



***GE 8000-Line
Motor Control Centers***

Mains, Feeders, Incoming Lines



MAINS

GENERAL

Main units consist of an externally operable circuit disconnect, either a fusible switch or a circuit breaker. Sizes by ampere rating, short-circuit rating, type construction, and space units required are given in the accompanying lists.

Normally, thermal magnetic circuit breakers or fuses are necessary for main protection. The short-circuit interrupting rating depends on the type disconnect furnished. Select a main unit for which the interrupting rating equals or exceeds the maximum available fault current.

For reverse-fed circuit breakers, refer to factory for details.

Refer to specific breaker publications for time-current characteristics and programmable options for the various types of circuit breakers. A list of these publications is given in Application Data (Section J).

SERVICE ENTRANCE

UL Listed main units containing only circuit breakers or fused switches may be UL classified as suitable for service entrance. If a single disconnect is furnished as a disconnect for all load circuits the unit will be marked "Main."

In order for the units to be classified as suitable for service entrance, the incoming phase conductors must connect directly to the disconnect device line terminals or to a UL listed main line terminal assembly.

A grounding electrode conductor terminal connector sized in accordance with the circuit ampacity is furnished in one section. Three-phase, four-wire systems include a neutral bonding jumper for grounding the neutral conductor during installation. Ground fault protection is required for disconnects 1000A and above for solidly grounded wye services, where phase-to-ground is more than 150 volts (NEC 230-95).

Refer to the factory when ground fault protection or metering is required.

MAIN METERING/LUGS

Line side CTs can be provided in the main compartment for use with a metering unit. This option will add space.

If crimp type lugs are required, a bus assembly is fabricated to provide a landing pad for these terminals. This extends the space required for the main and must be factory installed.

FUSED SWITCH MAINS

Amperes	Interrupting Rating RMS Amps (In thousands) ^③			Construction		Space Units ^④	UL Listed (X)	Notes
	Volts			Stab-	Bolt-			
	240	480	600	In	In			
FUSIBLE SWITCHES								
100 ^⑤	65	65	N/A	X		1½	X	
200	100	100	100	X		2½	X	
400	100	100	100		X	3	X	②⑩
600	100	100	100		X	3	X	②⑩
HIGH PRESSURE CONTACT SWITCH								
800	100	100	100		X	6	X	①
1200	100	100	100		X	6	X	①
1600	100	100	100		X	6	X	⑦
2000	100	100	100		X	6	X	⑧
2500	100	100	100		X	6	X	⑨

- ① Requires a 24-inch wide by 20-inch deep section. Full depth of enclosure is required; rear is not available for back-to-back construction.
- ② Requires additional ½X of mounting space when located at top of section adjacent to 6-inch wireway cover with 2-inch horizontal bus.
- ③ With Class J, R and L fuses.
- ④ Top/bottom entry.
- ⑤ For 600 volt applications or 100k ratings, provide a 200 amp switch with 100A clips. 100A switch can be rated at 100kA with Class J fuses only.
- ⑦ Requires 30-inch wide by 20-inch deep section full depth.
- ⑧ Requires 30-inch wide by 30-inch deep section. Rating based on NEMA 1 enclosure only.
- ⑨ Requires 30-inch wide by 30-inch deep section. Must be NEMA 1 Construction, 80% rated only.
- ⑩ Requires 24-inch wide section if bottom fed incoming line.



