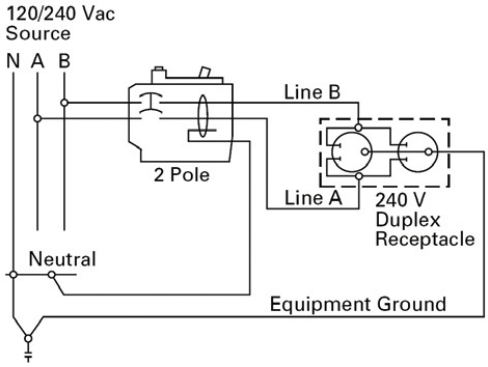


Table 31. Single-pole plug-in dual purpose AF/GF circuit breakers

Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C) (AWG)	Configuration	Catalogue number Single-pole 120/240 Vac 10 per shelf carton 10 kAIC
15	#14–4	Pigtail	**CHFN115DF** [b]
15	#14–4	Plug-on neutral [a]	**CHFP115DF** [b]
20	#14–4	Pigtail	**CHFN120DF** [b]
20	#14–4	Plug-on neutral [a]	**CHFP120DF** [b]
	Combination AFCI and 5 mA people protection ground fault		Requires one ¾-inch (19.1 mm) space

[a] Only for use in the Type CH plug-on neutral style of combination and non-combination loadcentres.
[b] Blink code available for this breaker. See table 30

Type CH ground fault

Type CH ground fault circuit breakers [a]

- 10,000 A interrupting capacity at 120 Vac and 120/240 Vac
- 5 mA "people protection" or 30 mA equipment protectors
- Two-pole version features common tripTable

Type CH two-pole GFCI circuit breaker

Table 32. (5 mA) single and two-pole plug-in ground fault circuit breakers

		Catalogue Number		
Ampere rating	Wire size range Cu/Al 60 °C or 75 °C (AWG)	Single-pole, 120 Vac Standard Pigtail 1 per shelf carton 10 kAIC	Single-pole, 120 Vac Plug-on neutral [b] 1 per shelf carton 10 kAIC	Two-pole 120/240 Vac Standard 1 per shelf carton 10 kAIC
15	#14–6 [c]	**CHFN115GF** [d]	**CHFP115GF**	**CHFN215GF**
20	#14–6 [c]	**CHFN120GF** [d]	**CHFP120GF**	**CHFN220GF**
25	#14–6 [c]	**CHFN125GF** [d]	—	**CHFN225GF**
30	#14–6 [c]	**CHFN130GF** [d]	—	**CHFN230GF**
35	#14–6 [c]	—	—	**CHFN235GF**
40	#14–6 [c]	—	—	**CHFN240GF**
45	#14–6 [c]	—	—	**CHFN245GF**
50	#14–6 [c]	—	—	**CHFN250GF**
60	#14–6 [c]	—	—	**CHFN260GF**
	Requires two ¾-inch (19.1 mm) spaces			Requires two ¾-inch (19.1 mm) spacesa

[a] Not for use in Type BR loadcentres.
[b] Only for use in the Type CH plug-on neutral style of combination and non-combination loadcentres.
[c] 60 A breaker listed for 75 °C Cu wire only.
[d] Blink code available for this breaker. See **Table 30**.

Table 33. (30 mA) single and two-pole plug-in ground fault circuit breaker equipment protectors

		Catalogue number	
Ampere rating	Wire size range Cu/Al 60 °C or 75 °C (AWG)	Single-pole, 120 Vac 1 per shelf carton 10 kAIC	Two-pole 120/240 Vac 1 per shelf carton 10 kAIC
15	#14–6 a	**CHFN115EP b**	**CH215EPD**
20	#14–6 a	**CHFN120EP b**	**CH220EPD**
25	#14–6 a	**CHFN125EP b**	—
30	#14–6 a	**CHFN130EP b**	**CH230EPD**
40	#14–6 a	—	**CH240EPD**
50	#14–6 a	—	**CH250EPD**
60	#14–6 a	—	**CH260EPD**
		Requires one ¾-inch (19.1 mm) space	Requires two ¾-inch (19.1 mm) spaces

[a] 60 A breaker listed for 75 °C Cu wire only.
[b] Blink code available for this breaker. See table 30

Ground fault application

Single-pole ground fault circuit breakers (Type CHGFIs) are designed for use in two-wire, 120 Vac circuits **Figure 15** shows a typical wiring configuration Two-pole ground fault circuit breakers (Type CHGFIs) are designed for use in three-wire, 120/240 Vac circuits, 120 Vac multi-wire circuits employing common, neutral and two-wire, 240 Vac circuits obtained from a 120/240 Vac source **Figure 16** and **Figure 17** illustrate typical wiring configurations for 120/240 Vac multi-wire circuits **Figure 18** depicts a 240 Vac, two-wire circuit Note the "panel neutral" conductor connects to the neutral bar, even though the neutral is not included in the load circuit This connection is necessary to supply a 120 Vac power source to the ground fault sensing circuit The figures are shown with a 120/240 Vac, single-phase, three-wire power source, but are also applicable to a 120/208 Vac, three-phase, four-wire power supply For all figures the electrical operation of the Type CHGFI is not affected by the equipment ground

Figure 15. Single-pole single 120 V duplex receptacle application

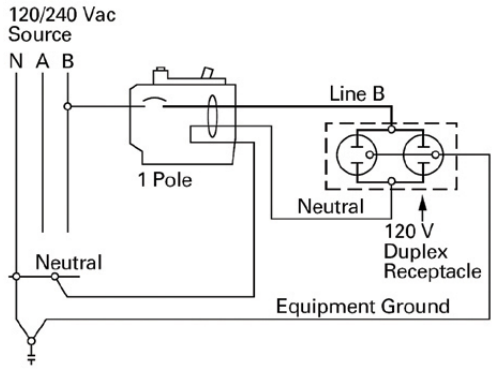


Figure 16. Two-pole 120 V multi-duplex receptacle application

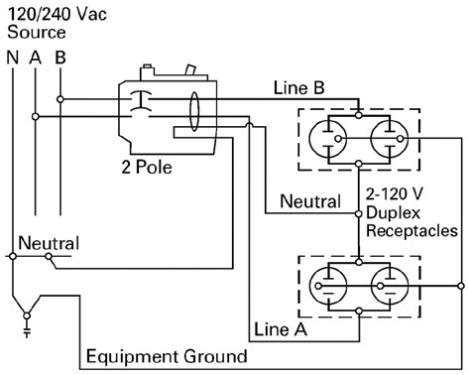


Figure 17. Two-pole 120 V duplex receptacle application

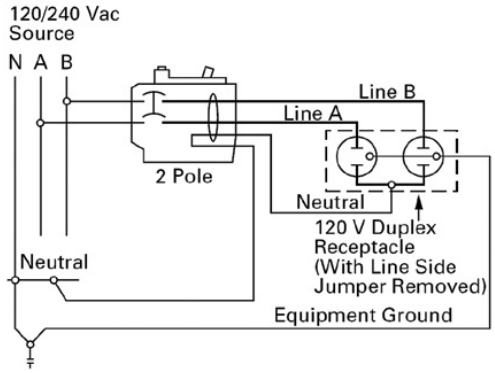
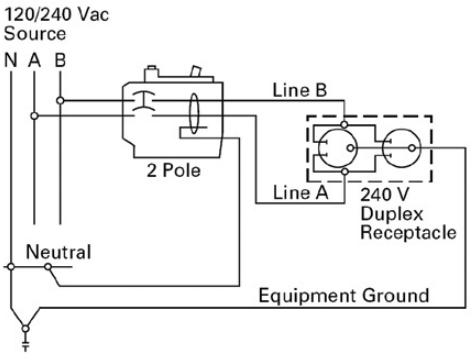


Figure 18. Two-pole 240 V duplex receptacle application



Type CSR

Type CSR loadcentre main circuit breaker kit

- 25,000 A interrupting capacity at 120/240 Vac

Product selection

CSR2150N

Table 34. Two-pole main circuit breakers for single-phase plug-in combination loadcentres

Ampere rating	Wire size range Cu/Al 60 °C or 75 °C	Catalogue number Two-pole, 120/240 Vac 1 per shelf carton 25 kAIC
100	#2 AWG–300 kcmil	**CSR2100**
125	#2 AWG–300 kcmil	**CSR2125N**
150	#2 AWG–300 kcmil	**CSR2150N**
200	#2 AWG–300 kcmil	**CSR2200N**

Type CH loadcentre and circuit breaker accessories

Table 35a. Field installation kits and parts for plug-in loadcentres and circuitbreakers

Description	Ordering quantity [a]	Catalogue number
Bonding kit for bonding the neutral bus to the loadcenter	1	**BONDKITP**
Brown cover replacement latch—indoor loadcenters	1	**LATCHPS**
Retaining bracket for backfed main breaker—CH	1	**CHPHD**

Table 35b. Legacy Field installation kits and parts for CH loadcentres and circuit breakers

Description	Ordering quantity [a]	Catalogue number
Handle lockoff (escutcheon mounted). Single- or two-pole Type CH circuit breakers.	1	**CHPL**
Handle lockoff (escutcheon mounted). Single- or two-pole Type CHGFI circuit breakers.	1	**CHPLGF**
Handle lockoff (escutcheon mounted). Locks the handle of main circuit breaker type CSR and BWH in the OFF of ON position.	1	**MCBPL**
Handle lockdog (handle mounted). Single-pole Type CH circuit breakers. Secures handle in the ON or OFF position.	1	**CHLO**
Subfeed kit for 125 A loadcentres. Requires two 3/4-inch (19.1 mm) spaces.	1	**CHSF2125**
3/4-inch (19.1 mm) filler plate kit [a]	1	**CHFP** [a]
Door lock for 24–60 circuit 100 and 200 A (CH)	1	**TDL** [b]
Trim screw kit (CH)	1	**LCCS** [c]
Sandalwood plastic replacement door latch	1	**CHRLS**
Branch circuit numbering strip kit for CH	1	**CHMS** [d]
Electronic breaker lockoff (escutcheon mounted) for type CHFCAF and CHFAFGF		**CHFAFGFLOFF**

[a] Kit includes 25 pieces.
[b] Comes with a set of keys.
[c] Kit includes 25 pieces.
[d] Kit includes 20 pieces.

Definitions

Handle lockoffs: Devices that use a padlock to lock a circuit breaker's handle in either the ON or OFF position.

Handle lockdogs: Devices used to secure a circuit breaker's handle in the ON or OFF 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.

Screw mounted: A permanent mounting to the face of the circuit breaker by means of a non-removable screw.

Combination Service Entrance (main circuit breaker) single and three-phase aluminum bus

Single-phase 120/240 Vac Type 1 (indoor) loadcentres combination service entrance

- CSA certified only (not UL approved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGF circuit breakers as branch circuit breakers

3CBM230

Product selection

Table 36. Single-phase, three-wire 120/240 Vac aluminum bus loadcentres

Maximum ampere rating	Main breaker rating	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	100	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**CBM118** [a]
225	200	18	36	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#4–4/0	**CBM218** [b]
225	200	30	60	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#4–4/0	**CBM230** [b]

[a] BAB2100 main circuit breaker factory installed.
[b] ED2200 main circuit breaker factory installed.

Three-phase Combination service entrance 240 Vac Type 1 (indoor) loadcentres

- CSA certified only (not UL spproved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGF circuit breakers as branch circuit breakers

Table 37. Three-phase, four-wire 240 Vac maximum aluminum bus loadcentres

Maximum ampere rating	Main breaker rating	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	100	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**3CBM118** [a]
125	100	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**3CBM130** [a]
125	100	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**3CBM142** [a]
225	200	18	36	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#4–4/0	**3CBM218** [b]
225	200	30	60	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#4–4/0	**3CBM230** [b]

[a] BAB3100H main circuit breaker factory installed.
[b] ED3200 main circuit breaker factory installed.

Combination (main circuit breaker) single and three-phase copper bus

Single-phase 120/240 Vac Type 1 (indoor) loadcentres combination service entrance

- CSA certified only (not UL approved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGF circuit breakers as branch circuit breakers

Table 38. Single-phase, three-wire 120/240 Vac copper bus loadcentres

Maximum ampere rating	Main breaker rating	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	100	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**CBM118CU** [a]
225	200	18	36	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#4–4/0	**CBM218CU** [b]
225	200	30	60	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#4–4/0	**CBM230CU** [b]

[a] BAB2100 main circuit breaker factory installed.
[b] ED2200 main circuit breaker factory installed.

Three-phase combination service entrance 240 Vac Type 1 (indoor) loadcentres

- CSA certified only (not UL approved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGFT circuit breakers as branch circuit breakers

Table 39. Three-phase, four-wire 240 Vac maximum copper bus loadcentres

Maximum ampere rating	Main breaker rating	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	100	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**3CBM118CU** [a]
125	100	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**3CBM130CU** [a]
125	100	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#8–#1 Cu / #8–1/0 Al	**3CBM142CU** [a]
225	200	30	60	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#4–4/0	**3CBM230CU** [b]

[a] BAB3100H main circuit breaker factory installed.
[b] ED3200 main circuit breaker factory installed.

Non-combination (main lug only) single and three-phase aluminum bus

Single-phase 120/240 Vac Type 1 (indoor) loadcentres

- CSA certified only (not UL approved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGF circuit breakers as branch circuit breakers

CBL130

Table 40. ingle-phase, three-wire 120/240 Vac aluminum bus loadcentres

Maximum ampere rating	Max. no. 1-inch spaces	Max. no. 1-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL118**
125	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL130**
125	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL142**
225	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL218**
225	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL230**
225	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL242**

Three-phase 240 Vac Type 1 (indoor) loadcentres

- CSA certified only (not UL approved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGF circuit breakers as branch circuit breakers

Table 41. Three-phase, four-wire 240 Vac aluminum bus loadcentres

Maximum ampere rating	Max. no. 1-inch spaces	Max. no. 1-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL118**
125	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL130**
125	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL142**
225	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL218**
225	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL230**
225	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL242**

Non-combination (main lug only) single and three-phase copper bus

Single-phase 120/240 Vac Type 1 (indoor) loadcentres

- CSA certified only (not UL approved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGF circuit breakers as branch circuit breakers

Table 42. Single-phase, three-wire 120/240 Vac copper bus loadcentres

Maximum ampere rating	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL118CU**
125	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL130CU**
125	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL142CU**
225	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL218CU**
225	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL230CU**
225	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**CBL242CU**

Three-phase 240 Vac Type 1 (indoor) loadcentres

- CSA certified only (not UL approved)
- Utilize Type BAB, QBHW, QBA, DNBA, or QBGF circuit breakers as branch circuit breakers

Table 43. Three-phase, four-wire 240 Vac copper bus loadcentres

Maximum ampere rating	Max. no. 1-inch spaces	Max. no. 1/2-inch spaces	Cover style	Dimensions in inches (mm) H	W	D	Wire size range for main Cu/Al	Catalogue number
125	18	36	Flush/surface	27.00 (685.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL118CU**
125	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL130CU**
125	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL142CU**
225	30	60	Flush/surface	34.13 (866.8)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL230CU**
225	42	84	Flush/surface	39.00 (990.6)	14.25 (361.9)	3.75 (95.3)	#6–300 MCM	**3CBL242CU**

