Contents

Type BR Loadcenters and Circuit Breakers

Type BR Loadcenters and Circuit Breakers



Contonto	
Description	Page
Overview	
Product Description	V1-T1-42
Features, Benefits and Functions	V1-T1-42
Standards and Certifications	V1-T1-44
Catalog Number Selection	V1-T1-44
Product Selection	V1-T1-45
BR Specialty Products	
Spa Panels	V1-T1-56
Riser Panel	V1-T1-57
Type BR Renovation Loadcenter	V1-T1-58
Type BR Retrofit Interior Kits	V1-T1-67
BR Circuit Breakers	V1-T1-69

Overview

Product Selection Guide

BR Loadcenters

Description

Description							
Service							
Single-phase, three-wire, 120/240 Vac	Three-phase, four-wire, 208Y/120 Vac						
	Three-phase, three-wire, 240 Vac delta						
Short-Circuit Current Rating							
10 kAIC: All single- and three-phase loadcenters 70–225A, 8 to 42 circuits	25 kAIC: All convertible and factory-installed single-phase loadcenters rated						
22 kAIC: All convertible loadcenters using 125A rated Type BRH main breakers or selected factory installed 125A rated Type BRH main breaker	150 and 200A using Type BWH main breakers						
Main Breaker/Main Lug Loadcenters							
Single-phase	Three-phase						
Main breaker: 100, 125, 150, 200, 225, 400, 600A Main lugs: 70, 125, 150, 200, 225, 400, 600A	Main breaker: 100, 125, 150, 200, 225, 400, 600A Main lugs: 100, 125, 150, 200, 225, 400, 600A						
Convertible Loadcenters							
Main breaker: single-phase up to 200A and three-phase up to 225A	Main lugs: single-phase up to 200A and three-phase up to 150A						
Branch Breakers							
Types BR, BRH and BRHH: 10–150A. single-, two- and three-pole; selected amperage	Type BQ and BQC Multibreaker: 15–30A. Two of two-pole or one two-pole and						
available in switching duty, HACR, shunt trip and high magnetic setting	two one-pole; takes two 1-inch (25.4 mm) spaces						
Type GFCB: 15–60A	Type BRW: 15–30A; two-pole water heater breakers						
Types BJ and BJH: 125–225A; two- and three-pole	Type BRSN: 15–30A; two-pole switching neutral breakers						
Type BD Twin: 10-50A; two of one-pole; take one 1-inch (25.4 mm) space	Type BR 15–100A; two-pole, 240 Vac delta breakers						
	BR-AFCI arc fault circuit interrupter						
Enclosures							
NEMA Type 1 indoor	NEMA 4X						
NEMA Type 3R outdoor	Meets or exceeds UL requirements for indoor or outdoor applications						
Loadcenter and Breaker Accessories							
Branch circuit breaker:	Surge protection:						
Auxiliary components Hold-down kits Handle ties Lockoffs Lockdogs	Single-phase plug-on surge protector Three-phase bottle type surge protector Single-phase bottle type surge protector Single-phase whole home surge protector						
Complete line of ground bar kits 5, 10, 14 and 21 circuit, some with additional #2/0 lugs; each terminal will accommodate: (3) #14-#10 Cu/Al or (1) #14-#4 Cu/Al	Universal rainproof conduit hubs Group One: 3/4, 1, 1-1/4, 1-1/2, 2 inches (19.1, 25.4, 31.8, 38.1, 50.8 mm)						
Main and sub-feed lugs 125, 150, 225A—two- and three-pole	Group Two: 2, 2-1/2, 3 inches (50.8, 63.5, 76.2 mm)						
Shunt trips	Adapter plate						
Bussing							
Tin-plated aluminum as standard	Limited copper bus panels available						

Product Description

Loadcenters are enclosures specifically designed to house the branch circuit breakers and wiring required to distribute power to individual circuits. They contain either a main breaker when used at the service entrance point or a main lug when used as a sub-panel to add circuits to existing service. The main breaker protects the main entire panel and can be used as a service disconnect. The branch breakers protect the wires leading to individual electrical loads such as fixtures and outlets

Features, Benefits and Functions

Loadcenter Construction

Eaton's Type BR loadcenters have standard tin-plated aluminum bus with a limited availability of copper bus. The sum of the handle ratings connected to any stab is limited to 150A maximum on the 100 and 125A loadcenters, and 200A on loadcenters with 150A or higher main bus. NEMA Type 1 boxes or enclosures are manufactured from galvanized steel. Raintight boxes are manufactured from galvanized steel, then finished using an electrostatic powder coat, baked urethane paint process.