Spectra Series™ and 8000-Line Motor Control Centers

Mains, Incoming Lines

CIRCUIT BREAKER MAINS—Standard Selection

Amperes	CB Type	IC (kA)			Stab-In	Bolt-In	Space Units	UL (X) Listed	Notes	Entry Top/Bot
		240V	480V	600V						
SPECTRA THERMAL MAGNETIC										
150	SEL/SEP	65/100	65/100	25/25	X		1½	X		T/B
225	SFL/SFP	65/100	65/100	25/25	X		2	X	⑥	T/B
600	SGL/SGP	65/100	65/100	65/65		X	2	X	①	T/B
1200	SKL	65	65	42		X	2	X	①②⑦	T
1200	SKL	65	65	42		X	6	X	②⑥	B
POWERBREAK® INSULATED-CASE MICROVERSATRIP										
800	TP/THP/SSF	65	65	42		X	6 (24W)	X	③	T/B
1600	TP/THP/SSF	65/100	65/100	42/65		X	6 (30W)	X	④⑩	T/B
2000	TP/THP/SSF	65/100	65/100	42/65		X	6 (30W)	X	⑧⑩	T/B
2500	TP/THP/SSF	65/100	65/100	42/65		X	6 (30W)	X	⑧⑩	T/B
800	TC/THC/SSD	65	65	42	X		6 (30W)	—	⑨⑨	T/B
1600	TC/THC/SSD	65	65	42	X		6 (30W)	—	⑨⑨	T/B
2000	TC/THC/SSD	65	65	42	X		6 (30W)	—	⑨⑨	T/B
CONVENTIONAL, THERMAL MAGNETIC										
150	THED	30	25	18	X		1½	X		T/B
225	THFK	30	25	18	X		1½	X	⑬	T/B
OTHER CIRCUIT BREAKER MAINS										
Amperes	CB Type	IC (kA)			Stab-In	Bolt-In	Space Units	UL (X) Listed	Notes	Entry Top/Bot
		240V	480V	600V						
TRI-BREAK® INTEGRALLY FUSED, THERMAL MAGNETIC										
400	TB4	—	—	100		X	2½	X		T/B
600	TB6	—	—	100		X	2½	X	⑰⑱	T
800	TB8	—	—	100		X	2½	X	⑰⑱	T
LOW-VOLTAGE POWER CIRCUIT BREAKER—AKR MICROVERSATRIP										
800	AKR-30S	22	22	22	X		6	—	⑨⑤	T/B
800	AKR-30H	42	42	42	X		6	—	⑨⑤	T/B
1600	AKR-50	50	50	42	X		6	—	⑨⑤	T/B
1600	AKR-50H	65	65	42	X		6	—	⑨⑤	T/B
2000	AKRT-50H	65	65	42	X		6	—	⑨⑤	T/B
800	AKR70-30S	22	22	22		X	6	—	⑨⑤	T/B
800	AKR70-30H	42	42	42		X	6	—	⑨⑤	T/B
1600	AKR70-50	50	50	42		X	6	—	⑨⑤	T/B
1600	AKR70-50H	65	65	42		X	6	—	⑨⑤	T/B
2000	AKR70-50H	65	65	42		X	6	—	⑨⑤	T/B

- ① Main breaker requires additional ½X of mounting space when located at top of section adjacent to 6-inch wireway cover with 2-inch horizontal bus or 12-inch wireway cover with 4-inch horizontal bus.
- ② When a size 6 or 7 starter is in the motor control center line-up, use a 1200 ampere MicroVersa Trip circuit breaker as a main.
- ③ Requires special section 90-inch high, 24-inch wide, 20-inch deep.
- ④ Requires special section 90-inch high, 30-inch wide, 20 inch deep.
- ⑤ Requires special section 90-inch high, 30-inch wide, 40-inch deep.
- ⑥ Requires full 20" depth of enclosure; rear is not available for back-to-back construction.
- ⑦ Main breaker must be mounted at top of the section and requires full 20" depth of enclosure; rear is not available for back-to-back construction.
- ⑧ Requires special section 90-inch high, 30-inch wide, 30-inch deep.
- ⑨ For UL or service entrance labels provide main breaker in switchboard construction.
- ⑩ NEMA 12; 80% Rating
- ⑪ NEMA 1, 80% Rated Only
- ⑫ 1½ X units are available at 180 Amps Max. Load.
- ⑬ In 8000-Line MCC only.