Type BAB and QBHW single and multi-pole

Type BAB and QBHW

- 10,000/22,000 A interrupting capacity at 120 Vac, 120/240 Vac, and 240 Vac

Product selection

Table 44. Single and multi-pole bolt-on circuit breakers

Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C) (AWG)	Catalogue number Single-pole, 120/240 Vac		Two-pole, 120/240 Vac		Three-pole, 120/240 Vac	
		10 kAIC	22 kAIC	10 kAIC	22 kAIC	10 kAIC	22 kAIC
10	#14–4	**BAB1010**	**—**	**—**	**—**	**—**	**—**
15	#14–4	**BAB1015**	**QBHW1015**	**BAB2015**	**QBHW2015**	**BAB3015H**	**QBHW3015**
20	#14–4	**BAB1020**	**QBHW1020**	**BAB2020**	**QBHW2020**	**BAB3020H**	**QBHW3020**
25	#14–4	**BAB1025**	**—**	**—**	**—**	**—**	**—**
30	#14–4	**BAB1030**	**QBHW1030**	**BAB2030**	**QBHW2030**	**BAB3030H**	**QBHW3030**
40	#14–4	**BAB1040**	**QBHW1040**	**BAB2040**	**QBHW2040**	**BAB3040H**	**QBHW3040**
50	#14–4	**BAB1050**	**QBHW1050**	**BAB2050**	**QBHW2050**	**BAB3050H**	**QBHW3050**
60	#8–1 Cu, #8–1/0 Al	**BAB1060**	**QBHW1060**	**BAB2060**	**QBHW2060**	**BAB3060H**	**QBHW3060**
70	#8–1 Cu, #8–1/0 Al	**BAB1070**	**QBHW1070**	**BAB2070**	**QBHW2070**	**BAB3070H**	**QBHW3070**
90	#8–1 Cu, #8–1/0 Al	—	—	**BAB2090**	**QBHW2090**	**BAB3090H**	**QBHW3090**
100	#8–1 Cu, #8–1/0 Al	—	—	**BAB2100**	**QBHW2100**	**BAB3100H**	**QBHW3100**
125	#8–1 Cu, #8–1/0 Al	—	—	**BAB2125**	**QBHW2125**	—	—
		Requires one 1-inch (25.4 mm) space		Requires two 1-inch (25.4 mm) spaces		Requires three 1-inch (25.4 mm) spaces	

Type BAB high intensity discharge (HID) rated

- 10,000 A interrupting capacity at 120 Vac, 120/240 Vac, and 240 Vac

Table 45. Single-pole HID rated bolt-on circuit breakers

Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C) (AWG	Catalogue number Single-pole, 120/240 Vac 10 per shelf carton 10 kAIC
15	#14–4	**BAB1015D**
20	#14–4	**BAB1020D**
		Requires one 1-inch (25.4 mm) space

Table 46. Single-pole bolt-on fire alarm breakers

Ampere rating	Configuration	Catalogue number Single-pole, 120/240 Vac 10 per shelf carton 10 kAIC
15	Branch fire alarm	**BABF1015**
20	Branch fire alarm	**BABF1020**
	Compact body breaker	Requires one 1-inch (25.4 mm) space

Type QBA arc fault circuit interrupter and DNBA duplex

Type QBA Arc fault circuit interrupter circuit breakers

- 10,000/22,000 A interrupting capacity at 120 Vac 120/240 Vac, and 240 Vac

Table 47. Single and two-pole bolt-on FIRE-GUARD AFCI circuit breakers

Ampere rating	Configuration	Catalogue number Single-pole 120/240 Vac 10 kAIC	22 kAIC	Wire size range (Cu/Al 60 °C o 75 °C) (AWG)
15	Combination	**QB1015CAF**	**QBH1015CAF**	#14–4
15	Dual With GFCI 5mA	**QB1015AFGF**	**QBH1015AFGF**	#14–4
20	Combination	**QB1020CAF**	**QBH1020CAF**	#14–4
20	Dual With GFCI 5mA	**QB1020AFGF**	**QBH1020AFGF**	#14–4
		Requires one 1-inch (25.4 mm) space	Requires one 1-inch (25.4 mm) space	

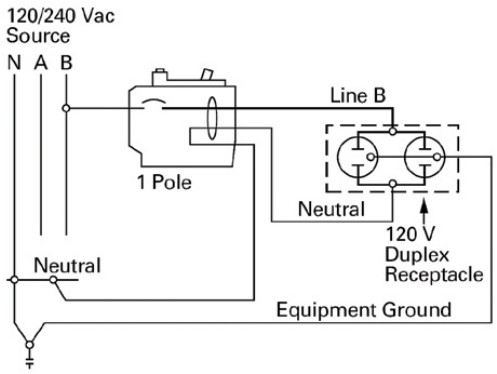
Type DNBA duplex circuit breakers

- 10,000 A interrupting capacity at 120/240 Vac
- Provides 2 single-pole circuits in one 1-inch space

Table 48. Twin plug-in circuit breakers

Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C) (AWG)	Catalogue number Single-pole, 120/240 Vac 10 per shelf carton 10 kAIC
15–15	#14–4	**DNBA1515**
20–20	#14–4	**DNBA2020**
30–30	#14–4	**DNBA3030**
		Requires one 1-inch (25.4 mm) spac

Figure 19. Single-pole, single 120 V load application sourced by 120/240 Vac



Type QBGF and QBGFEP ground fault

Type QBGF and QBGFEP ground fault circuit breakers

- 10,000/22,000 A interrupting capacity at 120 Vac and 120/240 Vac
- 5 mA "people protection" or 30 mA equipment protectors
- Two-pole version features common trip

Table 49. (5 mA) single and two-pole bolt-on ground fault circuit breakers

Ampere rating	Wire size range Cu/Al 60 °C or 75 °C (AWG)	Catalogue number Single-pole, 120 Vac 1 per shelf carton 10 kAIC	Two-pole, 120/240 Vac 1 per shelf carton 10 kAIC
15	#14–10 Cu, #12–10 Al	**QB1015GF**	**QBGFT2015**
20	#14–10 Cu, #12–10 Al	**QB1020GF**	**QBGFT2020**
30	#10 Cu, #8 Al	**QB1030GF**	**QBGFT2030**
40	#8 Cu, #8–6 Al	**QBGFT1040**	**QBGFT2040**
50	#8–6 Cu, #6–4 Al	—	**QBGFT2050**
		Requires one 1-inch (25.4 mm) space	Requires two 1-inch (25.4 mm) spaces

Table 50. (30 mA) single and two-pole bolt-on ground fault circuit breaker equipment protectors

Ampere rating	Wire size range Cu/Al 60 °C or 75 °C (AWG)	Catalogue number Single-pole, 120 Vac 1 per shelf carton 10 kAIC	22 kAIC	Two-pole, 120/240 Vac 1 per shelf carton 10 kAIC	22 kAIC
15	#14–4	**QB1015EP**	**QBH1015EP**	**QBGFEP2015**	**QBHGFEP2015**
20	#14–4	**QB1020EP**	**QBH1020EP**	**QBGFEP2020**	**QBHGFEP2020**
25	#14–4	**QB1025EP**	**QBH1025EP**	**QBGFEP2025**	**QBHGFEP2025**
30	#14–4	**QB1030EP**	**QBH1030EP**	**QBGFEP2030**	**QBHGFEP2030**
		Requires one 1-inch (25.4 mm) space	Requires one 1-inch (25.4 mm) space	Requires two 1-inch (25.4 mm) spaces	Requires two 1-inch (25.4 mm) spaces

Bolt-on accessories

Table 51. Field installation kits and parts for bolt-on loadcentres and circuit breakers

Description	Ordering quantity	Catalogue number
Handle lockoff single-pole of Type DNBA duplex circuit breakers (package of 10)	1	**BRDL1-10**
Handle lockoff Type BAB and QBHW circuit breakers	1	**QL123PL**
Handle lockdog single-pole Type BAB and QBHW circuit breakers	1	**QL1NPL**
Handle lockdog two- and three-pole Type BAB and QBHW circuit breakers	1	**QL23NPL**
Filler plates 1-inch space (package of 24)	1	**BRFP**
Subfeed lug 100 A (for main lug panel style)	1	**CBSF100**
Subfeed lug 225 A (for main lug panel style)	1	**CBSF225**
Subfeed lug kit 100 A three-phase (for main lug panel style)	1	**3CBSF100**
Subfeed lug kit 225 A three-phase (for main lug panel style)	1	**3CBSF225**
Circuit breaker directory card 1–42 (package of 50)	1	**DIRCARD42**
Circuit breaker directory sleeve (package of 25)	1	**DIRSLEEVE**
Loadcentre door lock	1	**TDL**
Isolated ground kit	1	**ISGRD**

Definitions

Handle lockoffs: Devices that use a padlock to lock a circuit breaker's handle in either the ON or OFF position.

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

Spa panels

Product description

Eaton's Spa Panels distribute power to outdoor loads and provide protection for people from electric shock. Save time and money with streamlined installation procedures and easy-access features. Spa panels meet by providing a ground fault circuit interruption device and a disconnect switch in a single simple device. Ships assembled prewired, factory tested and ready to install.

Eaton spa panels are availabe in two types

Type BR

Features

- 10-year warranty
- cUL® Listed
- Factory-installed two pole ground fault circuit interrupter (GFCI)

BR50SPAST

BRSPA40

Type BR two-pole GFCI

Product selection

Catalog number	Main ampere Rating	Enclosure Type	Dimensions in inches	Breaker type (2 pole GFCI)	Wire size range Cu/Al 60°C or 75°C for Main Lugs	# of circuits
BR40SPAST	40	Outdoor	9.75 H x 5.00 W x 4.00 D	BR	#8 - #2	2
BR50SPAST	50	Outdoor	9.75 H x 5.00 W x 4.00 D	BR	#8 - #2	2
BRSPA40	40	Outdoor	11.75Hx 6.75 W x 4.25 D	BR	#14-1/0	4
BRSPA50	50	Outdoor	11.75Hx 6.75 W x 4.25 D	BR	#14-1/0	4
BRSPA60	60	Outdoor	11.75Hx 6.75 W x 4.25 D	BR	#14-1/0	4

Type CH

Features

- Two extra circuits for additional loads
- Limited lifetime warranty
- cUL® Listed
- Tough powder-coated galvanized steel enclosure
- Factory-installed two-pole GFCI

CHSPA60

Type CH two-pole GFCI

Product selection

Catalog number	Main ampere Rating	Enclosure Type	Dimensions in inches	Breaker type (2 pole GFCI)	Wire size range Cu/Al 60°C or 75°C for Main Lugs	# of circuits
CHSPA60	60	Outdoor	11.75 H x 6.75 W x 4.25 D	CH	#14-1/0	2

In-pole

2SL150PCO

Service entrance approved street and roadway lighting panels

- Compact in-pole panel fits into lighting pole hand well
- Pedestal mount 3R (rain-tight) street lighting panels feature aEaton loadcentre housed in a Pencell enclosure

Product description

Since January 1, 2003 the Ontario Electric Safety Code requires that all roadway lighting shall meet the service entrance requirements of Rule 30-1002. Eaton has developed several designs of approved products to suit the various installation points (pole mounted, within an enclosure etc.) . All products are CSA approved.

In-pole street lighting panels

- Service entrance approved
- 3R rain-tight
- Pre-wired
- Single- or two-pole, 22 kA, 50 A versions
- Removable mounting plates accommodate multiple hand wells
- CSA approved
- Approximate dimensions 11.5x 2.4x4 inches
- Line power connections via #6 AWG conductor pigtail
- Load power connections via #14 AWG conductor pigtail
- #6 AWG conductor pigtail provided for daisy chaining ofadditional light poles

Product selection

Table 52. In-pole street lighting panels

Description	Voltage (Vac)	Main circuit breaker	Interrupting (kAIC)	Catalogue number
120 Vac in-pole compact street lighting panel	120	Single-pole 15 A	22	**1SL150PCO**
120 Vac in-pole compact street lightning panel	120	Single-pole 30 A	22	**1SL300PCO**
120 Vac in-pole compact street lighting panel	120	Single-pole 50 A	22	**1SL500PCO**
240 Vac in-pole compact street lighting panel	120/240	Two-pole 15 A	22	**2SL150PCO**
240 Vac in-pole compact street lighting panel	120/240	Two-pole 30 A	22	**2SL300PCO**
240 Vac in-pole compact street lighting panel	120/240	Two-pole 50 A	22	**2SL500PCO**

RCBRPM108M

Combined loadcentre and meter socket

- 4-jaw, 100 A and 200 A, 120/240 V, 22 and 25 kAIC
- Service entrance approved with 100 A or 200 A main circuit breaker included
- Suitable for underground or overhead service entrance
- Field-convertible neutral assembly, if neutral isolation is required
- Includes sub-feed lugs for added flexibility
- Line lugs accommodate #6–250 MCM Cu/Al line conductors and (2) #6–300 MCM Cu/Al neutral conductors
- Load lugs accommodate #2–300 MCM Cu/Al conductors and (2) #6–300 MCM Cu/Al neutral conductors
- Hub opening and plate included; hubs ordered separately.
- CSA approved for copper or aluminium cabling
- Type 3R enclosure

Product selection

Table 53. Combined loadcentre and meter socket

Enclosure	Voltage (V)	Amperage (A)	Interrupting (kAIC)	Entrance type	Branch circuits (1-inch/½-inch)	Dimensions in inches (mm)	Catalogue number
Indoor/outdoor Type 3R	120/240	100	22	Underground/overhead	8/16	34.26 x 17.00 x 5.38 (870.2 x 431.8 x 136.7)	**RCBRPM108M**
Indoor/outdoor Type 3R	120/240	200	25	Underground/overhead	8/16	34.26 x 17.00 x 5.38 (870.2 x 431.8 x 136.7)	**RCBRPM208M**

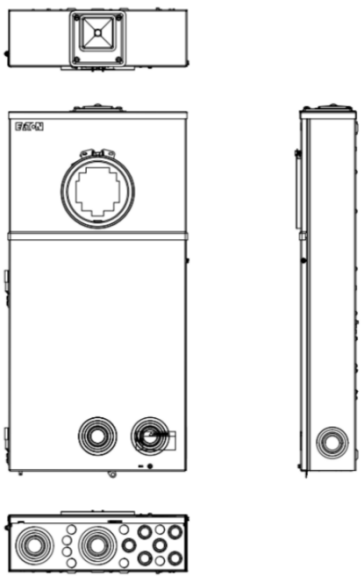


Table 54. Knockout legend

Location	Knockout size in inches (mm)	Quantity
Bottom end wall	1/2"	8
Bottom end wall	1/2", 3/4", 1"	6
Bottom end wall	1", 1-1/4", 1-1/2", 2", 2-1/2", 3"	2
Backplane	1", 1-1/4", 1-1/2", 2", 2-1/2", 3"	2
Right sidewall	1", 1-1/4", 1-1/2", 2", 2-1/2"	1
Top end wall	Provision for Hub	1

Stage 1 and Stage 1 Type 2

Residential surge suppression products

- Stage 1 surge protection as well as Type 1 and Type 2 offering
- Convenient in-panel mount unit for Type BR loadcentres
- Knockout mount or surface mount CHSP design. DIN mount adapter for Type 1
- Limited lifetime warranty on CHSPT2ULTRA
- Dovetail clip together cable surge accessories for CHSPT2 design
- Flush mount kit for CHSPT2 design knockout mounting
- Type 2 surge suppression product designed to meet CSA C22.2 No.269-2 and UL 1449 3rd edition standard, cULus Listed No. N 024005

BRPSURGE

CHSPT2ULTRA

Product description

Today's homes are filled with increasing quantities of devices con- taining sensitive electronic components. These devices can easily be damaged by common power surges also some times called line transients, spikes, or voltage impulses. Lighting strikes, utility grid switching, other users on the powerline, and internal surges from air conditioners and powers tools are the most common sources these damaging line transients. To protect your investment it is recommended that a surge suppression device be installed. Surge protection can be broken into two stages. Stage 1 protection is primary protection for your service entrance. This protection is typically installed inside or adjacent to a home's service entrance distribution panel. Stage 2 protection is secondary protection or protection at the point of use. For proper surge protection both a stage 1 and stage 2 device must be installed. Eaton offers surge products to provide stage 1 protection to your sensitive equipment as well as both Type 1 and Type 2 surge devices that meet the latest CSA C22.2 No. 269 and UL 1449 3rd standard. We also offer surge protection devices for cable/satellite and Ethernet protection since surges are not isolated to the utility lines only.