Neutrals

Eaton Type CH loadcenters feature two types of neutrals:

Insulated/Bondable Split Neutral

Panels are supplied with split insulated neutrals with an insulated cross strap. For service entrance applications, the neutral must be bonded by using the bonding strap supplied with the panel. For non-service entrance (subpanel) applications, the panel may be installed with the bonding strap not connected to the neutral. Separate ground bars must be used on non-service entrance panels.

Insulated/Bondable Single Neutral

Panels are supplied with a single insulated neutral. For service entrance applications, all that is required to bond the neutral is to loosen the bonding screw and the neutral screw directly beside it, insert the bonding strap into the neutral bar, and retighten both connections. The single neutral can be moved by the contractor to the other side of the panel, if desired. When used as a service entrance panel, unused neutral connections may be used for the termination of equipment grounds. For nonservice entrance (sub-panel) applications, the panel may be installed with the bonding strap not connected to the neutral. Separate ground bars must be used on non-service entrance panels.

Grounds

In service entrance applications where the neutral is bonded, unused neutral holes may be used for terminating ground conductors. In sub-feed panels, the neutral must be isolated (non-bonded), and ground wires must be terminated on a separate ground bar.

The insulated/bondable single/split neutral panels have sufficient terminations for both ground and neutral conductors. The insulated/ bondable single split neutral panels are supplied with a separate factory-installed ground bar if the catalog number contains a "G." If not, a separate ground bar should be installed. Insulated/ Bondable Single Neutral panels are supplied without a ground bar (unless otherwise noted), and ground bar kits if needed must be purchased separately.

Neutral and Ground Terminals

The standard terminals on grounds and neutrals are rated to accept (3) #14–#10 Cu/Al or (1) #14–4, provided the cables terminated are of the same material. For larger cables, add-on neutral lugs may be ordered from the accessories on **Page V1-T1-60**.

Note: NEC allows only one current-carrying conductor per hole on neutrals unless otherwise noted.

Bottom Fed Loadcenters

For single-phase 225A and below loadcenters that are bottom fed, a standard panel can be rotated 180 degrees to allow straight-in wiring of power cables to the main terminals. Because the main circuit breaker handle operates horizontally, the orientation of the main circuit breaker handle is consistent with the requirements of NEC 2008 Article 240.81.

Gutter Splicing

Loadcenters are not UL listed as wiring troughs. Therefore, gutter splicing of riser cables to tap off to the main device is not permitted. Refer to NEC 2008 Article 312.8.

Fire Rating

Due to the numerous openings in both loadcenter boxes and trims, they should not be mounted in firewalls. There is no approved method for sealing the enclosures for this application.

Date Code

The date of manufacture of each loadcenter is printed on the outside of the carton as well as inside the loadcenter. On the carton, the date code is printed on the end carton label. In the loadcenter, the date code is located on the small white label located on the right side wall (with the main device on top).

The date code is in the following format: F # # # &. The "F" is the numeric code for the Lincoln, IL plant, and the three numbers are the year and week of manufacturing, e.g., 023. The "!" sign at the end signifies the decade of the 2010. Therefore, the date code F023& would indicate that the product was manufactured in the 23rd week of 2010. The 1980s are represented by the "+" $\,$ sign and the 1990s are represented by a "=" at the end of the code.

Surge Protectors

Complete home surge protection is available in multiple options, including a factory-installed option that provides the highest level of surge protection in a residential design. See Tab 3 for more details.