Data subject to change without notice





FEEDERS

Feeder units consist of an externally operable circuit disconnect, either a fusible switch or a circuit breaker. Thermal magnetic circuit breakers are required unless the feeder supplies a critical circuit, such as a fire pump controller.

Select the fuse or circuit breaker trip rating based on the feeder circuit continuous current rating in accordance with the NEC. Feeder unit short-circuit interruption ratings must equal or exceed the available short-circuit currents.

Note that magnetic only circuit breakers are not approved for use as feeder units.

FUSED SWITCH FEEDERS

Amperes	Interrupting Rating RMS Amps (In thousands)③			Construction		Space Units ⑥	UL Listed (X)	Notes
	Volts			Stab-	Bolt-			
	240	480	600	In	In			
FUSIBLE SWITCHES								
30	100	100	100	X		1/2	-	①②④
60	100	100	100	X		1/2	-	①②④
30	100	100	100	X		1	X	
60	100	100	100	X		1	X	
100⑨	65	65	-	X		1	X	
100⑦	100	100	100	X		1	X	
200	100	100	100	X		2	X	②
400	100	100	100		X	4	X	②
600	100	100	100		X	4	X	②
THPR HIGH PRESSURE CONTACT SWITCH								
800	100	100	100		X	6	X	③
1200	100	100	100		X	6	X	③⑧
1600	100	100	100		X	6	-	③⑧

Note:

- Dual or twin feeder units are not available.

- ① 1/2 space unit feeders with "J" type fuses can be UL labeled. All other type fuses cannot be labeled.
- ② Feeder unit requires additional 1/2X of mounting space when located at top of section adjacent to 6-inch wireway cover with 2-inch horizontal bus or 12-inch wireway cover with 4-inch horizontal bus.
- ③ Requires a 24-inch wide by 20-inch deep section. Full depth of enclosure is required; fear is not available for back-to-back construction.
- ④ When feeder unit requires accessories, the unit height must be minimum of 1 space.
- ⑤ With Class J, R, L fuses.
- ⑥ Top/bottom entry.
- ⑦ Class J fuses only.
- ⑧ See note #6, sheet C-5.
- ⑨ For 600 Volt applications or 100K ratings, provide a 200 amp switch with 100A clips.



Spectra Series™ and 8000-Line Motor Control Centers

Feeders

CIRCUIT BREAKER FEEDERS—Standard Selection

Amperes	CB Type	IC (kA)			Stab-In	Bolt-In	Space Units	UL (X) Listed	Notes	Entry Top/Bot
		240V	480V	600V						
SPECTRA THERMAL MAGNETIC										
100	SEL/SEP	65/100	65/100	25/25	X		1/2	X	①③	T/B
150	SEL/SEP	65/100	65/100	25/25	X		1 1/2	X		T/B
225	SFL/SFP	65/100	65/100	25/25	X		2	X	⑦	T/B
600	SGL/SGP	65/100	65/100	65/65		X	2	X	①	T/B
1200	SKL	65	65	42		X	2	X	② ⑥	T
1200	SKL	65	65	42		X	6	X	④ ⑥	B

CONVENTIONAL, THERMAL MAGNETIC

100	THED	30	25	18	X		1/2	X	①③	T/B
150	THED	30	25	18	X		1	X		T/B
225	THFK	30	25	18	X		1	X	⑧	T/B

OTHER CIRCUIT BREAKER FEEDERS

Amperes	CB Type	ICV (kA)			Stab-In	Bolt-In	Space Units	UL (X) Listed	Notes	Entry Top/Bot
		240V	480V	600V						

LIMITER ASSISTED, THERMAL MAGNETIC

100	THEDL	–	–	100	X		1/2	X	①③	T/B
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TRI-BREAK® INTEGRALLY FUSED, THERMAL MAGNETIC

400	TB4	–	–	100		X	2 1/2	X	①	T/B
600	TB6	–	–	100		X	4	X	⑤	T/B
800	TB8	–	–	100		X	6	X	②④	T/B

- ① Feeder breaker requires additional 1/2X of mounting space when located at the top of section adjacent to 6-inch wireway cover with 2-inch horizontal bus or 12-inch wireway cover with 4-inch horizontal bus.
- ② Must be located at the top of section adjacent to 12-inch wireway cover (minimum) with 2-inch horizontal bus or 18-inch wireway cover with 4-inch horizontal bus.
- ③ When feeder unit accessories are required such as shunt trip, AUX switch, UV release, etc., unit height must be a minimum of 1 space.