Product selection

Combination of Surge Protection and Surge/Breaker ProtectionIdeal for applications with limited space in the panel.

BR230SUR
CH230SUR

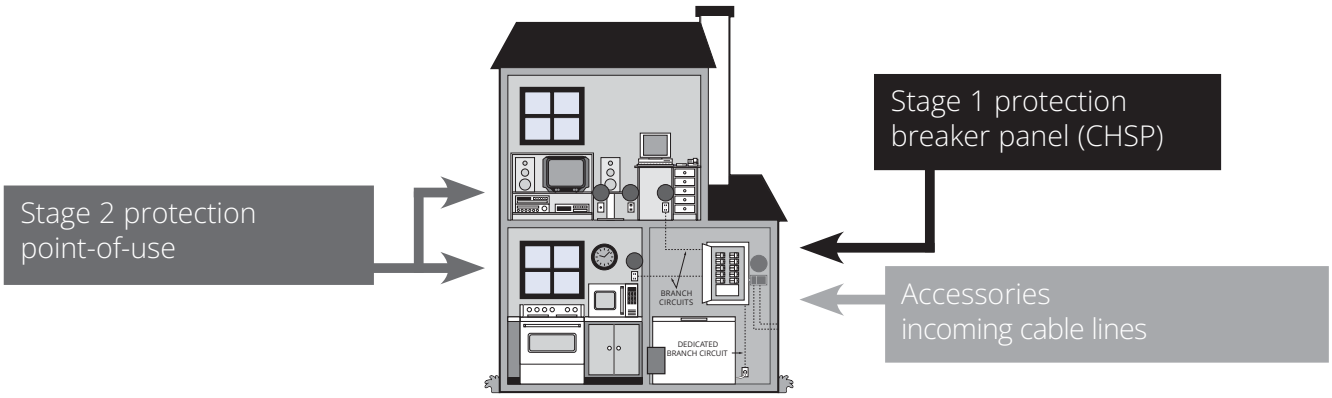


Table 55. Stage 1 Type 2 (point-of-service entrance) residential surge suppression products for Type BR/CH plug-in loadcentres

Connection	Voltage (Vac)	Phase	Frequenc (Hz)	Maximum continuous operating voltage (V) [a]	Voltage protection rating [b]	Nominal discharge current (A) [c]	Short circuit current rating (A) [d]	Surge current capacity per phase (A) [e]	Catalogue number
Plug-on to loadcentre bus in Type BR loadcentres	120/240	Single	50/60	150 Line-to-Neutral (L-N) 300 Line-to-Line (L-L)	600 V L-N 1000 V L-L	3000	10,000	18,000	**BRPSURGE** **Surge only**
Plug-on to loadcentre bus in Type BR loadcentres	120/240	Single	50/60	200 Line-to-Neutral (L-N) 400 Line-to-Line (L-L)	600 V L-N 1000 V L-L	3000	10,000	18,000	**BRNSURGE** **Surge only**
Plug-on to loadcentre bus in Type BR loadcentres	120/240	Single	50/60	150 Line-to-Neutral (L-N) 300 Line-to-Line (L-L)	600 V L-N 1000 V L-L	10,000	10,000	36,000	**BR230SUR** **Surge and Breaker**
Plug-on to loadcentre bus in Type BR loadcentres	120/240	Single	50/60	150 Line-to-Neutral (L-N) 300Line-to-Line (L-L)	600 V L-N 1000 V L-L	10,000	10,000	36,000	**BR250SUR** **Surge and Breaker**
Plug-on to loadcentre bus in Type CH loadcentres	120/240	Single	50/60	150 Line-to-Neutral (L-N) 300 Line-to-Line (L-L)	600 V L-N 1000 V L-L	10,000	10,000	36,000	**CH230SUR** **Surge and Breaker**
Plug-on to loadcentre bus in Type CHloadcentres	120/240	Single	50/60	150 Line-to-Neutral (L-N) 300 Line-to-Line (L-L)	600 V L-N 1000V L-L	10,000	10,000	36,000	**CH250SUR** **Surge and breaker**

[a] Maximum continuous operating voltage that may be applied to the device per mode.

[b] Voltage protection rating is the measured limiting voltage after a surge event.

[c] Nominal discharge current is the current that the device can withstand for 15 impulses.

[d] The amount of current the product can withstand under short circuit conditions.

[e] The maximum one time surge current rating per phase.

Table 56. Stage 1 Type 2 (point-of-service entrance) residential surge suppression products for any loadcentre

Connection	Voltage (Vac)	Phase	Frequenc (Hz)	Maximum continuous operating voltage (V) [a]	Voltage protection rating [b]	Nominal discharge current (A) [c]	Short circuit current rating (A) [d]	Surge current capacity per phase (A) [e]	Catalogue number
Can be attached to the outside of any manufacturer's loadcentre (breaker box). This product should be connected on the load side of the loadcentre main service disconnect through a dedicated circuit breaker (follow CEC guidelines).	120/240	Single	60	150 Line-to-Neutral (L-N) 300 Line-to-Line (L-L)	600VL-N 1000VL-L	5,000	22,000	36,000	**CHSPT2SURGE**
	120/240	Single	60		800VN-G 600VL-G	20,000 f	22,000	108,000	**CHSPT2ULTRA**
	120/240	Single	60			20,000 f	22,000	108,000	**CHSPT22PACK**

[a] Maximum continuous operating voltage that may be applied to the device per mode.

[b] Voltage protection rating is the measured limiting voltage after a surge event.

[c] Nominal discharge current is the current that the device can withstand for 15 impulses.

[d] The amount of current the product can withstand under short circuit conditions.

[e] The maximum one time surge current rating per phase.

[f] When used with a 50 A two-pole breaker, 10 kA when used with a 15 A two-pole breaker.

[g] CHSPT22PACK contains one each of CHSPT2ULTRA, CHSPCABLE.

CHSPCABLE

Table 57. Residential surge suppression accessories

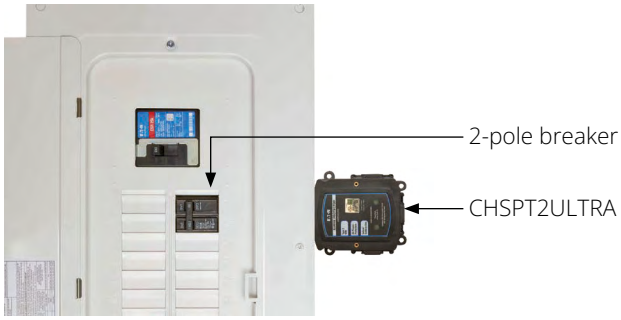
Description	Application	Product warranty	Connected equipment warranty	Maximum surge current (A) [a]	Catalog Number
SurgeCable™	Cable TV, satellite, cable modems (2 lines)	Lifetime	$10,000	20,000	**CHSPCABLE**
Flushmount Kit™	Flush mount kit for finished wall installations	—	N/A	N/A	**CHSPFMKIT**

[a] Maximum surge rating is the sum of all modes of protection.

Installation

CHSP and accessories can be mounted on the side, top, or bottom of a circuit breaker panel.

Note: CHSP SURGE, ULTRA or the 2-pack can be used interchangeably depending on protection required.



2002GF6H

Complete home surge protection

Core Features

- cUL Certified
- Internal and external installation options available
- Clear, visible LED indication displays protective status of device
- Help protect appliances, TVs, sensitive electronic equipment, smart home devices and more
- Limited product warranty and the industry's best connected equipment warranty

Product description

Eaton offers a comprehensive **family of surge products** for use at service entrances. These **products can help protect** sensitive electronics against the damaging effects of surges. Due to the evolution of electronics and microprocessors in the home, there is a continuous challenge to provide quality (clean) power for electronic loads such as appliances, computers/home office and entertainment systems. Surges caused by lightning, utility grid switching and other sources travel on current carrying conductors throughout the home, which can affect and destroy sensitive electronic loads.

BRNSURGE10

Eaton type BR Circuit Breaker surge protective device, two pole, pigtailz neutral surge protective device, 10 KA

General specifications	
Product name	Eaton Type BR plug on module surge protection device
Catalog number	BRNSURGE10
UPC	786689880828
Product length/depth	3.6 in
Product height	2.25 in
Product width	3.5 in
Product weight	0.418 lb
Certifications	UL 1449 cUL Certified
Product type	Plug on module surge protection device

Product specifications	
Frequency rating	50/60 Hz
Interrupt rating	10 kAIC
Nominal discharge current	10 kA
Protection	L-N, L-L
Maximum continuous operating voltage	150 V L-N, 300 V L-L
Surge current	20 kA
Short-circuit rating	10 kA
Type	TYPE BR

BRPSURGE10

Eaton type BR Circuit Breaker surge protective device, two pole, Plug-on neutral surge protective device, 10 KA

General specifications	
Product name	Eaton Type BR plug on module surge protection device
Catalog number	BRPSURGE10
UPC	786689880804
Product length/depth	3.6 in
Product height	2.4 in
Product width	3.5 in
Product weight	0.408 lb
Certifications	cUL Certified UL 1449
Product type	Plug on module surge protection device

Product specifications	
Frequency rating	50/60 Hz
Interrupt rating	10 kAIC
Nominal discharge current	10 kA
Protection	L-N, L-L
Maximum continuous operating voltage	150 V L-N, 300 V L-L
Surge current	20 kA
Short-circuit rating	10 kA
Type	TYPE BR

CHSPT2SURGE10

EATON SPD type 2 CHSP Service Entrance Surge Protection, 120/240V LINE, 1 S0V L-N, 300V L-L MCOV, 700V L-N, 1200V L- L, 900V N-G, 700V L-G VPR, 22 KA SCCR, NEMA 4, Single-phase, 60 HZ, 10 KA nominal current discharge, 60 KA surge current

General specifications	
Product name	Eaton CHSPT2 surge protection device
Catalog number	CHSPT2SURGE10
UPC	786689860523
Product length/depth	7.5 in
Product height	2 in
Product width	5 in
Product weight	0.01 lb
Certifications	UL Recognized UL 1449 cUL Certified
Catalog notes	10KA nominal discharge current. Has 60KA one time surge current rating.
Product type	Surge protection device

Product specifications	
Frequency rating	60 Hz
Interrupt rating	200 kAIC
Nominal Discharge Current	10 kA
Operating voltage	150V L-N, 300V L-L
Protection	700V L-N, 1200V L-L, 900V N-G, 700V L-G
Enclosure	NEMA 4
Phase	Single-phase
Surge current	60 kA
Short-circuit rating	22000 kA
Operating temperature	-40 to 50 ºC
Type	Surge protection device
Special features	Meets or exceeds the requirments specified in ibc 2006, cbc2007, and ubc®zone 4

CHSPT2ULTRA

Eaton SPD Type 2 CHSP Service Entrance Surge Protection, 120/240V line, 150V L-N, 300V L-L MCOV, 600V L-N, 1000V L-L, 800V N-G, 600V L-G VPR, 22 kA SCCR, NEMA 4, Single-phase, 60 Hz, 20 kA nominal current discharge, 108 kA surge current

General specifications	
Product name	Eaton CHSPT2 surge protection device
Catalog number	CHSPT2ULTRA
UPC	786685436883
Product length/depth	7 in
Product height	2.5 in
Product width	5 in
Product weight	1 lb
Warranty	Limited lifetime
Certifications	cUL Certified UL 1449 UL Recognized
Product type	Surge protection device

Product specifications	
Frequency rating	60 Hz
Interrupt rating	200 kAIC
Nominal Discharge Current	20 kA
Operating voltage	150V L-N, 300V L-L
Protection	600V L-N, 1000V L-L, 800V N-G, 600V L-G
Voltage rating	120/140 V
Enclosure	NEMA 4
Phase	Single-phase
Surge current	108 kA
Short-circuit rating	22000 kA
Operating temperature	-40 to 50
Type	Surge protection device
Special features	Meets or exceeds the requirments specified in IBC ®2006, CBC2007, and UBC®Zone 4

Residential automatic transfer switches

Product description

A transfer switch panel is a device that is mounted next to or incorporated within the loadcentre (distribution panel) in the home or small business. The transfer switch panel is used in conjunction with an emergency generator (usually supplied by others) and serves the purpose of turning selected circuits on and off during a power outage. The transfer switch panel allows the owner to start up a generator and then restore power to critical circuits when utility power is not available.

The owner designates which circuits are critical such as their refrigerator, furnace, and certain lighting loads. Sometimes called emergency power panels, emergency generator panels, gen. panels, transfer switches or emergency panels; transfer switch panels provide the homeowner or small business owner with a safe and easy way to continue using essential electrical loads when utility power is not available.

Application description

Transfer switch panels are most often used in residential, agricultural and light commercial applications. Comfort and safety are key concerns of many homeowners who are dependent on an uninterrupted supply of electricity.

The increase in our dependence on power is due in part to the popularity of home business and in-home care. In addition, various rural and urban regions in North America experience periodic power outages due to extreme weather conditions such as ice and snowstorms, heat waves, tornadoes or hurricanes. Regions such as Pacific, Atlantic, and Central are the strongest markets for portable generators and transfer switch panels.

Features, functions, and benefits

Eaton offers two unique manual transfer switch emergency power solutions.

- Manual transfer switches or a generator sub-panel
- Combination service entrance loadcentre with generator sub-panel

IMPORTANT

BEFORE INSTALLATION, CONSULT APPROPRIATE ELECTRICAL CODES.
INSTALLATION INFORMATION IS INCLUDED IN THE CARTON.