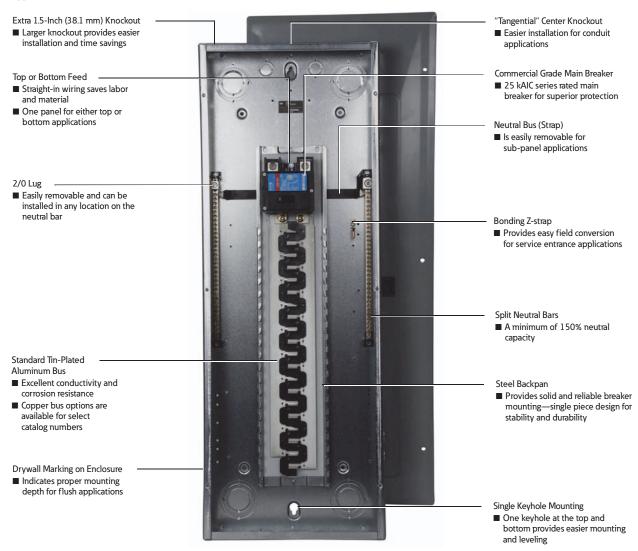
Circuit Breaker Case Interrupting Capacity

- 10 kAIC
- 22 kAIC
- 25 kAIC

Warranty Information

- 10-year limited loadcenter warranty
- 10-year limited branch breaker warranty

Type BR Loadcenter - BR4040B200



Warranty

10-year warranty on all Type BR loadcenters and circuit breakers. 1

Standards and Certifications

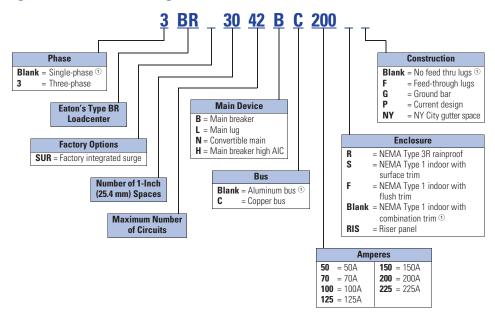
UL Listings

All Eaton Type BR loadcenters are listed under UL File E52977 except the 2–8 circuit loadcenters, up through and including 125A, which are listed under UL File E8741.

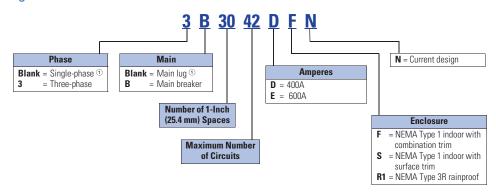


Catalog Number Selection

Single- and Three-Phase Through 225A



Single- and Three-Phase 400-600A



Example No. 1: BR1224L125G

Single-phase Type BR loadcenter rated at 125A with main lugs, 12 spaces allowing 24 poles, indoor combination enclosure, aluminum bus and ground bar.

Example No. 2: BR24L70RP

Single-phase Type BR loadcenter rated at 70A with main lugs, two spaces allowing four poles, rainproof enclosure with aluminum bus.

Example No. 3: 3B4242EFN

Three-phase Type BR loadcenter rated at 600A with main breaker, 42 spaces allowing 42 poles, indoor combination enclosure.

Note

No character space used.

