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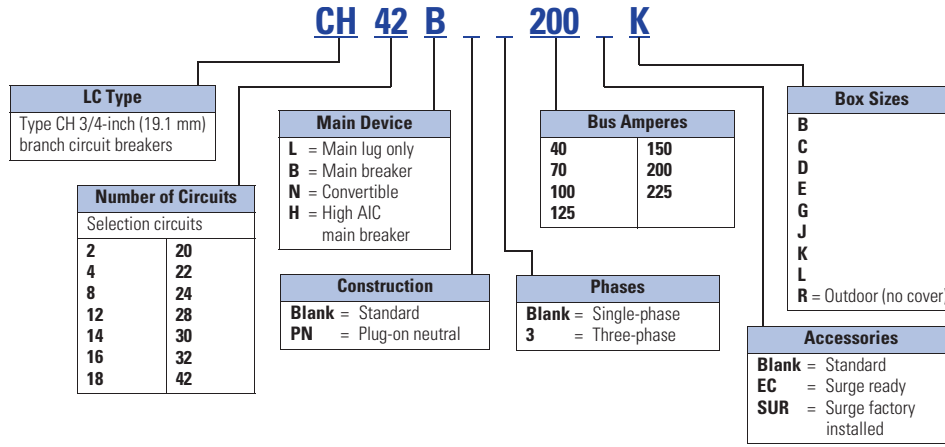
Loadcenters and Circuit Breakers

Type CH Loadcenters and Circuit Breakers

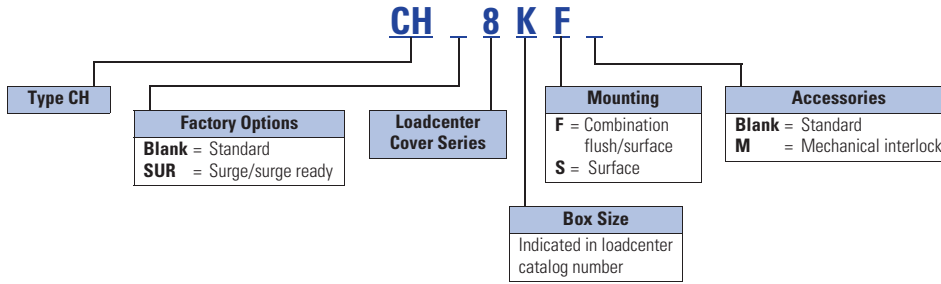
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Catalog Number Selection

Loadcenters 100–225A and 12–42 Circuits



Indoor Covers Ordered Separately



Note: All combinations are not valid, refer to the catalog section.

Product Selection

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

CH42B200K



Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral (Unless Otherwise Noted)