Manual transfer switches/generator panels

- Main utility and emergency (generator) breaker factory installed
- Available in 30 and 60 A design
- Utility breaker and generator breakers are mechanically interlocked to protect equipment and personnel by preventing dangerous dual-source feeding
- Critical loads permanently connected to allow for quick and convenient switching from utility power to stand-by generator power
- Designed for switched neutral applications. Can be reconfigured in field for non-switched neutral applications
- Sturdy and reliable 125 A rated aluminum bus design
- Type BR/DNPL branch breakers sold separately
- Ideal for new and retrofit installations
- EEMAC 1 indoor enclosure design

Standards and certifications

- CSA approved

Product specifications

- 10,000 AIC rating
- Switching devices must be circuit breakers
- Transfer switch panel must be supplied with neutral and ground

Combination service entrance loadcentre generator panel CBRPM236GEN

- Single enclosure (EEMAC 1) to house both loadcentre and generator breakers
- Factory installed main breakers
- Available in 200 A designs
- Utility and emergency transfer switch breaker factory installed
- Utility breaker and generator breakers are mechanically interlocked to protect equipment and personnel by preventing dangerous dual-source feeding
- Critical loads permanently connected to allow for quick and convenient switching from utility power to stand-by generator power
- Designed for switched neutral applications. Can be reconfigured in field for non-switched neutral applications
- Type BR/DNPL branch breakers sold separately
- Ideal for new and retrofit installations
- EEMAC 1 indoor enclosure design

Standards and certifications

- CSA approved

Product specifications

- 25,000 AIC rating for CBRPM236GEN
- Switching devices must be circuit breakers
- Transfer switch panel must be supplied with neutral and ground

CBRPL112G3

CBRPM236GEN

Product selection

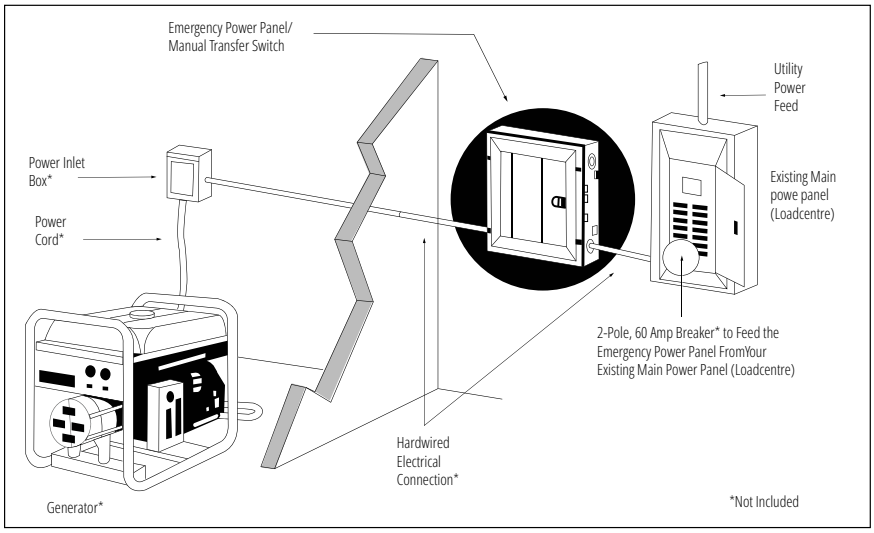
Table 58. Manual transfer switches/generator panels

Bus rating (A)	Generator breaker (A)	Switched neutral	Enclosure rating	Max. total branch circuits (1-inch/½-inch)	Inlet receptacle type	Height branch circuits in inches (mm)	Width in inches (mm)	Depth in inches (mm)	Catalogue number
125	30	Yes	EEMAC 1	6/12	—	16.75 (425.5)	14.38 (365.1)	3.88 (98.4)	**CBRPL112G3**
125	60	Yes	EEMAC 1	6/12	—	16.75 (425.5)	14.38 (365.1)	3.88 (98.4)	**CBRPL112G6**
125	60	Yes	EEMAC 1	14/28	—	21.00 (533.4)	14.38 (365.1)	3.88 (98.4)	**CBRPL120G6**
125	60	Yes	EEMAC 1	24/48	—	29.13 (739.8)	14.38 (365.1)	3.88 (98.4)	**CBRPL130G6**

Table 59. Combination service entrance loadcentre generator panel

Bus rating (A)	Loadcentre main breaker (A)	Max. total branch circuits (1-inch/½-inch)	Generator breaker (A)	Switched neutral	Max. generator branch circuits	Height in inches (mm)	Width in inches (mm)	Depth in inches (mm)	Catalogue number
200	200	36/72	60	Yes	6/12	49.00 (1244.6)	14.38 (365.1)	3.88 (98.4)	**CBRPM236GEN**

Figure 21. Typical installation diagram



Notes:

- Combination service entrance loadcentre generator panels come complete with an integrated emergency generator panel
- Combination service entrance loadcentre generator panels come complete with factory installed utility feeder breaker for emergency generator panel section

EGSX100A and EGSX200A

Product description

All the below switches are "utility sense" type of switches and automatically transfer to the appropriate source of power when signalled from the generator. 100 and 200 ampere (A) switches are capable of 'whole house' power transfer 50, 100, and 200 Ampere Automatic Transfer Switches in residential/ small business applications. 100 and 200A switches can also be used in conjunction with a sub-panel where switching of critical loads is desired. The 50 and 100A combination critical load panel and transfer switch models provide a clean and convenient single enclosure solution for critical load applications. The 12 or 24 circuit loadcentre incorporated into these models utilize the 3/4" width Type CH circuit breakers.

Standards and certifications

CSA approved

Product selection

Table 60. Residential automatic transfer switches

Description	Catalogue number			
	EGSX50L12R [f]	**EGSX100L24RA** [f]	**EGSX100A** [f]	**EGSX200A** [f]
Voltage (V)	120/240	120/240	120/240	120/240
Circuits	12 [e]	24 [e]	Whole house or essential loads	Whole house or essential loads
Amperes (A)	50	100	100	200
Poles	2	2	2	2
Frequency (Hz)	50/60	50/60	50/60	50/60
CSA Listed	Yes	Yes	Yes	Yes
Withstand Rating (AIC)	5,000	10,000 [b]	10,000 [c]	10,000 [d]
Switch Type	Electrically held contactor	Electrically held contactor	Electrically held contactor	Electrically held contactor
Enclosure [a]	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Depth (Inches / mm)	5 / 127	5.32 / 135.13	5.32 / 135.13	5.32/ 133.35
Width (Inches / mm)	14.25 / 361.95	14.46 / 367.28	14.46 / 367.28	14.46 / 367.28
Height (Inches / mm)	21 / 533.40	29.33 / 744.98	16.87 / 428.50	25.08 / 637.03
Weight (lbs / kg)	30.7 / 13.92	38 / 17.24	35 / 15.88	40 / 18.14
Breaker Packs Available	CHGENPAK12R -	Contains Qty 4 CHF115, Qty 1 CHF220 and qty 1 CHF240		
	CHGENPAK24R -	Contains Qty 8 CHF115, Qty 1 CHF220 and qty 1 CHF240		

Notes:

[a] Can be used for Indoor applications

[b] When protected by one of the following circuit breakers rated not more than 150 amperes (Eaton/Cutler-Hammer BR, CH, FDC, CSR, CSH, BW, BWH; Siemens CED6,ED6, ED4, HED6, HED4), the withstand rating can go up to 25000A

[c] When protected by one of the following circuit breakers rated not more than 150 amperes (Eaton/Cutler-Hammer BR, CH, FDC, CSR, CSH, BW, BWH; Siemens CED6, ED6, ED4, HED6, HED4), the withstand rating can go up to 22000A

[d] When protected by one of the following circuit breakers rated not more than 400 amperes. (Eaton/Cutler-Hammer DK, KD, KDB, HKD, JDC, KDC, LCL, LA, JDB, JD, HJD, CSR, BW, BWH, FD, FDC; Siemens FD6-A, FXD6-A, HFD6, CFD6; Square D KI, LE, LX, LXI; General Electric SF, SFL, SFP), the withstand rating can go up to 25000A

[e] Utilize the 3/4" width Type CH Circuit breakers found in the Residential Distribution Products Guide.

[f] Standard ATS Series compatible with Generac generators only

Figure 25. EGSX50L12R 50A

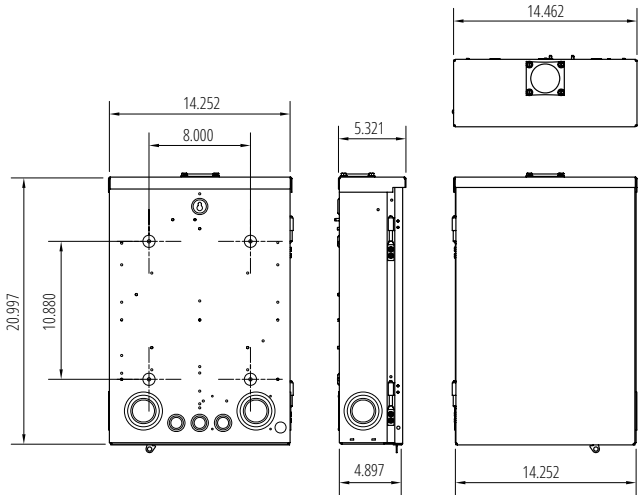


Figure 26. EGSX100L24RA

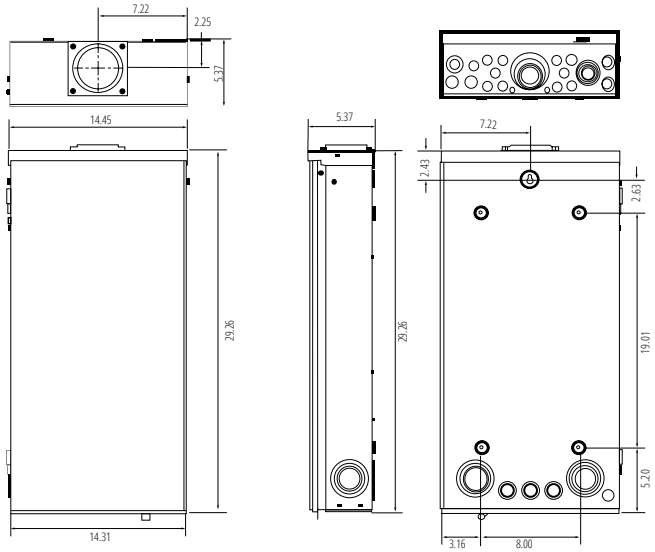


Figure 27. EGSX100A 100A

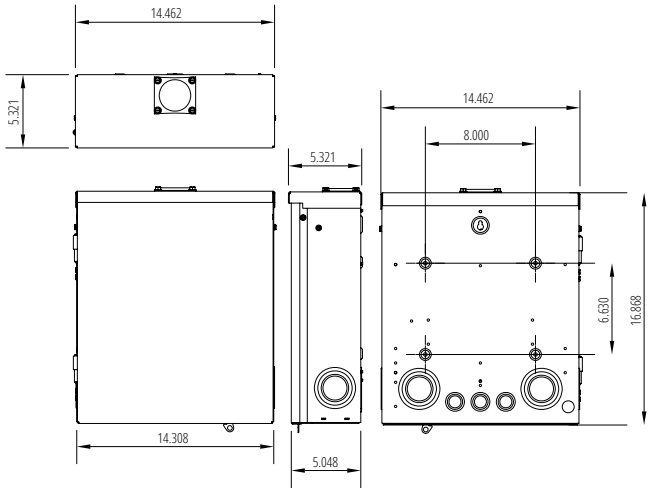
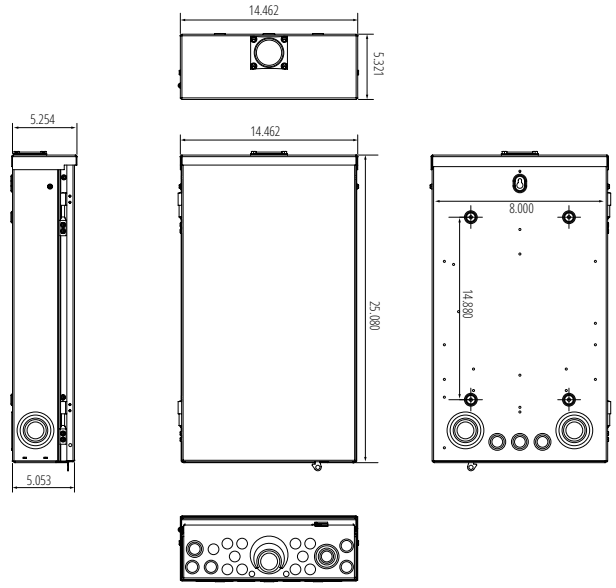


Figure 28. EGSX200A



Service entrance residential automatic transfer switch quick reference guide

Catalog number	Type	Controller	Voltage	Amperage	Withstand Rating (AIC)	Generator compatibility	Meter socket Amperage
EGSC100ASE	BASIC	Relay based	120/240	100	10000	Utility Sense generators only	
EGSC200ASE	BASIC	Relay based	120/240	200	10000	Utility Sense generators only	
EGSCA100ASE	ADVANCED	RTC-100	120/240	100	10000	Two Wire Start type generators or Utility Sense generators	
EGSCA200ASE	ADVANCED	RTC-100	120/240	200	10000	Two Wire Start type generators or Utility Sense generators	
EGSC400ASE	BASIC	Relay based	120/240	400	35000	Utility Sense generators only	
EGSCA400ASE	ADVANCED	RTC-100	120/240	400	35000	Two Wire Start type generators or Utility Sense generators	
EGS100AMSE	ADVANCED	ATC-100	120/240	100	10000	Two Wire Start type generators or Utility Sense generators using EGSUSKIT (sold separately)	200A
EGS200AMSE	ADVANCED	ATC-100	120/240	200	10000	Two Wire Start type generators or Utility Sense generators using EGSUSKIT (sold separately)	200A
EGSC100AMSE	BASIC	Relay based	120/240	100	10000	Utility Sense generators only	200A
EGSC200AMSE	BASIC	Relay based	120/240	200	10000	Utility Sense generators only	200A
EGS100AMSECLX	ADVANCED	ATC-100	120/240	100	10000	Two Wire Start type generators or Utility Sense generators using EGSUSKIT (sold separately)	200A
EGS200AMSECLX	ADVANCED	ATC-100	120/240	200	10000	Two Wire Start type generators or Utility Sense generators using EGSUSKIT (sold separately)	200A
EGSC100AMSECLX	BASIC	Relay based	120/240	100	10000	Utility Sense generators only	200A
EGSC200AMSECLX	BASIC	Relay based	120/240	200	10000	Utility Sense generators only	200A

EGSCA200ASE (Cover removed)

Product description

Our Service Entrance (SE) Rated switches combine the SE Disconnect and ATS in one convenient enclosure. They are available in two styles: Basic (EGSC line) and Advanced (EGSCA line). The Basic line relies on the utility sense generator to monitor utility and generator voltages and will automatically transfer to the appropriate source of power when signaled from the generator. The Advanced line of switches is compatible with both utility sense and two wire start type generators. When paired with two wire start type generators, the built-in control board (RTC-100) monitors utility and generator voltages and initiates the transfer to the appropriate source of power. They also feature LED position indicators and source availability indicators. The Advanced units have the load management capabilities of the RTC-100 control board.