Product Selection

Single-Phase—Main Circuit Breaker Loadcenters—10/25 kAIC

RR4040R200

Single-Phase Three-Wire - 120/240 Vac - Insulated/Bondable Split Neutral



Main Breaker Type	Main Ampere Rating	Maximum Number 1-Inch (25.4 mm)		Enclosure	Вох	Wire Size Range Cu/Al 60°C or 75°C	Loadcenter Catalog Number with Combination ① or
		Spaces	Circuits	Туре	Size	for Main Breaker	NEMA Type 3R Cover
BR	100	8	16	Indoor	B1	#4-1/0 ②	BR816B100
10 kAIC		10	20	Indoor	A1		BR1020B100S11
		10	20	Indoor	A1		BR1020B100F11
		10	20	Outdoor	B2R		BR1020B100RF 34
		12	12	Indoor	B2		BR1212B100
		12	20	Indoor	B2		BR1220B100
		12	24	Outdoor	B2R		BR1224B100R 4
		16	16	Indoor	C1		BR1616B100
		16	20	Indoor	C1		BR1620B100
		16	24	Outdoor	C1R		BR1624B100R 4
		20	24	Outdoor	C3R		BR2024B100R 4
		20	20	Indoor	C2		BR2020B100
		16	24	Indoor	C1		BR1624B100
	125	16	24	Indoor	C1	#4-2/0	BR1624B125
		20	24	Indoor	C1		BR2024B125
		20	24	Outdoor	C3R		BR2024B125R 4
		30	30	Indoor	G1		BR3030B125
RH ® 2 kAIC	100	20	24	Indoor	C2	#4-1/0	BR2024H100 ®
NH ⑦	150	8	16	Outdoor	C3R	#2-300 kcmil	BR816B150RF 34
i kAIC		16	30	Indoor	C4		BR1630B150
		20	30	Indoor	C4		BR2030B150
		20	30	Outdoor	D1R		BR2030B150R 4
		20	40	Indoor	D1		BR2040B150
		20	40	Outdoor	D1R		BR2040B150R 4
		24	30	Indoor	G1		BR2430B150
		30	30	Outdoor	G1R		BR3030B150R 4
		30	30	Indoor	G1		BR3030B150
		30	40	Indoor	G1		BR3040B150
	200	4	8	Outdoor	8R	#2-300 kcmil	BR48B200RF 389
		8	16	Outdoor	C3R		BR816B200RF 34
		16	32	Indoor	C4		BR1632B200
		20	40	Outdoor	D1R		BR2040B200R 4
		20	40	Indoor	D1		BR2040B200
		24	40	Indoor	G1		BR2440B200
		30	40	Outdoor	G1R		BR3040B200R @
		30	40	Indoor	G1		BR3040B200
		40	40	Outdoor	L1R		BR4040B200R 4
		40	40	Indoor	L1		BR4040B200
	225	42	42	Indoor	L2	#1-250 kcmil	BR4242B225
		42	42	Outdoor	L2R		BR4242B225R 4

Notes

- ① Combination style covers may be used in surface or flush applications.
- @ Wire range size for BR1020B100SP is #6—#1 Cu/Al.
- Includes through-feed lugs for both phase and neutral conductors.
- @ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to Page V1-T1-60.
- $\ ^{\textcircled{5}}\$ See copper bus offering, Page V1-T1-52.
- ® 22 kAIC series combination rating is obtained when Types BD, BR, BQ, BQC and GFCB 10 kAIC branch breakers are used in series with Type BRH main breaker.
- 25 kAIC series combination rating is obtained when Types BD, BR, BQ, BQC and GFCB 10 kAIC branch circuit breakers are used in series with Type BWH main breaker.
- Supplied with adapter plate to use DS Group1 hubs on Page V1-T1-60. If 2.50-inch (63.5 mm) hub is needed, remove adapter and use ARP00007CH25 hub.

All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with neutral bonding strap preattached. The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment. Ground bar kits priced separately. See **Page V1-T1-60**.

Loadcenters and Circuit Breakers

1.2

Type BR Loadcenters and Circuit Breakers

1

Main Circuit Breaker Loadcenters—10/22 kAIC

B4242DFN

Single-Phase Three-Wire - 120/240 Vac - Insulated/Bondable Split Neutral



Main	Main	Maximun 1-Inch (29	n Number 5.4 mm)			Wire Size Range	Commercial Loadcente Catalog Number ^{①23}	r
Breaker Type	Ampere Rating	Spaces	Circuits	Enclosure Type	Box Size	Cu/Al 60°C or 75°C for Main Breaker	With Flush or NEMA Type 3R Cover	With Surface Cover
DK ④	300	42	42	Indoor	24	(2) #3/0-250 kcmil	BR304242F	BR304242S
	400	42	42	Indoor	24	(2) #3/0-250 kcmil	B4242DFN	B4242DSN
		42	42	Outdoor	47	(2) #3/0-250 kcmil	B4242DR1N ®	_
HLD ®	600	42	42	Indoor	24	(2) #3/0-500 kcmil	B4242EFN	B4242ESN

Notes

- ① Ground bar kits priced separately. See Page V1-T1-60.
- ② The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment.
- 3 Door lock and key included with loadcenter.
- Type DK main circuit breaker is rated 65 kAlC at 240 Vac and allows a 22 kAlC series rating on the panel when Types BR, BD and BJ branch circuit breakers are used.
- © Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to Page V1-T1-60.
- ® Type HLD main circuit breaker is rated 65 kAIC at 240 Vac. Type HLD circuit breaker is not series rated with Types BR, BD and BJ branch circuit breakers.