- ④ Requires full depth of enclosure; rear is not available for back-to-back construction (20" deep minimum).
- ⑤ Feeder breaker must be mounted at the bottom of the section and requires full depth of enclosure; rear is not available for back-to-back construction.
- ⑥ Feeder units 1000A and over should have ground fault sensing on three-phase, four-wire systems where line to ground voltage is more than 150V
- ⑦ 1 1/2 X units are available at 180 Amp. Max. load.
- ⑧ 8000-Line only.





**OPTIONS FOR MAINS
AND FEEDERS**

ACCESSORIES FOR MOLDED CASE CIRCUIT BREAKERS

Breaker Type	Bell Alarm Switch			Auxiliary Switch or Shunt Strip		Undervoltage Release		Three Coil Shunt Trip		Total Number of Accessories Within Any One Circuit-Breaker
	Mounting Pole ^⑥			Mounting Pole ^⑥		Mounting Pole ^⑥		Mounting Pole ^⑥		
	L	C	R	L	R	L	R	L	R	
THED	UL		UL	UL ^②	UL ^② _③		UL		UL	Any two Except UVR and 3-Coil, Shunt Trip
THFK ^①			UL	UL ^②	UL ^② _④	UL	UL	UL	UL	Any Two
TJK, THJK, TB4		UL		UL ^②	UL ^② _④	UL	UL	UL		Any Two Plus Bell Alarm
TB6, TB8		UL		UL ^②	UL ^② _④	UL	UL	UL		Any Two Plus Bell Alarm

ACCESSORIES FOR SPECTRA MOLDED CASE CIRCUIT BREAKERS

Breaker Type	Bell Alarm	Shunt Trip ^⑨ or Undervoltage Release	Aux. Switch ^⑧	Total # of Accessories
All Spectra	Left Pole	Left Pole	Right Pole	Aux. Switch & Bell Alarm Plus 1 other

ACCESSORIES FOR POWER BREAK® AND LOW VOLTAGE POWER CIRCUIT BREAKERS

Breaker Type	Bell Alarm Switch	Auxiliary Switch	Shunt Trip	Undervoltage Release	Blown Fuse Trip	Electrical Operator	Total No. of Accessories
TP, THP TC, THC	UL	UL ^② _⑤	UL	UL	UL	UL	All ^⑦
All AKR-800, 1600 and 2000 A.	UL	UL ^②	UL	UL	UL	UL	All

- ① UL Listed interrupting capacity with accessories as follows: 10K AIC at 600-volts AC, 22K AIC at 240-and 480-volts AC.
- ② 600 volts AC auxiliary switches are not UL listed.
- ③ Maximum number of SPDT aux. switch elements is 2.
- ④ Maximum number of SPDT aux. switch elements is 4.
- ⑤ Maximum number of SPDT aux. switch elements is 10 when shunt trip is used, 12 without shunt trip.

- ⑥ Pole positions: L=left; C=center; R=right
- ⑦ UVR and blown fuse trip cannot be installed simultaneously.
- ⑧ Aux. Switch available @ 240 V max only.
- ⑨ Shunt trip requires aux. switch (G&K) or bell alarm (E&F) for continuous operation.