Standards and certifications

CSA approved

Product specifications

- 10,000 Symetrical Amperes withstand rating
- 120/240 VAC 60Hz 2-pole
- -20°C to +40°C (-4°F to +104°F) Operating temperature

Product selection

Table 61. 100 and 200 Ampere SE Residential automatic transfer switches

Description	Catalogue number			
	EGSC100ASE [c]	EGSC200ASE [c]	EGSCA100ASE	EGSCA200ASE
Type	Basic - relay	Basic - relay	Advanced - RTC100	Advanced - RTC100
Voltage (V)	120/240	120/240	120/240	120/240
Circuits	Whole house or essential loads	Whole house or essential loads	Whole house or essential loads	Whole house or essential loads
Amperes (A)	100	200	100	200
Poles	2	2	2	2
Frequency (Hz)	50/60	50/60	50/60	50/60
CSA listed	Yes	Yes	Yes	Yes
Withstand rating (AIC)	10,000	10,000	10,000	10,000
Switch type	Mechanically held contactor	Mechanically held contactor	Mechanically held contactor	Mechanically held contactor
Enclosure a b	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Depth (Inches / mm)	5.32 / 135.13	5.32 / 135.13	5.32 / 135.13	5.32 / 135.13
Width (Inches / mm)	14.46 / 367.28	14.46 / 367.28	14.46 / 367.28	14.46 / 367.28
Height (Inches / mm)	29.33 / 744.98	29.33 / 744.98	29.33 / 744.98	29.33 / 744.98
Weight (lbs / kg)	29.33/744.98	29.33/744.98	29.33/744.98	29.33/744.98

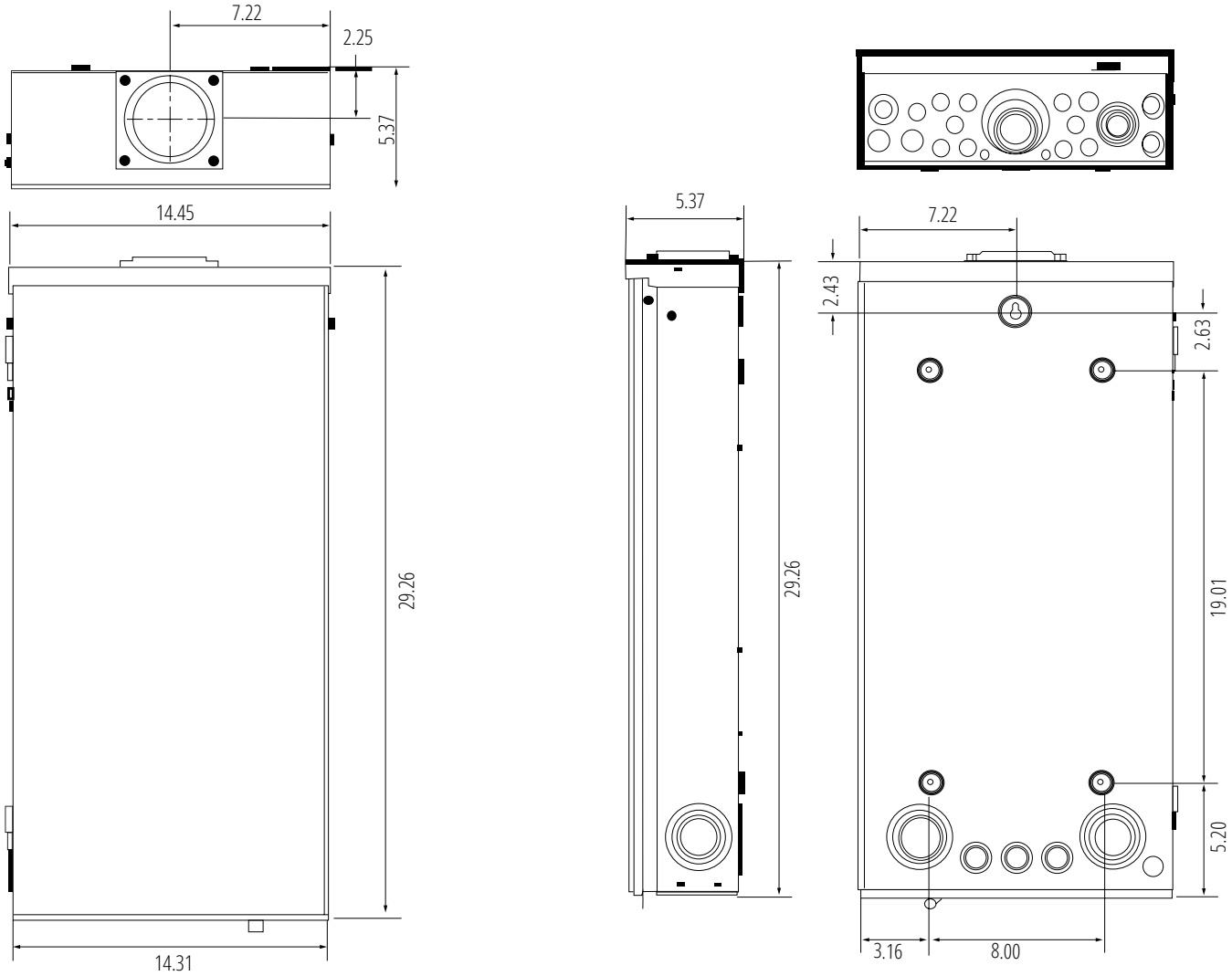
Notes:

[a] Can be used for indoor applications

[b] These products use the DS***H2 style hubs. Please refer to Table 7 on Page 13

[c] Standard ATS Series compatible with Generac generators only

Figure 29. EGSC100ASE, EGSC200ASE, EGSCA100ASE and EGSCA200ASE



EGSCA400ASE (Cover removed)

Product description

Our Service Entrance (SE) Rated switches combine the SE Disconnect and ATS in one convenient enclosure. They are available in two styles: Basic (EGSC line) and Advanced (EGSCA line). The Basic line relies on the utility sense generator to monitor utility and generator voltages and will automatically transfer to the appropriate source of power when signaled from the generator. The Advanced line of switches is compatible with both utility sense and two wire start type generators. When paired with two wire start type generators, the built-in control board (RTC-100) monitors utility and generator voltages and initiates the transfer to the appropriate source of power. They also feature LED position indicators and source availability indicators. The Advanced units have the load management capabilities of the RTC-100 control board.

Standards and certifications

CSA approved

Product specifications

- 35,000 Symetrical Amperes withstand rating
- 120/240 VAC 60Hz 2-pole
- -20°C to +40°C (-40°F to +104°F)

Operating temperature when used with optional heater kit HEATKIT400

- -40°C to +40°C (-40°F to +104°F)

Product selection

Table 62. 400 Ampere SE Residential Automatic Transfer Switches

Description	Catalogue number	
	EGSC400ASE[c]	**EGSCA400ASE**
Type	Basic - relay	Advanced - RTC100
Voltage (V)	120/240	120/240
Amperes (A)	400	400
Poles	2	2
Frequency (Hz)	50/60	50/60
CSA listed	Yes	Yes
Withstand rating (AIC)	35,000	35,000
Switch type	Mechanically held contactor	Mechanically held contactor
Enclosure a b	Type 3R (outdoor)	Type 3R (outdoor)
Depth (Inches / mm)	11.14 / 283	11.14 / 283
Width (Inches / mm)	26.5 / 673	26.5 / 673
Height (Inches / mm)	45.11 / 1146	45.11 / 1146
Weight (lbs / kg)	156 / 71	156 / 71
Options available	HEATKIT400 Heater and thermostat kit	HEATKIT400 Heater and thermostat kit
		CS400 Current sensors to use load management

Notes:

[a] Can be used for indoor applications

[b] These products use the DS***H2 style hubs. Please refer to Table 7 on Page 13

[c] Standard ATS Series compatible with Generac generators only

Figure 30. EGSC400ASE

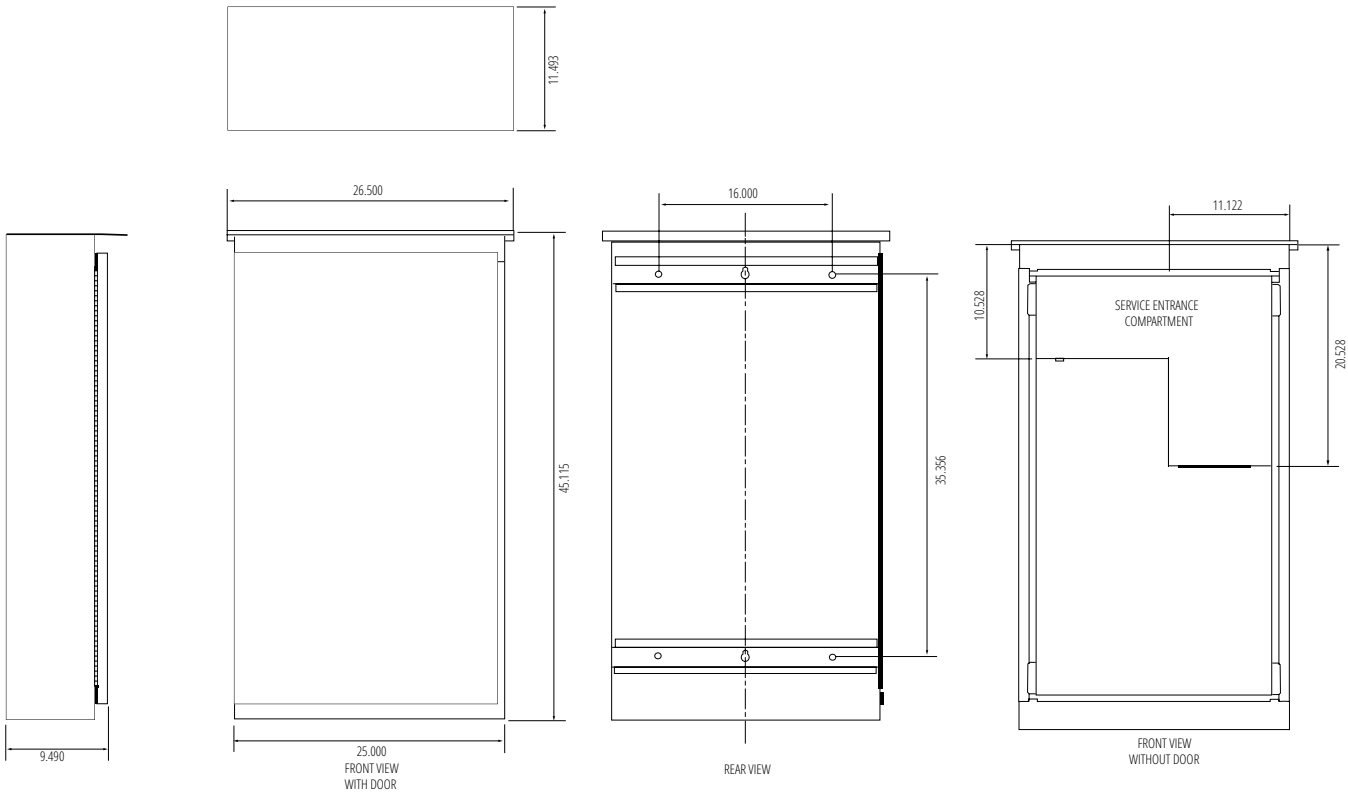


Table 63. Transfer switch conduit hub selection

Catalogue number	Description	Transfer switch application
DS075H1	3/4" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS100H1	1" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS125H1	1-1/4" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS150H1	1-1/2" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS200H1	2" Conduit Hub	EGSX50L12R, EGSX100L24RA, and EGSX100A
DS100H2	1" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS125H2	1-1/4" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS150H2	1-1/2" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS200H2	2" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS250H2	2-1/2" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line
DS300H2	3" Conduit Hub	EGSX200A, EGSC Line and EGSCA Line

Figure 31. Switched neutral metered manual transfer switch knockout locations

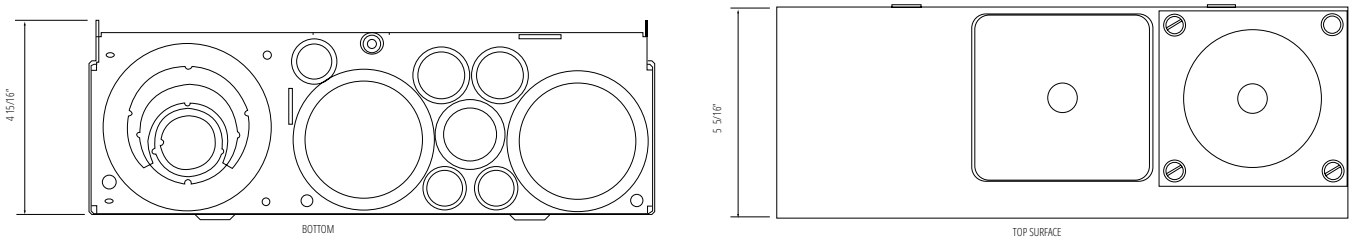


Table 64. Switched neutral metered manual transfer switch knockout locations and sizes

Location	Knockout size (Inches (mm))	Quantity
Bottom	.31 (7.9)	3
Bottom	.50 (12.7)	3
Bottom	.50 . .75 (12.7, 19.1)	2
Bottom	.75, 1.00 (12.7, 25.4)	1
Bottom	1.25, 1.50, 2.00, 2.50 (31.8, 38.1, 50.8, 63.5)	2
Bottom	1.50, 2.00, 2.50, 3.00 (38.1, 50.8, 63.5, 76.2)	1
Top endwall	Provision for hub (e.g. DS200H2, DS250H2, DS300H2)	2
Backplane	1.00, 1.25, 1.50, 2.00, 2.50 (25.4, 31.8, 38.1, 50.8, 63.5)	2
Right sidewall	1.00, 1.25, 1.50, 2.00, 2.50 (25.4, 31.8, 38.1, 50.8, 63.5)	1
Left sidewall	1.00, 1.25, 1.50, 2.00, 2.50 (25.4, 31.8, 38.1, 50.8, 63.5)	1

EGS200AMSE (Cover removed)

Metered service entrance rated automatic transfer switch engine start type

Product description

Combined in a single enclosure and factory wired is a 200A meter socket, service entrance rated circuit breaker disconnect, and an automatic transfer switch (ATS). The single enclosure assembly saves the installing contractor time and money while leaving the home owner with a cleaner and more attractive installation on the outside of their home.

Designed to work with standby generators that use a two wire start signal configuration. To use with utility sense generators, purchase and install the EGSUSKIT (sold separately).

Application description

- New or retrofit residential standby generator installations
- Farm or rural properties

Features, functions, and benefits

- Combined functionality in a single enclosure.
- Saves installation time and cost
- Service entrance approved for Canada
- 100 and 200A models
- Overhead and underground service entrance
- NEMA 3R indoor/outdoor enclosure
- Mechanically and electrically interlocked contactor assembly
- 200A Meter socket
- Factory wired circuit breaker service disconnect
- Generator start signal terminal strip
- 1-Pole 15A Generator accessory circuit breaker
- ATC-100 Controller

Product specifications

- 10,000 Symetrical Amperes withstand rating
- 120/240 VAC 60Hz 2-pole
- -20°C to +40°C (-4°F to +104°F) Operating temperature

Product selection

Table 65. Metered service entrance rated automatic transfer switches

Description	Catalogue number			
	EGS100AMSE	**EGS100AMSECLX**	**EGS200AMSE**	**EGS200AMSECLX**
Voltage (V)	120/240	120/240	120/240	120/240
Withstand rating (Symetrical amperes at 240VAC maximum)	10,000	10,000	10,000	10,000
Amperage (A)	100	100	200	200
Poles	2	2	2	2
Frequency (Hz)	60	60	60	60
Meter socket amperage (A)	200 TUNNEL type	200 STUD type	200 TUNNEL type	200 STUD type
Service entrance disconnect means	Type BWH/CSR circuit breaker	Type BWH/CSR circuit breaker	Type BWH/CSR Circuit Breaker	Type BWH/CSR Circuit Breaker
Service entrance disconnect amperage (A)	100	100	200	200
Transfer switch type	Mechanically and electrically interlocked contactor	Mechanically and electrically interlocked contactor	Mechanically and electrically interlocked contactor	Mechanically and electrically interlocked contactor
Contactor amperage (A)	100	100	200	200
Switched neutral	No	No	No	No
Controller	ATC-100	ATC-100	ATC-100	ATC-100
Generator application	Two wire start signal generators	Two wire start signal generators	Two wire start signal generators	Two wire start signal generators
Accessory circuit breaker	1-pole 15A	1-pole 15A	1-pole 15A	1-pole 15A
CSA listed	Yes	Yes	Yes	Yes
Enclosure [a]	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Height (Inches / mm)	36.19 / 919	42.19/1072	36.19 / 919	42.19/1072
Width (Inches / mm)	18.04 / 458	18.04 / 458	18.04 / 458	18.04 / 458
Depth (Inches / mm)	7.25 / 184	7.25 / 184	7.25 / 184	7.25 / 184
Weight (lbs/kg)	64 / 29.03	64 / 29.03	66 / 29.94	66 / 29.94

Notes:

[a] This product uses the 2 -1/2" conduit hub openings, ex: H2. Please refer to Table 7 on Page 13

EGSC100AMSE (Covers removed)

Metered service entrance rated automatic transfer switch utility sense type

Product description

Combined in a single enclosure and factory wired is a 200A meter socket, service entrance rated circuit breaker disconnect, and an automatic transfer switch (ATS). The single enclosure assembly saves the installing contractor time and money while leaving the home owner with a cleaner and more attractive installation on the outside of their home.