Main Breaker Type	Main Ampere Rating	Maximum Number 3/4-Inch (19.1 mm) of Poles	Enclosure Type	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Breaker	Loadcenter ^{①②} Catalog Number	Loadcenter Cover Catalog Number Combination ^③	Surface	
CH 10 kAIC	100	14	Indoor	B	#6-1/0	CH14B100B ^④	CH8BF	CH8BS	
		14	Outdoor	B	#6-1/0	CH14B100R ^⑤	—	—	
		18	Indoor	C	#6-1/0	CH18B100C ^④	CH8CF	CH8CS	
		18	Outdoor	C	#6-1/0	CH18B100R ^⑤	—	—	
		22	Indoor	C	#6-1/0	CH22B100C ^④	CH8CF	CH8CS	
		22	Outdoor	C	#6-1/0	CH22B100R ^⑤	—	—	
	125	30	Indoor	D	#6-1/0	CH30B100D ^④	CH8DF	CH8DS	
			Outdoor	D	#6-1/0	CH30B100R ^⑤	—	—	
			22	Indoor	C	#6-1/0	CH22B125C ^④	CH8CF	CH8CS
		30	Outdoor	C	#6-1/0	CH22B125R ^⑤	—	—	
			Indoor	D	#6-1/0	CH30B125D ^④	CH8DF	CH8DS	
			Outdoor	D	#6-1/0	CH30B125R ^⑤	—	—	
CSR 25 kAIC	150	8	Outdoor	E	#2-300 kcmil	CH8B150RF ^⑥	—	—	
		24	Indoor	E	#2-300 kcmil	CH24B150E ^④	CH8EF	CH8ES	
		24	Outdoor	E	#2-300 kcmil	CH24B150R ^⑤	—	—	
		32	Indoor	J	#2-300 kcmil	CH32B150J ^④	CH8JF	CH8JS	
		32	Outdoor	J	#2-300 kcmil	CH32B150R ^⑤	—	—	
		200	8	Outdoor	E	#2-300 kcmil	CH8B200RF ^⑥	—	—
	24		Indoor	E	#2-300 kcmil	CH24B200E ^④	CH8EF	CH8ES	
	24		Outdoor	E	#2-300 kcmil	CH24B200R ^⑤	—	—	
	32		Indoor	J	#2-300 kcmil	CH32B200J ^④	CH8JF	CH8JS	
	32		Outdoor	J	#2-300 kcmil	CH32B200R ^⑤	—	—	
	42		Indoor	K	#2-300 kcmil	CH42B200K ^④	CH8KF	CH8KS	
	225	42	Outdoor	K	#2-300 kcmil	CH42B200R ^⑤	—	—	
			32	Indoor	J	#2-300 kcmil	CH32B225J ^④	CH8JF	CH8JS
			32	Outdoor	J	#2-300 kcmil	CH32B225R ^⑤	—	—
		42	Indoor	K	#2-300 kcmil	CH42B225K ^④	CH8KF	CH8KS	
			42	Outdoor	K	#2-300 kcmil	CH42B225R ^⑤	—	—
			DK 10 kAIC	300	Indoor	PM	(2) 3/0-250 kcmil	CH42PM300	CH7PMF ^⑦
	400	Indoor		PM	(2) 3/0-250 kcmil	CH42PM400	CH7PMF ^⑦	CH7PMS	

Notes

- ① All main circuit breaker loadcenters are listed for use as service entrance equipment.
- ② Ground bar kits priced separately. See **Page V1-T1-25**.
- ③ Combination style covers may be used in surface or flush applications.
- ④ Can be top or bottom fed by rotating the enclosure and trim 180 degrees.
- ⑤ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-25**.
- ⑥ Panel includes #4-300 kcmil feed-through lugs.
- ⑦ This cover is for flush applications only (not combination).

Box sizes **Pages V1-T1-27** and **V1-T1-28**.

Single-Phase—High Interrupting Rated Main Circuit Breaker Loadcenters—100 kAIC**Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral**






Main Breaker Type	Main Ampere Rating	Maximum Number 3/4-Inch (19.1 mm) Poles	Enclosure Type	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Breaker	Loadcenter ^① Catalog Number	Loadcenter Cover Catalog Number Combination ^②	Surface
CHB4 100 kAIC ^⑤	100	32	Indoor	L	#6–1/0	CH32H100L ^③	CH8LF	CH8LS
		32	Outdoor	L	#6–1/0	CH32H100R ^④	—	—
CHH 100 kAIC ^⑤	150	32	Indoor	L	#2/0–300 kcmil	CH32H150L	CH8LF	CH8LS
		32	Outdoor	L	#2/0–300 kcmil	CH32H150R ^④	—	—
	200	32	Indoor	L	#2/0–300 kcmil	CH32H200L	CH8LF	CH8LS
		32	Outdoor	L	#2/0–300 kcmil	CH32H200R ^④	—	—
		42	Indoor	L	#2/0–300 kcmil	CH42H200L	CH8LF	CH8LS
		42	Outdoor	L	#2/0–300 kcmil	CH42H200R ^④	—	—
	225	42	Indoor	L	#2/0–300 kcmil	CH42H225L	CH8LF	CH8LS
		42	Outdoor	L	#2/0–300 kcmil	CH42H225R ^④	—	—

Notes

- ① All main circuit breaker loadcenters are listed for use as service entrance equipment.
- ② Combination style covers may be used in surface or flush applications.
- ③ Loadcenter can be top or bottom fed by rotating the enclosure and trim 180 degrees.
- ④ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-25**.
- ⑤ Series rated for 100 kAIC with all Types CH, CHT and CHP breakers.