Spectra Series™ and 8000-Line Motor Control Centers

Mains, Feeders, Incoming Lines

TERMINALS FOR FIELD WIRING MAINS AND FEEDERS

Terminal Size	Will Accept Wire ^②	
	AWG/MCM ^①	Material
SWITCHES		
30A QMW 60A QMW	14-8 14-2 12-2	Cu-Al Cu Al
100A QMW	14-1/0 12-1/0	Cu Al
200A QMW 400A QMR	6-250 2-600/ 1/0-250 (2/Ph)	Cu-Al Cu-Al Cu-Al
600A QMR	2-600 (2/Ph)	Cu-Al
HPC Switch 800-1600A	300-750 300-800	Cu Al
CIRCUIT BREAKERS		
SE150 15-150A 1 lug	12-3/0	Cu-Al
SF250 70-225A 1 lug	8-350	Cu-Al
SG600 125-600A 1 lug 2 lugs	6-600 2/0-400	Cu-Al Cu-Al
SK1200 300-1200A 3 lugs (800A) 3 lugs 4 lugs	3/0-500 300-750 250-500	Cu-Al Cu-Al Cu-Al
THED THEDL (100A Max) 15-30A 35-60A 70-110A 70-110A 125-150A	14-8 13-3 6-2/0 4-2/0 2-3/0	Cu-Al Cu-Al Cu Al Cu-Al
TFK/THFK 225A Feeder 225A Main	4-300 2-600/ 1/0-250 (2/Ph)	Cu-Al Cu-Al Cu-Al
TJK/THJK 125-400A 250-600A	6-600/ 2/0-250 (2/Ph) 250-300 (2/Ph) 250-500 (2/Ph)	Cu-Al Cu-Al Cu Al

TERMINALS FOR FIELD WIRING MAINS AND FEEDERS

Terminal Size	Will Accept Wire ^②	
	AWG/MCM ^①	Material
CIRCUIT BREAKERS		
TB4 125-400A	6-600 2/0-250 (2/Ph)	Cu-Al Cu-Al
TB6 3---600A	2/0-500 (2/Ph)	Cu-Al
TB8 600-800A	250-500 (3/Ph)	Cu-Al
GROUND LUG	1/0-300	Cu-Al

① Conductor #1 and smaller may be noted 60/75°C. Conductors #0 and larger must be rated 75°C.

② Conductor sizes based on 1/Ph unless otherwise indicated.





Spectra Series™ and 8000-Line Motor Control Centers

Mains, Feeders, Incoming Lines

OPTIONS FOR MAINS AND FEEDERS

ACCESSORIES FOR FUSED SWITCHES

Switch Rating	Auxiliary Contacts			
	1 NO	1 NC	2 NO	1 NO, 1 NC
30	UL	UL	UL	UL
60	UL	UL	UL	UL
100	UL	UL	UL	UL
200	UL	UL	UL	UL
400	UL	UL	UL	UL
600	UL	UL	UL	UL

Note: Aux. contacts listed above are shown with fused switch in the open position.

ACCESSORIES FOR HIGH PRESSURE CONTACT SWITCHES

- Integral ground fault with three-phase sensor adjustable pick-up, adjustable time-delay, test function, mechanical ground fault indicator.
- Integral ground fault with three-phase sensor and relay only (without test function, without indicator).
- Integrally mounted three-phase current sensor and 120 volt AC electric trip only, for use with Ground Break® relay and monitor panel.
- Blown fuse protection (480 volts max.)
- 1,2,3 or 4 SPDT auxiliary switches rate 6 amperes, 240 volts AC.

KEY INTERLOCKING

Provisions for key interlocking can be provided on all circuit breaks and fusible switches. The standard key lock is by Superior Lock Corporation. However, coordination with Kirk key locking will be supplied if necessary. The following information is required when lock coordination is to be provided with other up-stream or down-stream devices remote from the motor control center:

PURCHASED BY _____
 ULTIMATE USER _____
 DESTINATION _____
 LOCK MANUFACTURER _____
 LOCK NUMBER _____
 PURCHASE ORDER NUMBER _____

Note:

- Minimum 12-inch high units are required for key interlocking. UL listed option.