Box sizes Pages V1-T1-61 through V1-T1-64.

Single-Phase—Main Lug Loadcenters

Single-Phase Three-Wire — 120/240 Vac — Insulated/Bondable Split Neutral

		Main	Maximum 1-Inch (25		Enclosure		Box	Wire Size Range Cu/Al 60°C or 75°C	Loadcenter
		Ampere Rating	Spaces	Circuits	Туре	Trim Type	Size	for Main Lugs	Catalog Number
Surface	Outdoor	70	2	4	Indoor	Surface (no door)	5	#8-#2	BR24L70SP 1)2
			2	4	Indoor	Surface (no door)	5		BR24L70SGP 23
0	100		2	4	Outdoor	_	5R		BR24L70RP 1)2(4)
			2	4	Indoor	Flush (no door)	5		BR24L70FP 12
	1		2	4	Indoor	Flush (no door)	5		BR24L70FGP 26
0 3	-	125	2	4	Indoor	Surface (no door)	6	#14-1/0	BR24L125SP 102
Flush	Outdoor		2	4	Outdoor	_	6R		BR24L125RP 124
0	the state of		2	4	Outdoor	_	6R		BR24L125RSEP 278
			2	4	Outdoor	_	6R		BR24L125RSE2P 267
			2	4	Indoor	Flush (no door)	6		BR24L125FP 1)2
			4	8	Indoor	Surface (no door)	7	#14-1/0	BR48L125SP 109
100			4	8	Indoor	Surface (no door)	7		BR48L125SGP 39
Surface (No Door)		4	8	Outdoor	_	7R		BR48L125RP 149
March College	market and the second		4	8	Indoor	Flush (no door)	7		BR48L125FP 109
			4	8	Indoor	Flush (with door)	7		BR48L125FDP 109
			4	8	Indoor	Flush (no door)	7		BR48L125FGP 39
			6	12	Indoor	Surface (no door)	7	#14#1	BR612L125SP ①⑩
-			6	12	Indoor	Surface (no door)	7		BR612L125SGP ®®
Flush (No	Door)		6	12	Indoor	Surface (with door)	7		BR612L125SDP ①®
			6	12	Indoor	Surface (with door)	7		BR612L125SDGP ®®
1			6	12	Outdoor	_	7R		BR612L125RP ①4.00
	0		6	12	Indoor	Flush (no door)	7		BR612L125FP 1100
			6	12	Indoor	Flush (no door)	7		BR612L125FGP 5:00:00
			6	12	Indoor	Flush (with door)	7		BR612L125FDP ®
Outdoor			6	12	Indoor	Flush (with door)	7		BR612L125FDGP ©®®
Angel Ac	1		8	16	Indoor	Surface (no door)	7	#14#1	BR816L125SP 100
	7		8	16	Indoor	Surface (no door)	7		BR816L125SGP @@
			8	16	Indoor	Surface (with door)	7		BR816L125SDP ①®
4			8	16	Indoor	Surface (with door)	7		BR816L125SDGP @@
	•		8	16	Outdoor	_	7R		BR816L125RP 140
			8	16	Indoor	Flush (no door)	7		BR816L125FP 100
			8	16	Indoor	Flush (no door)	7		BR816L125FGP ©@@
			8	16	Indoor	Flush (with door)	7		BR816L125FDP 100
			8	16	Indoor	Flush (with door)	7		BR816L125FDGP 6 10 12