Designed to work with standby generators that use a "utility sense" configuration and transfer signal from the generator

Application description

- New or retrofit residential standby generator installations
- Farm or rural properties

Features, functions, and benefits

- Combined functionality in a single enclosure
- Saves installation time and cost
- Service entrance approved for Canada
- 100 and 200 Ampere models
- Overhead and underground service entrance
- NEMA 3R indoor/outdoor enclosure
- Mechanically and electrically interlocked contactor assembly
- 200A Meter socket
- Factory wired N1 and N2 fuse block
- LED contactor position and Utility/GEN available indicators

Product specifications

- 10,000 Symetrical Amperes withstand rating
- 120/240 VAC 60Hz 2-pole
- -20°C to +40°C (-4°F to +104°F) Operating temperature

Product selection

Table 66. Metered Service Entrance Rated Automatic Transfer Switches

Description	Catalogue number			
	EGSC100AMSE [b]	**EGSC100AMSECLX** [b]	**EGSC200AMSE** [b]	**EGSC200AMSECLX** [b]
Voltage (V)	120/240	120/240	120/240	120/240
Withstand rating (Symetrical amperes at 240VAC maximum)	10,000	10,000	10,000	10,000
Amperage (A)	100	100	200	200
Poles	2	2	2	2
Frequency (Hz)	60	60	60	60
Meter socket amperage (A)	200 TUNNEL Type	200 STUD Type	200 TUNNEL Type	200 STUD Type
Service entrance disconnect means	Type BWH/CSR circuit breaker	Type BWH/CSR circuit breaker	Type BWH/CSR circuit breaker	Type BWH/CSR circuit breaker
Service entrance disconnect amperage (A)	100	100	200	200
Transfer switch type	Mechanically and electrically interlocked contactor	Mechanically and electrically interlocked contactor	Mechanically and electrically interlocked contactor	Mechanically and electrically interlocked contactor
Contactor amperage (A)	100	100	200	200
Switched neutral	No	No	No	No
Controller	RELAY	RELAY	RELAY	RELAY
Generator application	UTILITY SENSE generators	UTILITY SENSE generators	UTILITY SENSE generators	UTILITY SENSE generators
CSA listed	Yes	Yes	Yes	Yes
Enclosure [a]	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Height (Inches / mm)	36.19 / 919	42.19/1072	36.19 / 919	42.19/1072
Width (Inches / mm)	18.04 / 458	18.04 / 458	18.04 / 458	18.04 / 458
Depth (Inches / mm)	7.25 / 184	7.25 / 184	7.25 / 184	7.25 / 184
Weight (lbs/kg)	64 / 29.03	64 / 29.03	66 / 29.94	66 / 29.94

Notes:

[a] This product uses the 2 -1/2" conduit hub openings, ex: H2

[b] Standard ATS Series compatible with Generac generators only

Metered service entrance rated automatic transfer switches

Figure 32. Metered Service Entrance Rated Automatic Transfer Switch Dimensions

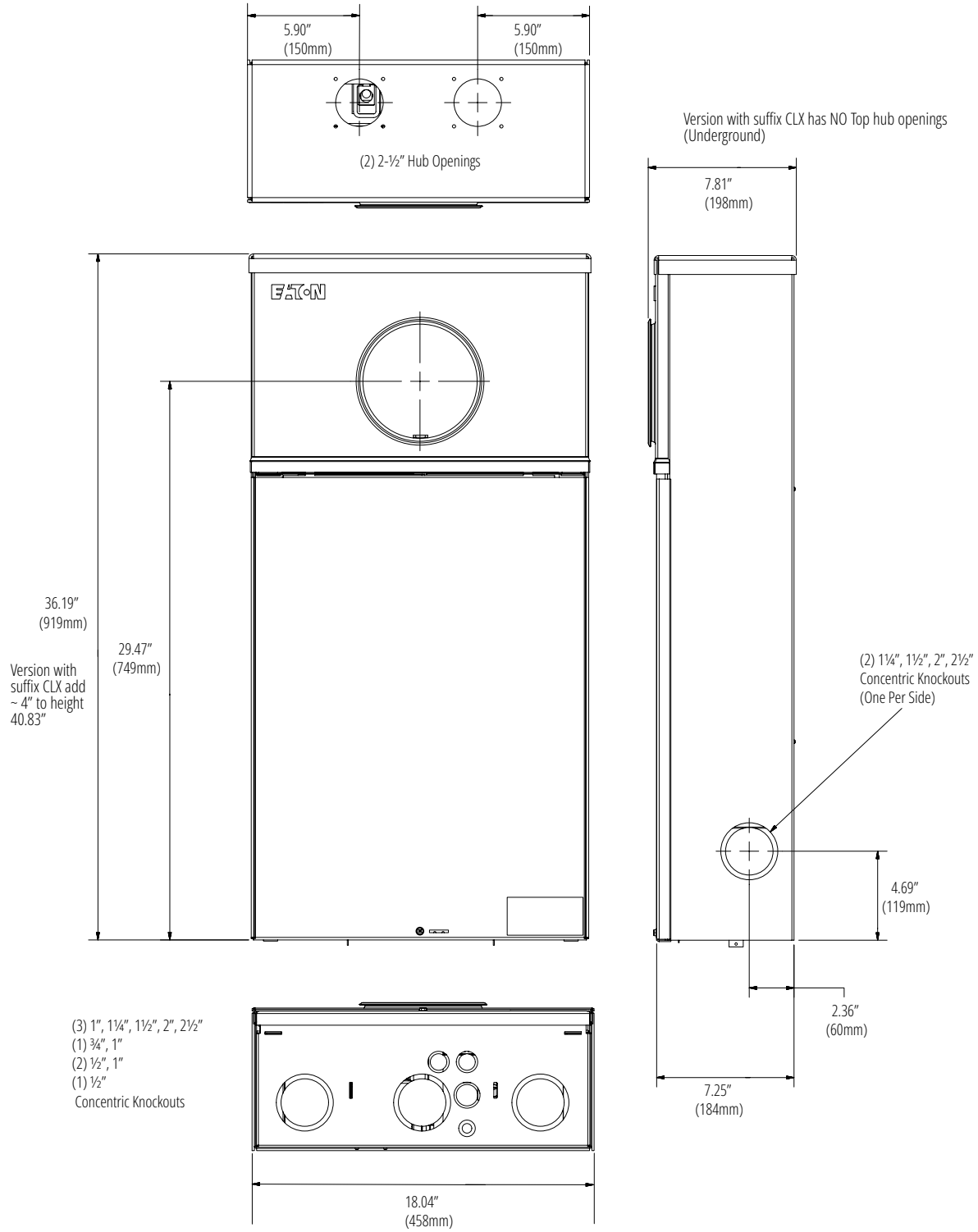


Table 67. Field replaceable components

Component	ATS model	Part number
Contactor	100A	CE22438G01
Contactor	200A	CE22439G01
Contactor	400A	10-9152-2
RTC-100 Controller	100A / 200A / 400A	RTC100FT
ATC-100 Controller	100A /200A	6D32377G02FT
Service Entrance Breaker	100A	CSR2100 & MCBK225
Service Entrance Breaker	200A	CSR2200 & MCBK225
Service Entrance Breaker	400A	KD2400F & KT2400T & 2TA401K
SOLENOID COIL (UPPER)	100A	MV4-01-0912
SOLENOID COIL (LOWER)	100A	MV4-01-0914
SOLENOID COIL (UPPER)	200A	MV4-02-0910
SOLENOID COIL (LOWER)	200A	MV4-02-0911
CLOSING COIL	400A	MV4-04-406F

RCJ1SN1GEN

Metered manual transfer switches

Product description

A metered manual transfer switch is service entrance equipment that consists of a single meter socket and a manual transfer switch. The manual transfer switch is comprised of a service entrance rated utility breaker and an emergency generator breaker that are mechanically interlocked to prevent dangerous dual source feeding.

Metered manual transfer switches are increasing in popularity as the socket and manual transfer switch are located in one easy to install location, thus providing the contractor with a labour and material savings when being installed.

Application description

Metered manual transfer switches are typically installed in rural residential and agricultural service entrance applications where utility power outages are more frequent.

Features, functions, and benefits

- Includes 200A rated meter socket
- Main utility and emergency (generator) breaker factory installed
- Available in 100 and 200A design
- Utility breaker and generator breakers are mechanically interlocked to protect equipment and personnel by preventing dangerous dual-source feeding
- Switched neutral design
- 50, 100, and 200A Generator circuit breaker models
- Type 3R outdoor design Standards and certifications
- CSA approved Product specifications
- 25,000 AIC rating switched neutral models
- Switching devices must be circuit breakers

Product selection

Table 68. Metered manual transfer switches

Description	Catalogue number				
	RCJ1SN05GEN	**RCJ1SN1GEN**	**RCJ2SN05GEN**	**RCJ2SN1GEN**	**RCJ2SN2GEN**
Voltage (V)	120/240	120/240	120/240	120/240	120/240
Amperes (A)	100	100	200	200	200
Poles	2	2	2	2	2
Frequency (Hz)	60	60	60	60	60
Main breaker (A)	100	100	200	200	200
Generator breaker	50	100	50	100	200
Switched neutral	Yes	Yes	Yes	Yes	Yes
CSA listed	Yes	Yes	Yes	Yes	Yes
Withstand rating	22,000	22,000	22,000	22,000	22,000
Switch type	ED Type Moulded Case Circuit Breaker				
Enclosure	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)	Type 3R (outdoor)
Height (Inches / mm)	32.375 / 822.3	32.375 / 822.3	32.375 / 822.3	32.375 / 822.3	32.375 / 822.3
Width (Inches / mm)	14.4375 / 366.7	14.4375 / 366.7	14.4375 / 366.7	14.4375 / 366.7	14.4375 / 366.7
Depth (Inches / mm)	5.375 / 136.5	5.375 / 136.5	5.375 / 136.5	5.375 / 136.5	5.375 / 136.5

NEMA 3R plug-in and bolt-on

Mini–power centers and other dry-type transformers are stocked by Eaton distributors. They are supported by regional distribution centers that maintain extensive inventories of virtually every dry-type transformer.

Table 69. Plug-in mini–power center (aluminum-wound transformer and loadcenter chassis standard) catalog number information

			Dimensions in inches (mm) [1]			Weight		Main circuit breaker [2]		Feeder breakers max. number [4] [5]		
kVA	Style number	Full capacity taps FCBN	Height	Width	Depth	Lb (kg)	Frame	Primary [3]	Secondary	Singlepole	Twopole	Max. amp
Single-phase												
480 V to 120/240 V												
3	**P48G11S0312**	2 at –5%	29.50 (749.3)	11.90 (302.3)	8.90 (226.1)	125 (56)	FR284	PDG22F0015TFFJ	BR215	12	6	12
5	**P48G11S0512**	2 at –5%	29.50 (749.3)	11.90 (302.3)	8.90 (226.1)	125 (56)	FR284	PDG22F0020TFFJ	BR225	12	6	20
7.5	**P48G11S0712**	2 at –5%	29.50 (749.3)	11.90 (302.3)	8.90 (226.1)	125 (56)	FR284	PDG22F0030TFFJ	BR230	12	6	30
10	**P48G11S1020**	2 at –5%	37.50 (952.5)	13.10 (332.7)	11.60 (294.6)	212 (96)	FR286	PDG22F0040TFFJ	BR250	20	10	40
15	**P48G11S1526**	2 at –5%	43.40 (1102.4)	15.90 (403.9)	14.50 (368.3)	373 (169)	FR287	PDG22F0060TFFJ	BR270	26	13	60
25	**P48G11S2526**	2 at –5%	43.40 (1102.4)	15.90 (403.9)	14.50 (368.3)	373 (169)	FR287	PDG22F0100TFFJ	BR2125	26	13	100
600 V to 120/240 V												
5	**P60G11S0512**	2 at –5%	29.50 (749.3)	11.90 (302.3)	8.90 (226.1)	125 (56)	FR284	PDG22F0015TFFJ	BR225	12	6	20
7.5	**P60G11S0712**	2 at –5%	29.50 (749.3)	11.90 (302.3)	8.90 (226.1)	125 (56)	FR284	PDG22F0030TFFJ	BR230	12	6	30
10	**P60G11S1020**	2 at –5%	37.50 (952.5)	13.10 (332.7)	11.60 (294.6)	212 (96)	FR286	PDG22F0040TFFJ	BR250	20	10	40
15	**P60G11S1526**	2 at –5%	43.40 (1102.4)	15.90 (403.9)	14.50 (368.3)	373 (169)	FR287	PDG22F0060TFFJ	BR270	26	13	60
25	**P60G11S2526**	2 at –5%	43.40 (1102.4)	15.90 (403.9)	14.50 (368.3)	373 (169)	FR287	PDG22F0100TFFJ	BR2125	26	13	100
Three-phase												
480 V to 208Y/120 V												
15	**P48G28T1518**	2 at –5%	36.10 (916.9) 28.80 (731.5)	28.80 (731.5)	9.40 (238.8)	320 (145)	FR289B	PDG23F0040TFFJ	PDG-23F0050TFFJ	18	9	40
22.5	**P48G28T2124**	2 at –5%	40.01 (1016.3) 32.63 (828.8)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0070TFFJ	PDG-23F0070TFFJ	24	12	60
30	**P48G28T3024**	2 at –5%	40.01 (1016.3) 32.63 (828.8)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0090TFFJ	PDG-23F0100TFFJ	24	12	80
600 V to 208Y/120 V												
15	**P60G28T1518**	2 at –5%	36.10 (916.9)	28.80 (731.5)	9.40 (238.8)	320 (145)	FR289B	PDG23F0030TFFJ	PDG-23F0050TFFJ	18	9	40
22.5	**P60G28T2124**	2 at –5%	40.01 (1016.3)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0050TFFJ	PDG-23F0070TFFJ	24	12	60
30	**P60G28T3024**	2 at –5%	40.01 (1016.3)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0070TFFJ	PDG-23F0100TFFJ	24	12	80

[1] Not for construction purposes.

[2] Secondary main breakers fixed only. No substitutes for ampere rating.

[3] Optional AIC rated main breakers available. See catalog numbering structure on page 10.

[4] Combinations can be selected.

[5] Feeder breakers not included. Use Eaton's Type BR family.