GROUND FAULT PROTECTION

Two types of UL listed ground fault protection can be provided as an option with feeder and main circuit breakers. A shunt trip device is required in the circuit breaker to trip the breaker if a ground fault should occur. Type TGSR ground break protective relaying is recommended for main breaker application. Model #252 ground fault relaying is recommended for most feeder applications. See Components (Section H) for description of both ground fault relay types. A minimum of 12-inch additional space height is required in addition to the standard space height shown for each main feeder unit.

A separate 120-volt source for the shunt trip circuit will decrease the additional space required.

INCOMING LINE TERMINATIONS

The following cable terminal compartments are commonly specified for use in motor control center construction where the main AC power disconnect is located upstream of the motor control center.

For other custom cable termination arrangements refer to Company. The number of cables indicated must be installed to maintain the short-circuit rating.

Incoming Line Cable Assemblies	Terminal Board Space		Cables Per Ph ^②	Wire Size	Fig. No.	UL Listed	Short-Circuit Rating Max.
	Adjacent Wireway						
	6"	12"					
1. 600A Top Entry	12"	6"	2	2-400MCM ^①	1	Yes	65K
	18"	12"	2 or 3	2-600 MCM	1	Yes	65K
2. 600A Bottom Entry	12"	6"	2	2-400 MCM	2	Yes	65K
	18"	12"	2 or 3	2-600 MCM	2	Yes	65K
3. 800 or 1000A Top Entry ^⑥	–	12"	3	2-600 MCM	3	Yes	65K
4. 800 or 1000A Bottom Entry ^⑥	18"	12"	3	2-600 MCM	4 ^③	Yes	65K
5. 1200A Top or Bottom Entry Consists of (2) 600-ampere terminal compartments in adjacent vertical sections. An equal number of cables per phase Must be terminated in each section.	12"	6"	2	2-400 MCM ^①	1,2	Yes	65K
	18"	12"	2	2-600 MCM	1,2	Yes	65K
6. 1200A Top Entry (4" Bus)	–	18"	3	2-600 MCM	5	Yes	65K
7. 1200A Bottom Entry	18"	12"	3	2-600 MCM	4 ^③	Yes	65K
8. 1200/1600A Top Entry	N/A	36" ^④	5	500-1000 MCM	6	Yes	100K
9. 1200/1600A Bottom Entry	N/A	90" ^④	5	500-1000 MCM	6	Yes	100K
10. 2000/2500 Top	N/A	90" ^⑤	8	500-1000 MCM	7	Yes	100K
11. 2000/2500A Bottom	N/A	90" ^⑤	8	500-1000 MCM	7	Yes	100K

- ① Can be increased to 600 MCM when used with a 6-inch high pull box.
- ② Mechanical type Cu/Al lugs furnished for 75°C cable.
- ③ Requires 20-inch deep section (no rear vertical bus).

- ④ Requires 20" deep, 24" wide section.
- ⑤ Requires 22" deep, 40" wide section.
- ⑥ 1200A 2" bus uses a similar TB, except with 4 lugs per phase capability.

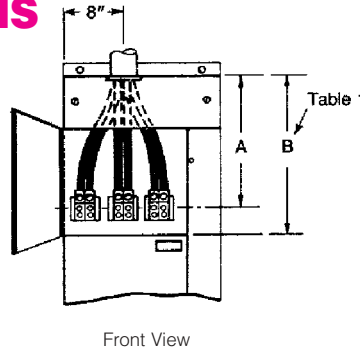


INCOMING LINE TERMINATIONS

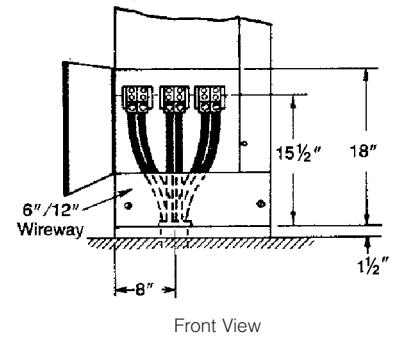
CABLE ASSEMBLIES (Cont'd)