Notes

- $^{\scriptsize \textcircled{1}}$ Ground bar kits priced separately. See Page V1-T1-60.
 - For 2/4 circuit loadcenters, use GBK5 or GBK520 ground bar.
 - For 4/8, 6/12 and 8/16 circuit loadcenters, use GBK10 ground bar.
 - Ground bars mount to the left side wall of the enclosure for the 4/8, 6/12 and 8/16 circuit loadcenters.
- ② Suitable for use as service equipment when not more than two service disconnecting mains are provided or when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).
- ^③ Ground bar GBK5 is installed.
- Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to Page V1-T1-60.
- $\ ^{\textcircled{\scriptsize 5}}$ CSA and UL approved.
- $\ ^{\circledR}$ Neutral/ground holes (6) #14–6 and (3) #14–2/0 AWG Cu/Al.
- $\ensuremath{\,^{\circlearrowleft}}$ For use as service entrance applications only.
- $^{(8)}$ Neutral/ground holes (6) #14–6 and (3) #14–1/0 AWG Cu/Al.
- Suitable for use as service equipment when not more than two service disconnecting mains are provided or when not more than six service disconnecting mains are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).
- ® Suitable for use as service equipment when a main breaker is used or when not more than six service disconnecting mains are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).
- (1) Ground bar GBK10 is installed.
- @ Ground bar GBK14 is installed.

Box sizes Pages V1-T1-61 through V1-T1-64.

Single-Phase—Main Lug Loadcenters

Single-Phase Three-Wire - 120/240 Vac - Insulated/Bondable Split Neutral, continued

	Main Ampere Rating	Maximum 1-Inch (25.4 Spaces		Enclosure Type	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Lugs	Loadcenter Catalog Number with Combination or NEMA Type 3R Cover ①
BR1224L125	125	12	12	Indoor	B1	#6-2/0	BR1212L125 2345
		12	24	Indoor	B1		BR1224L125 245
		12	24	Indoor	B1		BR1224L125G 245
THE !		12	24	Indoor	B1		BR1224L125DG 2466
		12	24	Outdoor	B1R		BR1224L125R @®7
		16	16	Indoor	B2		BR1616L125 245
		16	24	Indoor	B2		BR1624L125 24
		16	24	Indoor	B2		BR1624L125G 24
		16	24	Outdoor	B2R		BR1624L125R @⑦
		20	20	Indoor	C1		BR2020L125 246
		20	24	Indoor	C1		BR2024L125 24
		20	24	Indoor	C1		BR2024L125G 248
		20	24	Outdoor	C1R		BR2024L125R 20
		24	24	Indoor	C2		BR2424L125 24
		24	24	Indoor	C2		BR2424L125G 248
	150	16	30	Indoor	C2	#1-300 kcmil	BR1630L150 49
		20	30	Indoor	C2		BR2030L150 49
BR1224L200	200	8	16	Outdoor	B2R	#1-300 kcmil	BR816L200RF 5700
-		12	24	Indoor	B2		BR1224L200 @59
		12	24	Outdoor	B2R		BR1224L200R 579
FE		20	40	Indoor	C2		BR2040L200 @ 9
		20	40	Indoor	C2		BR2040L200G 489
		20	40	Outdoor	C3R		BR2040L200R 79
		24	40	Indoor	C4		BR2440L200 4 9
		30	40	Indoor	D1		BR3040L200 @9
		30	40	Indoor	D1		BR3040L200G 489
		30	40	Outdoor	D1R		BR3040L200R 79
		40	40	Indoor	G1		BR4040L200 @9
		40	40	Indoor	G1		BR4040L200G 49
		40	40	Outdoor	G1R		BR4040L200R 73
	225	42	42	Indoor	L1	#1-300 kcmil	BR4242L225 ⁽⁴⁾
		42	42	Outdoor	L1R		BR4242L225R ⑦

Notes

- ① Ground bar kits priced separately unless otherwise noted. See Page V1-T1-60.
- $\,\,^{\textcircled{2}}\,$ Has notch for BREQS125 hold-down kit.
- $\ensuremath{^{\circlearrowleft}}$ Single, movable neutral is provided.
- Combination cover style.
- Suitable for use as service equipment when not more than six main disconnecting means are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).
- [®] Ground bars GBK5 and GBK520 installed.
- ② Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to Page V1-T1-60.
- ® Ground bar GBK1220 installed.
- $\ ^{\textcircled{9}}$ Has notch for BRHDK125 hold-down kit.
- $\ensuremath{\mathfrak{D}}$ Includes through-feed lugs for both phase and neutral conductors.