Single-Phase—Main Lug Loadcenters

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

Surface	Outdoor	Main Ampere Rating	Maximum Number 3/4-Inch (19.1 mm) Space		Enclosure Type	Type of Trim (Included)	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Lugs	Loadcenter Catalog Number
				Poles					
		40	2	4 ^①	Indoor	Surface (no door)	5	#14–6	CH2L40SP ^{②③}
			2	4 ^①	Outdoor	—	5R	#14–6	CH2L40RP ^{②③④}
			2	4 ^①	Indoor	Flush (no door)	5	#14–6	CH2L40FP ^{②③}
		70	2	4 ^①	Indoor	Surface (no door)	5	#14–2	CH2L70SP ^{②③}
			2	4 ^①	Outdoor	—	5R	#14–2	CH2L70RP ^{②③④}
			2	4 ^①	Indoor	Flush (no door)	5	#14–2	CH2L70FP ^{②③}
		125	2	4 ^①	Indoor	Surface (no door)	6	#14–1/0	CH2L125SP ^{②③}
			2	4 ^①	Outdoor	—	6R	#14–1/0	CH2L125RP ^{②③④}
			2	2	Outdoor	—	—	#14–1/0	CH2L125RSE2P ^{④⑤⑥}
			2	4 ^①	Indoor	Flush (no door)	6	#14–1/0	CH2L125FP ^{②③}
			4	8 ^①	Indoor	Surface (no door)	7	#14–1/0	CH4L125SP ^{②⑦}
			4	8 ^①	Outdoor	—	7R	#14–1/0	CH4L125RP ^{②④⑦}
		125	4	8 ^①	Indoor	Flush (no door)	7	#14–1/0	CH4L125FP ^{②⑦}
			6	12 ^①	Outdoor	—	6R	#14–1/0	CH6L125R ^{②⑥⑦}
			8	16 ^①	Indoor	Surface (no door)	7	#6–1/0	CH8L125SP ^{②⑧}
			8	16 ^①	Outdoor	—	7R	#6–1/0	CH8L125RP ^{②⑥⑦}
		125	8	16 ^①	Indoor	Flush (no door)	7	#6–1/0	CH8L125FP ^{②⑧}

Notes

- ① Requires the use of Type CHNT breakers.
- ② Ground bar kits priced separately, see **Page V1-T1-25**
 - For 2/4 and 6/12 circuit loadcenters use Type GBK5 or GBK520 ground bar
 - For 4/8 and 8/16 circuit loadcenters use Type 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
- ③ 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).
- ④ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-25**.
- ⑤ For use as service entrance applications only.
- ⑥ Neutral/ground holes (6) #14–6 and (3) #14–2/0 AWG Cu/Al.
- ⑦ 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).
- ⑧ 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).

Box sizes **Pages V1-T1-27** and **V1-T1-28**.

CH42L225G



Single-Phase Three-Wire—120/240 Vac—Insulated/Bondable Split Neutral—Factory-Installed Ground Bar