Table 70. Bolt-on mini–power center (copper-wound transformer and loadcenter chassis standard) catalog number information

			Dimensions in inches (mm) [1]			Weight		Main circuit breaker [2]		Feeder breakers max. number [4][5]			
kVA	Style number	Full capacity taps FCBN	Height	Width	Depth	Lb (kg)	Frame	Primary [3]	Secondary	Single pole	Twopole	Threepole	Max. amp
Single-phase													
480 V to 120/240 V													
3	**P48G11S0318CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	FR307	PDG22F0015TFFJ	BAB2015	18	9	—	12
5	**P48G11S0518CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	FR307	PDG22F0020TFFJ	BAB2025	18	9	—	20
7.5	**P48G11S0718CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	FR307	PDG22F0030TFFJ	BAB2030	18	9	—	30
10	**P48G11S1024CUB**	2 at –5%	43.91 (1115.3)	14.97 (380.2)	11.82 (300.2)	215 (98)	FR309	PDG22F0040TFFJ	BAB2050	24	12	—	40
15	**P48G11S1530CUB**	2 at –5%	43.37 (1101.6)	20.41 (518.4)	14.58 (370.3)	385 (175)	FR310	PDG22F0060TFFJ	BAB2070	30	15	—	60
25	**P48G11S2530CUB**	2 at –5%	43.37 (1101.6)	20.41 (518.4)	14.58 (370.3)	385 (175)	FR310	PDG22F0100TFFJ	BAB2125	30	15	—	100
600 V to 120/240 V													
3	**P60G11S0318CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	FR307	PDG22F0015TFFJ	BAB2015	18	9	—	12
5	**P60G11S0518CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	FR307	PDG22F0020TFFJ	BAB2025	18	9	—	20
7.5	**P60G11S0718CUB**	2 at –5%	36.14 (918.0)	12.56 (319.0)	9.66 (245.4)	110 (50)	FR307	PDG22F0030TFFJ	BAB2030	18	9	—	30
10	**P60G11S1024CUB**	2 at –5%	43.91 (1115.3)	14.97 (380.2)	11.82 (300.2)	215 (98)	FR309	PDG22F0040TFFJ	BAB2050	24	12	—	40
15	**P60G11S1530CUB**	2 at –5%	43.37 (1101.6)	20.41 (518.4)	14.58 (370.3)	385 (175)	FR310	PDG22F0060TFFJ	BAB2070	30	15	—	60
25	**P60G11S2530CUB**	2 at –5%	43.37 (1101.6)	20.41 (518.4)	14.58 (370.3)	385 (175)	FR310	PDG22F0100TFFJ	BAB2125	30	15	—	100
Three-phase													
480 V to 208Y/120 V													
15	**P48G28T1518CUB**	2 at –5%	34.27 (870.5)	31.50 (800.1)	9.35 (237.5)	320 (145)	FR289B	PDG23F0040TFFJ	BAB3050H	18	9	6	40
22.5	**P48G28T2124CUB**	2 at –5%	40.01 (1016.3)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0070TFFJ	BAB3070H	24	12	6	60
30	**P48G28T3024CUB**	2 at –5%	40.01 (1016.3)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0090TFFJ	BAB3100H	24	12	8	80
600 V to 208Y/120 V													
15	**P60G28T1518CUB**	2 at –5%	34.27 (870.5)	31.50 (800.1)	9.35 (237.5)	320 (145)	FR289B	PDG23F0030TFFJ	BAB3050H	18	9	6	40
22.5	**P60G28T2124CUB**	2 at –5%	40.01 (1016.3)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0050TFFJ	BAB3070H	24	12	6	60
30	**P60G28T3024CUB**	2 at –5%	40.01 (1016.3)	32.63 (828.8)	13.62 (345.9)	635 (288)	FR291B	PDG23F0070TFFJ	BAB3100H	24	12	8	80

[1] Not for construction purposes.

[2] Main breakers fixed only. No substitutes for ampere rating.

[3] Optional AIC rated main breakers available. See catalog numbering structure on page 10.

[4] Combinations can be selected.

[5] Feeder breakers not included. Use Eaton's Type BAB family.

NEMA Type 4X plug-in and bolt-on

Combine the convenience of mini–power centers (MPCs) with NEMA Type 4X enclosures for use in harsh industrial and commercial (corrosion, dust, house-directed water, icing) environments.

Table 71. Plug-in mini–power center (aluminum-wound transformer and loadcenter chassis standard) catalog number information

			Dimensions in inches (mm) [1]			Weight		Main circuit breaker [2]		Feeder breakers max. number [4][5]		
kVA	Style number	Full capacity taps FCBN	Height	Width	Depth	Lb (kg)	Frame	Primary [3]	Secondary	Singlepole	Twopole	Max. amp
Single-phase												
480 V to 120/240 V												
3	**P48G11S0312S64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	306 (139)	FR2854X	PDG22F0015TFFJ	BR215	12	6	12
5	**P48G11S0512S64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	306 (139)	FR2854X	PDG22F0020TFFJ	BR225	12	6	20
7.5	**P48G11S0712S64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	306 (139)	FR2854X	PDG22F0030TFFJ	BR230	12	6	30
10	**P48G11S1020S64X**	2 at –5%	39.81 (1011.2)	19.74 (501.4)	15.94 (404.9)	546 (248)	FR2874X	PDG22F0040TFFJ	BR250	20	10	40
15	**P48G11S1526S64X**	2 at –5%	39.81 (1011.2)	19.74 (501.4)	15.94 (404.9)	546 (248)	FR2874X	PDG22F0060TFFJ	BR270	26	13	60
25	**P48G11S2526S64X**	2 at –5%	39.81 (1011.2)	19.74 (501.4)	15.94 (404.9)	546 (248)	FR2874X	PDG22F0100TFFJ	BR2125	26	13	100
600 V to 120/240 V												
5	**P60G11S0512S64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	306 (139)	FR2854X	PDG22F0015TFFJ	BR225	12	6	20
7.5	**P60G11S0712S64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	306 (139)	FR2854X	PDG22F0030TFFJ	BR230	12	6	30
10	**P60G11S1020S64X**	2 at –5%	39.81 (1011.2)	19.74 (501.4)	15.94 (404.9)	546 (248)	FR2874X	PDG22F0040TFFJ	BR250	20	10	40
15	**P60G11S1526S64X**	2 at –5%	39.81 (1011.2)	19.74 (501.4)	15.94 (404.9)	546 (248)	FR2874X	PDG22F0060TFFJ	BR270	26	13	60
25	**P60G11S2526S64X**	2 at –5%	39.81 (1011.2)	19.74 (501.4)	15.94 (404.9)	546 (248)	FR2874X	PDG22F0100TFFJ	BR2125	26	13	100
Three-phase												
480 V to 208Y/120 V												
15	**P48G28T1524S64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	728 (330)	FR2914X	PDG23F0040TFFJ	PDG23F0050TFFJ	24	12	40
22.5	**P48G28T2124S64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	728 (330)	FR2914X	PDG23F0070TFFJ	PDG23F0070TFFJ	24	12	60
30	**P48G28T3024S64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	728 (330)	FR2914X	PDG23F0090TFFJ	PDG23F0100TFFJ	24	12	80
600 V to 208Y/120 V												
15	**P60G28T1524S64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	728 (330)	FR2914X	PDG23F0030TFFJ	PDG23F0050TFFJ	24	12	40
22.5	**P60G28T2124S64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	728 (330)	FR2914X	PDG23F0050TFFJ	PDG23F0070TFFJ	24	12	60
30	**P60G28T3024S64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	728 (330)	FR2914X	PDG23F0070TFFJ	PDG23F0100TFFJ	24	12	80

[1] Not for construction purposes.

[2] Secondary main breakers fixed only. No substitutes for ampere rating.

[3] Optional AIC rated main breakers available. See catalog numbering structure on page 10.

[4] Combinations can be selected.

[5] Feeder breakers not included. Use Eaton's Type BR family.

Table 72. Bolt-on mini–power center (copper-wound transformer and loadcenter chassis standard) catalog number information

			Dimensions in inches (mm) [1]			Weight		Main circuit breaker [2]		Feeder breakers max. number [4][5]			
kVA	Style number	Full capacity taps FCBN	Height	Width	Depth	Lb (kg)	Frame	Primary [3]	Secondary	Singlepole	Twopole	Threepole	Max. amp
Single-phase													
480 V to 120/240 V													
3	**P48G11S0318CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2854X	PDG22F0015TFFJ	BAB2015	18	9	—	12
5	**P48G11S0518CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2874X	PDG22F0020TFFJ	BAB2025	18	9	—	20
7.5	**P48G11S0718CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2874X	PDG22F0030TFFJ	BAB2030	18	9	—	30
10	**P48G11S1024CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2874X	PDG22F0040TFFJ	BAB2050	24	12	—	40
15	**P48G11S1530CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	650 (295)	FR2914X	PDG22F0060TFFJ	BAB2070	30	15	—	60
25	**P48G11S2530CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	650 (295)	FR2914X	PDG22F0100TFFJ	BAB2125	30	15	—	100
600 V to 120/240 V													
3	**P60G11S0318CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2854X	PDG22F0015TFFJ	BAB2015	18	9	—	12
5	**P60G11S0518CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2874X	PDG22F0020TFFJ	BAB2025	18	9	—	20
7.5	**P60G11S0718CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2874X	PDG22F0030TFFJ	BAB2030	18	9	—	30
10	**P60G11S1024CUBS64X**	2 at –5%	34.25 (870.0)	16.00 (406.4)	11.35 (288.3)	340 (154)	FR2874X	PDG22F0040TFFJ	BAB2050	24	12	—	60
15	**P60G11S1530CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	650 (295)	FR2914X	PDG22F0060TFFJ	BAB2070	30	15	—	60
25	**P60G11S2530CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	650 (295)	FR2914X	PDG22F0100TFFJ	BAB2125	30	15	—	100
Three-phase													
480 V to 208Y/120 V													
15	**P48G28T1524CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	898 (407)	FR2914X	PDG23F0040TFFJ	BAB3050H	24	12	8	40
22.5	**P48G28T2124CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	898 (407)	FR2914X	PDG23F0070TFFJ	BAB3070H	24	12	8	60
30	**P48G28T3024CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	898 (407)	FR2914X	PDG23F0090TFFJ	BAB3100H	24	12	8	80
600 V to 208Y/120 V													
15	**P60G28T1524CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	898 (407)	FR2914X	PDG23F0030TFFJ	BAB3050H	24	12	8	40
22.5	**P60G28T2124CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	898 (407)	FR2914X	PDG23F0050TFFJ	BAB3070H	24	12	8	60
30	**P60G28T3024CUBS64X**	2 at –5%	37.63 (955.8)	30.84 (783.3)	14.50 (368.3)	898 (407)	FR2914X	PDG23F0070TFFJ	BAB3100H	24	12	8	80

[1] Not for construction purposes.

[2] Main breakers fixed only. No substitutes for ampere rating.

[3] Optional AIC rated main breakers available. See catalog numbering structure on page 10.

[4] Combinations can be selected.

[5] Feeder breakers not included. Use Eaton's Type BAB family.

Selection guide

MPC catalog numbering system

P 48 G 28 T 15 24 H CU S64X

Product type
P = Mini–power center

Primary voltage ①
48 = 480 V
60 = 600 V

Taps configuration ②
G = 2 at –5%

Secondary voltage ①
11 = 120/240 V
28 = 208Y/120 V

Phase, temperature rise
S = Single-phase, 115 °C
T = Three-phase, 115 °C
B = Single-phase or three-phase, 80 °C

kVA
03 = 3
05 = 5
07 = 7.5
10 = 10
15 = 15
21 = 22.5
25 = 25
30 = 30

Number of circuits in distribution section
12 = 12
18 = 18
20 = 12
24 = 24
26 = 26

Primary main breaker AIC rating
Blank = 25 kAIC at 480 V, 14 kAIC at 600 V
H = 65 kAIC at 480 V, 25 kAIC at 600 V
C = 100 kAIC at 480 V, 35 kAIC at 600 V

Winding/distrbution panels material
Blank = Aluminum-wound transformer, aluminum plug-in interior
CU = Copper-wound transformer, aluminum plug-in interior
CUB = Copper-wound transformer, copper bolt-on interior

NEMA enclosure
Blank = NEMA 3R, painted steel
SS = NEMA 3R, 304 stainless steel
S6 = NEMA 3R, 316 stainless steel
S64X = NEMA 4X, 316 stainless steel

① For additional primary and/or secondary voltages, contact the Flex Center (DTDTFlex@eaton.com).

② For additional tap configurations, contact the Flex Center (DTDTFlex@eaton.com).

Note: These tables are intended for use in breaking down existing catalog numbers. They are not intended for building new catalog numbers.

Residential fuse panel inserts

QLPT22ADW

- 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 **Page 17** to **page 22** 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

[a] Not for use as service entrance equipment.

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 100 A and 120/240 V, designed in a single row breaker arrangement for fitting into existing recessed electrical panels
- Supply and install new trim and door assembly slightly larger then 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 and 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

Insert interiors

CQLP12100

Residential fuse panel insert interiors

- 100 A single-phase, three-wire 120/240 Vac
- 16 and 24 circuit breaker capacity [a]
- CSA certified to mount into any existing box with an internal volume of more than 325 cubic inches.
- Accepts plug-in type BR, DNPL and GFTCB circuit breakers [ab]
- 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 #14–3 AWG cabling

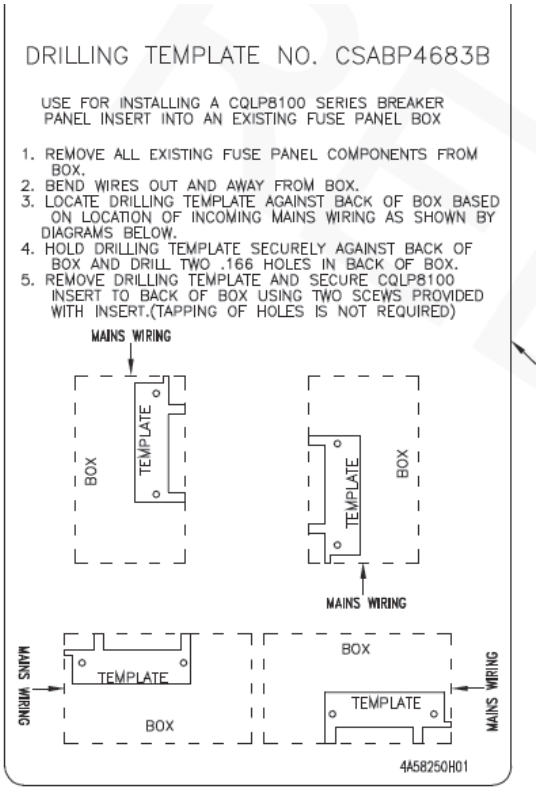
[a] Filler plates for unused fuse panel insert circuit breaker installation locations can be ordered as BRFP (package of 25).

[b] Refer to **Page 17 to Page 22** for plug-in circuit breaker selection.

Table 73. Three-wire 120/240 Vac fuse panel insert interiors

Amperage rating (A)	Voltage (V)	Number of installable circuit breakers 1-inch spaces	1/2-inch spaces	Bus material	Neutral material	Wire size range Cu/Al	Catalogue number	Drilling template catalogue number [a]
100	120/240	8	16	Aluminum	Aluminum	#14–3 AWG	**CQLP8100**	**CSABP4683B**
100	120/240	12	24	Aluminum	Aluminum	#14–3 AWG	**CQLP12100**	**CSABP4734B**

[a] We suggest the use of templates to ensure proper sizing for installation.



Trims

QLPT22ADW

Residential fuse panel insert trims

- Doors are die formed with sloping sides and rounded corners and permanently mounted to the trim
- Semi concealed hinges [a]
- Includes circuit directory card and self adhesive clear plastic directory holder
- Painted white baked on enamel
- Mounting hardware included [b]
- Trims are custom sized larger than the existing trim and door
- Trim mounting holes located to line up with existing box holes [c]

[a] If the main service entrance is bottom entry, the door hinges left. If it is top entry, then the door hinges right.

[b] The hardware supplied will accommodate boxes that are mounted up to 1/2-inch too deep or equal to 3-1/2 inches net depth.

[c] Measure the existing box holes locations as they may be part of the end walls, side walls, or tapped into a box flange.