Single-Phase—Main Lug Loadcenters—400 and 600A

4242DFN





	Maximum 1-Inch (25.				Wire Size Range Cu/Al 60°C or 75°C for Main Lugs	Commercial Loadcente Catalog Number ^{©23}	r
Main Ampere Rating	Spaces	Circuits	Enclosure Type	Box Size		With Flush or NEMA Type 3R Cover	With Surface Cover
400	12	24	Indoor	19	(1) #4/0-750 kcmil	_	1224DSN ®
	12	24	Outdoor	42	or (2) #3/0-400 kcmil	1224DR1N 45	_
	24	42	Indoor	20			2442DSN
	42	42	Indoor	22		4242DFN	4242DSN
	42	42	Outdoor	46		4242DR1N ⁴	_
600	42	42	Indoor	22	(2) #2-500 kcmil	_	4242ESN

Notes

- $^{\scriptsize \textcircled{1}}$ Ground bar kits priced separately unless otherwise noted. See Page V1-T1-60.
- ② Has notch for BRHDK125 hold-down kit.
- ^③ Ground bar GBK8 installed.
- Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to Page V1-T1-60.
- Suitable for use as service equipment when not more than six main disconnecting means are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).

Convertible Loadcenters MCB or MLO—Base Units and Main Devices 10/22/25 kAIC, Complete Assembly Consists of: Loadcenter and Either Main Breaker Kit or Main Lug Kit

Note: Interrupting rating depends on main circuit breaker selected.

BR3040N200





Main	Maximum N 1-Inch (25.4		Enclosure	Box	Wire Size Range Cu/Al 60°C or 75°C	Loadcenter Catalog Number With Combination or NEMA Type 3R Cover ②③	
Ampere Rating ①	Spaces	Circuits	Туре	Size	for Main		
125 ④	12	24	Indoor	B2	See main breaker and	BR1224N125 56	
	12	24	Outdoor	B2R	main lug kit tables Page V1-T1-53.	BR1224N125R 567	
	16	24	Indoor	C1	rugo vi ii oo.	BR1624N125 ^⑤	
	16	24	Outdoor	C1R		BR1624N125R ® 7	
	20	24	Indoor	C2		BR2024N125 ®	
	20	24	Outdoor	C3R		BR2024N125R ® 7	
® 000	8	16	Outdoor	C3R		BR816N200RF 79@2	
	12	24	Indoor	C4		BR1224N200 ®	
	12	24	Outdoor	C3R		BR1224N200R 700	
	16	32	Indoor	C4		BR1632N200 [®]	
	20	40	Indoor	D1		BR2040N200 [®]	
	20	40	Indoor	D1		BR2040N200G ⁽¹⁾	
	20	40	Outdoor	D1R		BR2040N200R 700	
	20	40	Outdoor	D1R		BR2040N200RG ®	
	24	40	Indoor	G1		BR2440N200 ©®	
	30	40	Indoor	G1		BR3040N200 [®]	
	30	40	Indoor	G1		BR3040N200G ®	
	30	40	Outdoor	G1R		BR3040N200R 700	
	30	40	Outdoor	G1R		BR3040N200RG ⁽¹⁾	
	40	40	Indoor	L1		BR4040N200 [®]	
	40	40	Indoor	L1		BR4040N200G ®	
	40	40	Outdoor	L1R		BR4040N200R 700	
	40	40	Outdoor	L1R		BR4040N200RG (1)	

Notes

- $^{\odot}$ The maximum rating of the loadcenter is the main circuit breaker rating when used as service entrance equipment.
- 2 100, 125 and 200A convertible base unit catalog numbers include interior, box and cover only. Main devices and accessories must be ordered separately for field installation. All convertible base units are listed as suitable for use as service entrance equipment when used per Article 384 of the NEC.
- Ground bar kits priced separately except as noted, refer to Page V1-T1-60.
- For main breaker, use Type BR. For main lug use Type BRSF.
- ® BREQS125 hold-down screw comes with loadcenter for back-fed Types BR and BRH main circuit breakers.
- © Convertible to maximum of 100A main circuit breaker and 125A main lug.
- Rainproof loadcenters are furnished with hub closure plates. For rainproof hubs, refer to Page V1-T1-60.
- ® For main breaker, use Type BW or BWH. For main lug, use Type BRL.
- [®] Includes through-feed lugs for both phase and neutral conductors.
- ® No hold-down provisions for back-fed Types BR and BRH main circuit breakers.
- Includes GBK2120 ground bar.
- Insulated/bondable single neutral.