Main Ampere Rating	Maximum Number 3/4-Inch (19.1 mm) Poles	Enclosure Type	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Lugs	Loadcenter Catalog Number	Loadcenter Cover Catalog Number	Combination	Surface
125	12	Indoor	B	#6–2/0	CH12L125B ①	CH8BF	CH8BS	
	12	Outdoor	B	#6–2/0	CH12L125R ①②	—	—	
	16	Indoor	B	#6–2/0	CH16L125B ①	CH8BF	CH8BS	
	16	Outdoor	B	#6–2/0	CH16L125R ①②	—	—	
	20	Indoor	C	#6–2/0	CH20L125C ①	CH8CF	CH8CS	
	20	Outdoor	C	#6–2/0	CH20L125R ①②	—	—	
	24	Indoor	C	#6–2/0	CH24L125C ①	CH8CF	CH8CS	
	24	Outdoor	C	#6–2/0	CH24L125R ①②	—	—	
150	24	Indoor	D	#4–300 kcmil	CH24L150D ①	CH8DF	CH8DS	
	24	Outdoor	D	#4–300 kcmil	CH24L150R ②③	—	—	
	32	Indoor	D	#4–300 kcmil	CH32L150D ①	CH8DF	CH8DS	
	32	Outdoor	D	#4–300 kcmil	CH32L150R ②③	—	—	
200	12	Indoor	D	#4–300 kcmil	CH12L200D ①	CH8DF	CH8DS	
	12	Outdoor	D	#4–300 kcmil	CH12L200R ②③	—	—	
	16	Indoor	D	#4–300 kcmil	CH16L200D ①	CH8DF	CH8DS	
	16	Outdoor	D	#4–300 kcmil	CH16L200R ②③	—	—	
225	24	Indoor	D	#4–300 kcmil	CH24L225D ①	CH8DF	CH8DS	
	24	Outdoor	D	#4–300 kcmil	CH24L225R ②③	—	—	
	32	Indoor	D	#4–300 kcmil	CH32L225D ①	CH8DF	CH8DS	
	32	Outdoor	D	#4–300 kcmil	CH32L225R ②③	—	—	
	42	Indoor	G	#4–300 kcmil	CH42L225G ③	CH8GF	CH8GS	
	42	Outdoor	G	#4–300 kcmil	CH42L225R ②③	—	—	
400	42	Indoor	P	(2) 1/0–300 kcmil (1) 750 kcmil	CH42PL400 ④	CH7PF ⑤	CH7PS	

Notes

- ① Suitable for use as service equipment when not more than six disconnecting means are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).
- ② Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-25**.
- ③ Suitable for use as service equipment when a circuit breaker is used as a main breaker. The main breaker is backfed and requires hold-down bracket kit catalog number **CH125RB**.
- ④ Suitable for use as service equipment when a circuit breaker is used as a main breaker. The main breaker is backfed and must be a Type CHB.
The breaker cannot be a Type CH.
- ⑤ This cover is for flush application only (not combination).

Box sizes **Pages V1-T1-27** and **V1-T1-28**.

Convertible Loadcenters MCB or MLO—Base Units and Main Devices—10/25/35 kAIC

Complete assembly consists of: loadcenter, cover, and either main breaker kit or main lug kit.

Indoor—Single-Phase—Three-Wire—120/240V—Insulated/Bondable Split Neutral—Top or Bottom Feed

Maximum Main Ampere Rating	Maximum Number of Single Poles	Box Size	Loadcenter Box and Panel Catalog Number ①	Loadcenter Cover Catalog Number		Main Lug Kit		Main Breaker Kit		Catalog Number	
				Combination	Surface	Wire Size	Catalog Number	kAIC Rating	Wire Size		
125	22	C	CH22N125C	CH8CF	CH8CS	#10–1/0	CHL125N	10	#10–1/0	CH2100N ③ CH2125N ③	
200	32	J	CH32N200J	CH8JF	CH8JS	#4–300 kcmil	CHL225N	25/35 ②	#2–300 kcmil	CSR2125N CSR2150N CSR2175N CSR2200N	CSH2125N ④ CSH2150N ④ CSH2175N ④ CSH2200N ④
225	42	K	CH42N225K	CH8KF	CH8KS	#4–300 kcmil	CHL225N	25/35 ②	#2–300 kcmil	CSR2125N CSR2150N CSR2175N CSR2200N CSR2225N	CSH2125N ④ CSH2150N ④ CSH2175N ④ CSH2200N ④ CSH2225N ④

Outdoor—Single-Phase—Three-Wire—120/240V—Insulated/Bondable Split Neutral (Unless Otherwise Noted)

Maximum Main Ampere Rating	Maximum Number of Single Poles	Box Size	Loadcenter Box and Panel Catalog Number ①	Main Lug Kit		Main Breaker Kit		Catalog Number	
				Wire Size	Catalog Number	kAIC Rating	Wire Size		
125	22	C	CH22N125R ⑤	#10–1/0	CHL125N	10	#10–1/0	CH2100N ③ CH2125N ③	
200	8	E	CH8N200RF ⑥⑦	#4–300 kcmil	CHL225N	25/35 ②	#2–300 kcmil	CSR2125N CSR2150N CSR2175N CSR2200N	CSH2125N CSH2150N CSH2175N CSH2200N
200	32	J	CH32N200R ⑤	#4–300 kcmil	CHL225N	25/35 ②	#2–300 kcmil	CSR2125N CSR2150N CSR2175N CSR2200N	CSH2125N ④ CSH2150N ④ CSH2175N ④ CSH2200N ④
225	42	K	CH42N225R ⑤	#4–300 kcmil	CHL225N	25/35 ②	#2–300 kcmil	CSR2125N CSR2150N CSR2175N CSR2200N CSR2225N	CSH2125N ④ CSH2150N ④ CSH2175N ④ CSH2200N ④ CSH2225N ④