Table 74. Fuse panel insert trims

Original manufacturer	Fuse panel catalogue number	Box dimensions (inches)			Replacement trim catalogue number	Trim size (inches)		Replacement interior catalogue number	Trim mounting holes (inches)	
		Height	Width	Depth		Height	Width		Height	Width
Amalgamated	**4112**	16-1/8	8-1/2	2-15/16	**QLPT16DW**	18-1/4	9-3/4	**CQLP8100**	16-1/6	4
Amalgamated	**4116**	19-1/2	8-1/2	2-15/16	**QLPT19DW**	20-7/8	9-3/4	**CQLP8100**	18-11/16	4
Amalgamated	**4120**	22-7/8	8-1/2	2-15/16	**QLPT22ADW**	25	10-1/2	**CQLP12100** [a]	22-1/4	6
Amalgamated	**4208**	16-1/8	8-1/2	2-15/16	**QLPT16ADW**	18-1/4	10-5/16	**CQLP8100**	15-1/2	6
Amalgamated	**4212**	19-1/2	8-1/2	2-15/16	**QLPT20ADW**	20-7/8	9-3/4	**CQLP8100**	18-11/16	6
Amalgamated	**4216**	22-7/8	8-1/2	2-15/16	**QLPT22ADW**	25	10-1/2	**CQLP12100** [a]	22-1/4	6
Amalgamated	**4220**	24-1/8	8-1/2	2-15/16	**QLPT24DW**	26	9-3/4	**CQLP12100** [a]	23-13/16	4
Amalgamated	**4312**	22-7/8	8-1/2	2-15/16	**QLPT22ADW**	25	10-1/2	**CQLP12100** [a]	22-1/4	6
CEB	**NHP10-636-3** [b]	24	10	3	**QLPT24LDW**	26	12	**CQLP12100** [a]	23-13/16	4
CEB	**NHP6-60** [c]	14	7-3/4	3	**QLPT14DW**	16	9-3/4	**CQLP8100**	13-3/16	4
CEB	**NHP12-60**	20	7-3/4	3	**QLPT20DW**	21-3/4	9-3/4	**CQLP12100** [a]	19-9/16	4
CEB	**NHP12-633**	23	7-3/4	3	**QLPT24DW**	26	9-3/4	**CQLP12100** [a]	23-13/16	4
CEB	**NHP4-632**	16-1/4	7-3/4	3	**QLPT16DW**	18-1/4	9-3/4	**CQLP8100**	16-1/6	4
CEB	**NHP6-633**	20	7-3/4	3	**QLPT19DW**	20-7/8	9-3/4	**CQLP8100**	18-11/16	4
CEB	**NHP6-636-4**	24	7-3/4	3	**QLPT24DW**	26	9-3/4	**CQLP12100** [a]	23-13/16	4
CEB	**NHP8-60**	16-1/8	7-3/4	3	**QLPT16DW**	18-1/4	9-3/4	**CQLP8100**	16-1/6	4
CEB	**NHP8-635-3**	23	7-3/4	3	**QLPT24DW**	26	9-3/4	**CQLP12100** [a]	23-13/16	4
Taylor (Crouse-Hinds)	**NHP6-30-60**	21	7-3/8	3	**QLPT20DW**	21-3/4	9-3/4	**CQLP12100** [a]	19-9/16	4
Taylor (Crouse-Hinds)	**NHP20-1231**	24-1/2	9-1/2	3	**QLPT24DW**	26	9-3/4	**CQLP12100** [a]	23-13/16	4
Taylor (Crouse-Hinds)	**NHP20-0821-6**	24-1/2	9-1/2	3	**QLPT24DW**	26	9-3/4	**CQLP12100** [a]	23-13/16	4
Taylor (Crouse-Hinds)	**NHP12B-1000-2**	17-1/8	9-1/2	3	**QLPT16ADW**	18-1/8	10-5/16	**CQLP8100**	15-1/2	6
Taylor (Crouse-Hinds)	**NHP10-0401-4**	17-1/8	9-1/2	3	**QLPT16ADW**	18-1/8	10-5/16	**CQLP8100**	15-1/2	6
Taylor (Crouse-Hinds)	**NHP10-0601-2**	17-1/8	9-1/2	3	**QLPT16ADW**	18-1/8	10-5/16	**CQLP8100**	15-1/2	6
Taylor (Crouse-Hinds)	**NHP10-0611**	17-1/8	9-1/2	3	**QLPT16ADW**	18-1/8	10-5/16	**CQLP8100**	15-1/2	6
Taylor (Crouse-Hinds)	**NHP10-0801**	17-1/8	9-1/2	3	**QLPT16ADW**	18-1/8	10-5/16	**CQLP8100**	15-1/2	6
Taylor (Crouse-Hinds)	**NHP12-0811**	19-1/4	9-1/2	3	**QLPT22ADW**	25	10-1/2	**CQLP12100** [a]	22-1/4	6
Taylor (Crouse-Hinds)	**NHP14-0801-4**	19-1/4	9-1/2	3	**QLPT22ADW**	25	10-1/2	**CQLP12100** [a]	22-1/4	6
Taylor (Crouse-Hinds)	**NHP14-0621-2**	19-1/4	9-1/2	3	**QLPT22ADW**	25	10-1/2	**CQLP12100** [a]	22-1/4	6

[a] Panel insert CQLP8100 can also be used with this size trim.

[b] For box sizes either 26 inches or 27-1/2 inches high, no insert or trim is available.

[c] For box size 14" only

Bolt-on Type BQL single, multi-pole, Duplex, and Quadplex

Type BQL [a]

- 10,000/22,000 A interrupting capacity at 120/240 Vac
- Captive line screw included (#2 Robertson/Slot)

[a] HACR rated.

Product selection

Table 75. Single and multi-pole bolt-on classic replacement circuit breakers

Ampere rating	Wire size range (Cu/Al 60 °C or 75 °C) (AWG)	Catalogue number				
		Single-pole, 120/240 Vac		Two-pole, 120/240 Vac	Three-pole, 120/240 Vac	
		10 kAIC	22 kAIC	10 kAIC	10 kAIC	22 kAIC
15	#14–8	**BQL15** [a]	**HBQL15**	**BQL215**	**BQL315**	—
20	#14–8	**BQL20** [a]	**HBQL20**	**BQL220**	**BQL320**	—
25	#14–8	**BQL25**	—	**BQL225**	—	—
30	#14–8	**BQL30**	**HBQL30**	**BQL230**	**BQL330**	—
40	#14–4	**BQL40**	**HBQL40**	**BQL240**	**BQL340**	—
50	#14–4	**BQL50**	**HBQL50**	**BQL250**	**BQL350**	**HBQL350**
60	#8–2/0	**BQL60**	**HBQL60**	**BQL260**	**BQL360**	**HBQL360**
70	#8–2/0	—	—	**BQL270**	**BQL370**	—
90	#8–2/0	—	—	**BQL290**	**BQL390**	—
100	#8–2/0	—	—	**BQL2100**	**BQL3100**	**HBQL3100**
125	#8–2/0	—	—	**BQL2125**	—	—
135	#8–2/0	—	—	**BQL2135**	—	—
		Requires one 1-inch (25.4 mm) space		Requires two 1-inch (25.4 mm) spaces	Requires three 1-inch (25.4 mm) spaces	

[a] Switching duty rated (SWD).

Type BQL Duplex and Quadplex [a]

- 10,000/22,000 A interrupting capacity at 120/240 Vac
- Captive line screw included (#2 Robertson/Slot)

[a] HACR rated.

Table 76. Type BQL Duplex and Quadplex bolt-on classic replacement circuit breakers

Duplex		Quadplex independent trip							
Two single-pole circuits		Two single-pole circuits and one two-pole circuit				Two two-pole circuits			
Ampere rating		Ampere rating				Ampere rating			
		120 Vac	120/240 Vac	120 Vac		120/240 Vac			
120 Vac	Catalogue number	Outer left (single-pole)	Centre (two-pole)	Outer right (single-pole)	Catalogue number	Outer left and right (two-pole)	Centre (two-pole)	Catalogue number	Wire size range (Cu/Al 60 °C or 75 °C) (AWG)
15–15	**BQLT15** [a]	15	15	15	**BQLT15215**	15	15	**BQLT215215**	#14–4
20–20	**BQLT20** [a]	15	20	15	**BQLT15220**	20	20	**BQLT220220**	#14–4
30–30	**BQLT30** [a]	15	25	15	**BQLT15225**	15	30	**BQLT215230**	#14–4
—	—	15	30	15	**BQLT15230**	15	40	**BQLT215240**	#14–4
—	—	15	40	15	**BQLT15240**	—	—	—	#14–4
Requires one 1-inch (25.4 mm) space		Requires two 1-inch (25.4 mm) spaces				Requires two 1-inch (25.4 mm) spaces			

[a] Switching duty rated (SWD).

Bolt-on Type BQL ground fault and moulded case switches

Type BQL ground fault circuit breakers

- 10,000 A interrupting capacity at 120/240 Vac
- 5 mA “people protection”

Product selection

5 mA single and two-pole bolt-on ground fault circuit breakers are no longer able to be manufactured due to change in UL standard to require all GF devices to “Self Test”.

Type BQL non-automatic circuit breakers (moulded case switches)

- 240 Vac
- Two- and three-pole versions

Table 77. Two- and three-pole bolt-on non-automatic circuit breakers (moulded case switches)

Ampere rating	Wire size range Cu/Al 60 °C or 75 °C (AWG)	Catalogue number Two-pole, 240 Vac	Three-pole, 240 Vac
60	#8–1 Cu #8–1/0 Al	**BQL260NA**	—
		Requires two 1-inch (25.4 mm) spaces	Requires three 1-inch (25.4 mm) spacesote:

Note: When the Canadian Electrical Code requires the use of an unfused disconnect device as a local isolation switch, then a circuit breaker enclosure may be used in conjunction with a moulded case switch (a k a a non-automatic circuit breaker) For example, with an air conditioning unit, the protective device for these applications is located upstream.

Bolt-on Type QBH single and multi-pole.

Type QBH

- 120/240 Vac
- 3/4-inch form factor
- Designed to fit the classic CEB, Sylvania or Commander Electric design bolt-on loadcentres
- Suitable for loadcentres, lighting and distribution panelboards, and meter centres
- Silver Tungsten contacts with wiping action to prevent carbon buildup on the contact surface
- Handle provides clear indication of ON/OFF/TRIPPED position
- Quick-make / quick-break mechanism provides tease-proof operation
- Internal common trip mechanism on two-pole circuit breakers
- Each breaker is electronically calibrated for 40 °C
- Compression moulded housing and handle for durability and service

Table 78. Single and two-pole bolt-on classic replacement circuit breakers

Ampere rating	Wire size range 60 °C or 75 °C (AWG)	Catalogue number Single-pole, 120 Vac 10 kAIC	Two-pole, 120/240 Vac 10 kAIC
15	#14–10 Cu, #12–10 Al	**QBH15**	**QBH215**
20	#14–10 Cu, #12–10 Al	**QBH20**	**QBH220**
25	#14–10 Cu, #12–10 Al	—	**QBH225**
30	#10–2 Cu, #10–1 Al	**QBH30**	**QBH230**
40	#10–2 Cu, #10–1 Al	**QBH40**	**QBH240**
50	#10–2 Cu, #10–1 Al	**QBH50**	**QBH250**
60	#10–2 Cu, #10–1 Al	**QBH60**	**QBH260**
70	#10–2 Cu, #10–1 Al	—	**QBH270**
90	#10–2 Cu, #10–1 Al	—	**QBH290**
100	#10–2 Cu, #10–1 Al	—	**QBH2100**
125	#10–1 Cu	—	**QBH2125**
		Requires one 3/4-inch (19.1 mm) space	Requires two 3/4-inch (19.1 mm) spaces

Plug-in Type BJ two- and three-pole

Type BJ [a]

- Main circuit breakers for classic Westinghouse NovaLine loadcentres
- 10,000 A interrupting capacity at 120/240 Vac

[a] BJ breakers are also approved as branch circuit breakers on CPM/CPL panels 200 A and greater.

Table 79. Type BJ two- and three-pole plug-in classic replacement circuit breakers

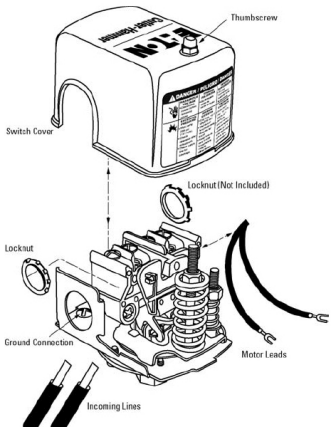
		Catalogue number	
Ampere rating	Wire size range Cu/Al 60 °C or 75 °C (AWG)	Catalogue numberTwo-pole, 120/240 Vac1 per shelf carton 10 kAIC	Three-pole, 120/240 Vac 1 per shelf carton 10 kAIC
125	#2–300 MCM	**BJ2125**	**BJ3125**
150	#2–300 MCM	**BJ2150**	**BJ3150**
175	#2–300 MCM	**BJ2175**	**BJ3175**
200	#2–300 MCM	**BJ2200**	**BJ3200**
		Requires four 1-inch (25.4 mm) spaces [a]	Requires six 1-inch (25.4 mm) spaces [b]

[a] When mounted, the Type BJ circuit breakers span both sides of the bus bar occupying an equivalent number of pole spaces on both the left and right side of the loadcentre. For example a two-pole Type BJ circuit breaker occupies 2 pole spaces on the left and the same number of spaces on the right thus requiring four 1-inch spaces.

[b] When mounted, the Type BJ circuit breakers span both sides of the bus bar occupying an equivalent number of pole spaces on both the left and right side of the loadcentre. For example a three-pole Type BJ circuit breaker occupies 3 pole spaces on the left and the same number of spaces on the right thus requiring six 1-inch spaces.

Pressure switch

- Ensures smooth delivery of water into your home
- Commercial, residential, or agricultural applications
- Can be used on all types of pumps
- Pressure ratings 20–40 PSI, 30–50 PSI, and 40–60 PSI
- Adjustable cut-in and cut-out pressure
- Easy installation
- CSA certified and UL listed
- Pulsation plug models prevent pump cycling due to water surges
- Low pressure cut-off models prevent pump burn out due to lack of well water (10 PSI below turn on pressure)
- 3-year product warranty



Product selection

Table 80. Pressure switches

Description	Enclosure style	Catalogue number
20–40 PSI pressure switch	NEMA 1	**CHWPS2040D**
20–40 PSI pressure switch with pulsation plug	NEMA 1	**CHWPS2040DP**
20–40 PSI pressure switch with low pressure cut-off	NEMA 1	**CHWPS2040DL**
30–50 PSI pressure switch	NEMA 1	**CHWPS3050D**
30–50 PSI pressure switch with low pressure cut-off	NEMA 1	**CHWPS3050DL**
40–60 PSI pressure switch	NEMA 1	**CHWPS4060D**

Table 81. Pressure switch ratings

Phase	Voltage (AC)	Amperage	Horsepower
Single	115	20	1.5
Handle tie	230	12	2.0

Table 82. Pressure switch cross-reference

	Catalogue number				
Description	Eaton	Square DT	FlotecT	Water AceT	FurnasT
20–40 PSI pressure switch	**CHWPS2040D**	**9013FSG2J20**	—	**15767A510**	**69WA4Z2040**
20–40 PSI pressure switch with pulsation plug	**CHWPS2040DP**	**9013FSG2J20P**	—	—	**69WA4Z2040B**
20–40 PSI pressure switch with low pressure cut-off	**CHWPS2040DL**	**9013FSG2J20M4**	—	—	**69WEC**
30–50 PSI pressure switch	**CHWPS3050D**	**9013FSG2J21**	**TC2151**	**15760A501**	**69WA4**
30–50 PSI pressure switch with low pressure cut-off	**CHWPS3050DL**	**9013FSG2J21M4**	**FP217-1140**	**19180A501**	—
40–60 PSI pressure switch	**CHWPS4060D**	**9013FSG2J24**	**TC2153**	—	**69WA4Z4060**

Notes:

- CSA is a registered trademark of the Canadian Standards Association
- UL is a federally registered trademark of Underwriters Laboratories Inc.
- NEMA Is the registered trademark and service mark of the National Electrical Manufacturers Association
- Square D is a federally registered trademark of Schneider Electric
- Flotec is a registered trademark of Flotec
- Furnas is a registered trademark of Siemens Energy and Automation, Inc.
- Water Ace is a registered trademark of the Pentair Pump Group

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Printed in Canada
Publication number: CA003011EN
January 2026

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