Table 1

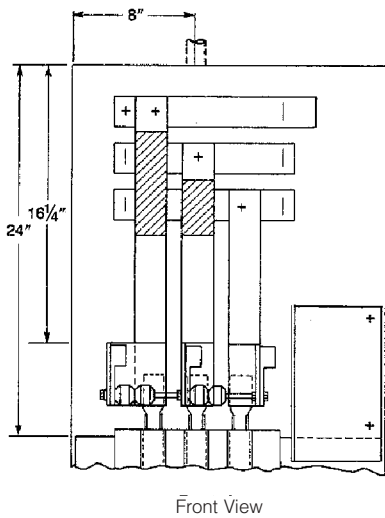
Adjacent Wireway	A	B
6"	15½"	18"
12"	15½"	18"
18"	21½"	24"



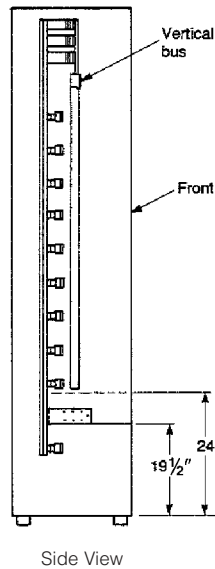
**Fig. 1. 600-ampere (top)
20"/24" W**



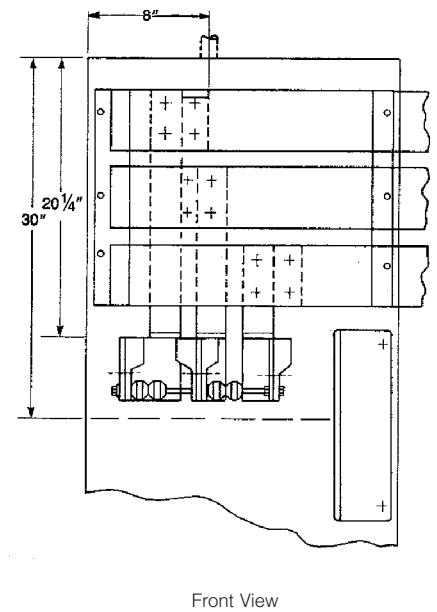
**Fig. 2. 600-ampere (bottom)
20"/24" W**



**Fig. 3. 800/1000/1200(2")-ampere (top)
20" W**



**Fig. 4. 800/1000/1200-ampere (bottom)
20" W**



**Fig. 5. 1200-ampere (top)
20" W**

BUSWAY ENTRANCES

GE motor control centers include provisions for connecting GE busways. Busways must be braced for maximum available short circuit current. Minimum enclosure sizes for busway are shown in the adjacent table. Refer to the factory for other type busway. Include busway requisition number when ordering Motor Control Center.

Spectra Series™ Busway

Entry	Pull Box	Enclosure Size	Max. Busway Ampacity			
			Cu		Al	
			Std	1000A/IN ²	Std	750A/IN ²
Top	12"	20"W x 20"D	1600	1500	1350	1000
Bottom	-	20"W x 20"D	1600	1500	1350	1000
Top	12"	24"W x 22"D	2000	2000	2000	2000
Bottom	-	24"W x 22"D	2000	2000	2000	2000
Top	12"	24"W x 22"D	2500	2500	2500	2500
Bottom	-	24"W x 22"D	2500	2500	2500	2500

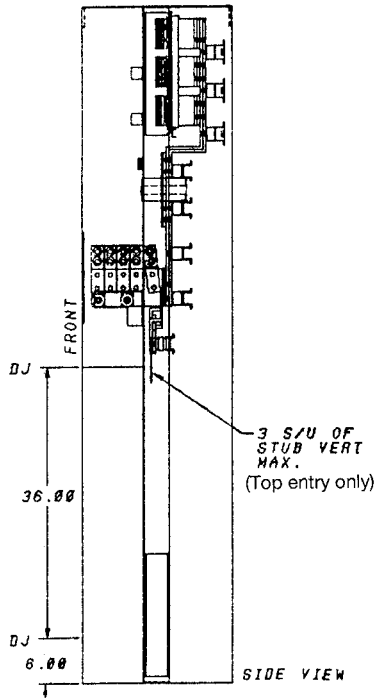
Note:

- Bus bars must be phased front-to-rear in 24-inch width enclosure. Bottom entry requires full section.