Notes

- ① Panel does not include main. Order main breaker or main lug kit separately.
- ② If 35 kAIC is required, use CSH breaker.
- ③ Hold-down kit included.
- ④ 35 kAIC series combination rating is obtained when Types CH, CHT and CHP branch breakers are used with CSH main.
- ⑤ Rainproof panels are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-25**.
- ⑥ Includes feed-through lugs for both phase and neutral conductors.
- ⑦ Insulated/bondable single neutral.

Interrupting rating depends on main circuit breaker selected.

Three-Phase—Main Circuit Breaker Loadcenters—10 kAIC**CH42B3200L****Three-Phase Four-Wire—208Y/120 Vac or 240 Vac Insulated/Bondable Split Neutral**

Main Breaker Type	Main Ampere Rating	Maximum Number 3/4-Inch (19.1 mm) Poles	Enclosure Type	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Breaker	Loadcenter ^{①②} Catalog Number	Loadcenter Cover Catalog Number	
							Combination	Surface
CC 10 kAIC	150	30	Indoor	L	#1–4/0	CH30B3150L	CH8LF	CH8LS
			Outdoor	L	#1–4/0	CH30B3150R ^③	—	—
	200	30	Indoor	L	#2/0–300 kcmil	CH30B3200L	CH8LF	CH8LS
			Outdoor	L	#2/0–300 kcmil	CH30B3200R ^③	—	—
		42	Indoor	L	#2/0–300 kcmil	CH42B3200L	CH8LF	CH8LS
			Outdoor	L	#2/0–300 kcmil	CH42B3200R ^③	—	—
	225	30	Indoor	L	#2/0–300 kcmil	CH30B3225L	CH8LF	CH8LS
			Outdoor	L	#2/0–300 kcmil	CH30B3225R ^③	—	—
		42	Indoor	L	#2/0–300 kcmil	CH42B3225L	CH8LF	CH8LS
			Outdoor	L	#2/0–300 kcmil	CH42B3225R ^③	—	—
	400	42	Indoor	PM	(2) 3/0–350 kcmil	CH424PM400	CH7PMF ^④	CH7PMS

Three-Phase—High Interrupting Rated Main Circuit Breaker Loadcenters—100 kAIC**Three-Phase Four-Wire—208Y/120 Vac or 240 Vac Insulated/Bondable Split Neutral**

Main Breaker Type	Main Ampere Rating	Maximum Number 3/4-Inch (19.1 mm) of Poles	Enclosure Type	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Breaker	Loadcenter Catalog Number ^{①②}	Loadcenter Cover Catalog Number	
							Combination	Surface
CHH 100 kAIC ^⑤	200	30	Indoor	L	#2/0–300 kcmil	CH30H3200L	CH8LF	CH8LS
			Outdoor	L	#2/0–300 kcmil	CH30H3200R ^③	—	—
		42	Indoor	L	#2/0–300 kcmil	CH42H3200L	CH8LF	CH8LS
			Outdoor	L	#2/0–300 kcmil	CH42H3200R ^③	—	—
	225	42	Indoor	L	#2/0–300 kcmil	CH42H3225L	CH8LF	CH8LS
			Outdoor	L	#2/0–300 kcmil	CH42H3225R ^③	—	—

Notes

- ① All main circuit breaker loadcenters are listed for use as service entrance equipment.
 ② Ground bar kits priced separately. For ground bar kits, see **Page V1-T1-25**.
 ③ Rainproof loadcenters are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-25**.
 ④ This cover for flush application only (not combination).
 ⑤ 100 kAIC series combination rating is obtained when Types CH and CHP branch breakers are used with CHH main.