Convertible Loadcenters MCB or MLO—Base Units and Main Devices 10/22/25 kAIC, Complete Assembly Consists of: Loadcenter and Either Main Breaker Kit or Main Lug Kit

Note: Interrupting rating depends on main circuit breaker selected.

BW2200



Main Devices—Two- and Three-Pole Main Circuit Breakers—120/240 Vac or 208Y/120 Vac or 240 Vac

	Wire Size Range	10 kAIC	22/25 kAIC	
Ampere Rating	Cu/Al 60°C or 75°C for Main Breaker	Catalog Number	Catalog Number ^①	
Two-Pol	e			
100	#4-1/0	BR2100	BRH2100	
110	#4-1/0	BR2110	BRH2110	
125	#4-2/0	BR2125	BRH2125	
125	#2-300 kcmil	BW2125	BWH2125	
150	#2-300 kcmil	BW2150	BWH2150	
175	#2-300 kcmil	BW2175	BWH2175	
200	#2-300 kcmil	BW2200	BWH2200	
Three-Po	ole			
100	#1	BR3100	BRH3100	

BRL200



Main Devices—Two- and Three-Pole Main Lug Kits—120/240 Vac or 208Y/120 Vac or 240 Vac

Ampere Rating	Wire Size Range Cu/Al 60°C or 75°C for Main Lugs	Catalog Number
Two-Pole		
125	#6-2/0	BRSF125
150	#1-300 kcmil	BRL200
175	#1-300 kcmil	BRL200
200	#1-300 kcmil	BRL200
Three-Pol	е	
150	#6-3/0	3BRSF150

Main Circuit Breaker with Accessory

Example: BW22005R01 (Put description with catalog number on order. See **Page V1-T1-80**.)

Main Circuit Breaker Loadcenters—Copper Bus 10/22/25 kAIC

BR3030BC100





Main	Main	Maximum Number 1-Inch (25.4 mm)		Enclosure	Box	Wire Size Range Cu/Al 60°C or 75°C	Loadcenter Catalog Number
Breaker Type	Ampere Rating	g Spaces Circuits Type	Туре	Size	for Main Breaker	with Combination Cover 23	
BR	100	20	20	Indoor	C2	#4-1/0	BR2020BC100
10 kAIC		30	30	Indoor	D1	#4-1/0	BR3030BC100
BRH 22 kAIC [®]	100	30	30	Indoor	D1	#4-1/0	BR3030HC100
BWH	150	30	30	Indoor	G1	#2-300 kcmil	BR3030BC150
25 kAIC	200	20	40	Indoor	D1	#2-300 kcmil	BR2040BC200
		30	40	Indoor	G1	#2-300 kcmil	BR3040BC200
		40	40	Indoor	L1	#2-300 kcmil	BR4040BC200

Main Lug Only Loadcenters—Copper Bus

BR816LC125FDP

Single-Phase Three-Wire - 120/240 Vac - Insulated/Bondable Single Neutral with Copper Bus



Main Ampere Rating	Maximum I 1-Inch (25.4 Spaces		Enclosure Type	Trim Type	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Lugs	Loadcenter Catalog Number
125	8	16	Indoor	Surface (with door)	7	#14-1	BR816LC125SDP
	8	16	Indoor	Flush (with door)	7		BR816LC125FDP

Notes

- $^{\odot}$ Series combination rating with Types BD, BR, BQ, BQC and GFCB is 22 kAIC with BRH main and 25 kAIC with BWH main.
- ② All main circuit breaker loadcenters are listed for use as service entrance equipment and are shipped with neutral bonding strap preattached. The maximum rating of the panel is the main circuit breaker rating when used as service entrance equipment.
- 3 Ground bar kits priced separately. See Page V1-T1-60.
- @ 22 kAIC series combination rating is obtained when Types BD, BR, BQ, BQC and GFCB 10 kAIC branch breakers are used in series with Type BRH main breaker.

Box sizes Pages V1-T1-61 through V1-T1-64.