Three-Phase—Main Lug Loadcenters

Three-Phase Four-Wire—208Y/120 Vac or 240 Vac Insulated/Bondable Split Neutral (Unless Otherwise Noted)

Main Ampere Rating	Maximum Number 3/4-Inch (19.1 mm)		Enclosure Type	Type of Trim Included	Box Size	Wire Size Range Cu/Al 60°C or 75°C for Main Lugs	Loadcenter Catalog Number	Loadcenter Cover Catalog Number	
	Spaces	Poles						Combination	Single
125	6	12 ①	Indoor	Surface, no door	7	#14–1/0	CH6L3125SP ②③④	—	—
	6	12 ①	Outdoor	—	7R	#14–1/0	CH6L3125RP ②③④⑤	—	—
	6	12 ①	Indoor	Flush, no door	7	#14–1/0	CH6L3125FP ②③④	—	—
	12	12	Indoor	—	B	#6–2/0	CH12L3125B ⑥⑦	CH8BF	CH8BS
	12	12	Outdoor	—	B	#6–2/0	CH12L3125R ⑥⑦	—	—
	18	18	Indoor	—	C	#6–2/0	CH18L3125C ⑥⑦	CH8CF	CH8CS
	18	18	Outdoor	—	C	#6–2/0	CH18L3125R ⑥⑦⑧	—	—
	24	24	Indoor	—	C	#6–2/0	CH24L3125C ⑥⑦	CH8CF	CH8CS
150	30	30	Indoor	—	D	#4–300 kcmil	CH30L3150D ⑥⑦	CH8DF	CH8DS
	30	30	Outdoor	—	D	#4–300 kcmil	CH30L3150R ⑥⑦⑧⑨	—	—
225	24	24	Indoor	—	D	#4–300 kcmil	CH24L3225D ⑥⑦	CH8DF	CH8DS
	24	24	Outdoor	—	D	#4–300 kcmil	CH24L3225R ⑥⑦⑧⑨	—	—
	30	30	Indoor	—	D	#4–300 kcmil	CH30L3225D ⑥⑦	CH8DF	CH8DS
	30	30	Outdoor	—	D	#4–300 kcmil	CH30L3225R ⑥⑦⑧⑨	—	—
	42	42	Indoor	—	G	#4–300 kcmil	CH42L3225G ⑥⑧	CH8GF	CH8GS
	42	42	Outdoor	—	G	#4–300 kcmil	CH42L3225R ⑥⑧⑨	—	—
400	42	42	Indoor	—	P	(2) 1/0–300 kcmil (1) 750 kcmil	CH424PL400 ⑩⑪	CH7PF ⑫	CH7PS

Notes

- ① Requires the use of CHNT breakers.
- ② Suitable for use as service equipment when not more than two service disconnecting means are provided or when not more than six service disconnecting means are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).
- ③ Ground bar kits priced separately, see **Page V1-T1-25**.
– Use GBK10 ground bar
– Ground bars mount to the left side wall of the enclosure.
- ④ Insulated/bondable single neutral.
- ⑤ Rainproof loadcenters are furnished with hub closure plates. For rainproof hubs, refer to **Page V1-T1-25**.
- ⑥ Ground bar Type GBK14 is installed.
- ⑦ Suitable for use as service equipment when a circuit breaker is used as a main breaker. The main breaker is backfed and requires hold-down bracket kit catalog number Type **CH125RB**. Suitable for use as service equipment when not more than six service disconnecting means are provided and when not used as a lighting and appliance panelboard (see Article 408.34 of the NEC).
- ⑧ Ground bar Type GBK21 is installed.
- ⑨ Suitable for use as service equipment when a circuit breaker is used as a main breaker. The main breaker is backfed and requires hold-down kit catalog number Type **CH125RB**.
- ⑩ For ground bar kits, see **Page V1-T1-25**.
- ⑪ Suitable for use as service equipment when a circuit breaker is used as a main breaker. The main breaker is backfed and must be a Type CHB. **The breaker cannot be a Type CH.**
- ⑫ This cover for flush application only (not combination).

Box sizes **Pages V1-T1-27** and **V1-T1-28**.