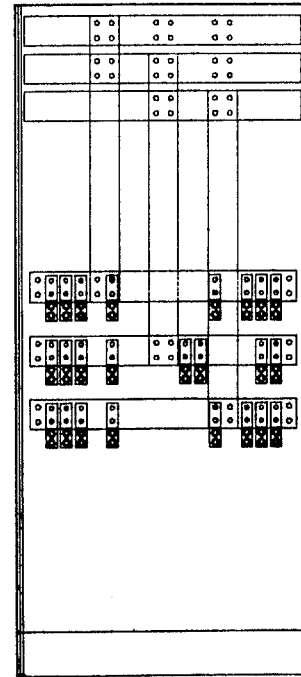




INCOMING LINE TERMINATIONS



**Fig. 6. 1600 ampere (top/bottom)
24" W**



**Fig. 7. 2000/2500-ampere (top/bottom)
40" W, 22" deep**

AUTOMATIC TRANSFER SWITCHES

GE motor control centers may be furnished with transfer switches manufactured by ASCO. The switch is mounted in a separate unit and cable-connected to the motor control center bus. Manual control, pushbuttons, pilot lights and switches may be door- or bracket-mounted within the unit. Up-stream overcurrent protection must be provided for each power source. The unit can be UL Listed if all components are listed for use in motor control center equipments.

The following features apply to ASCO Bulletin 940 open-type switches which are UL Listed through 480 volts AC. For specific ratings and additional optional features refer to ASCO.

- Voltage sensing of normal source
- Voltage sensing of emergency source
- Frequency sensing of emergency source
- Time delay to override momentary outage
- Retransfer to normal time delay
- Emergency generator cool-down time delay
- Transfer to emergency time delay
- Engine control contacts (1 N.O., 1 N.C.) for engine start
- Manual control for testing
- Auxiliary contacts (1 N.O., 1 N.C.)
- Indicating lights—green and red

WITHSTAND CURRENT RATINGS (WCR) FOR ASCO 940 AUTOMATIC TRANSFER SWITCHES

MCC Space Units ^①	MCC Enclosure Widths (In Inches)	Switch Rating (Amps) ^②	Available RMS Symmetrical Amperes at 480 Volts AC			
			When Used with Class J or L Current-Limiting Fuses		When Used with Class RK-5 Fuses or Molded-Case Circuit Breakers	
			WCR	Max. Fuse Size (Amps)	WCR ^③	Max. Breaker Size (Amps)
3	20	30	100,000	60	10,000	50
3	20	70	200,000	200	10,000	150
3	20	100	200,000	200	10,000	150
3	20	150	200,000	450	10,000	225
3	20	260	200,000	600	35,000	600
3	20	400	200,000	600	35,000	600
3	24	600	200,000	1200	50,000	1600
3	24	800	200,000	1200	50,000	1600

① Does not include space for protection; switches must be mounted at bottom of section in order to install vertical bus above switch.

② Larger sizes require special over-size enclosures. Refer to factory.

③ With coordinated GE CB, 70, 100 & 150 amp switches have WCR of 22,000 amps. Likewise, the 400 amp switch has 42,000 amps and 600 & 800 amp switches have 65,000 amp ratings.



INCOMING LINE REACTORS

A section containing three reactors connected ahead of the motor control center bus can be utilized to reduce the available short circuit current at the motor control center. Short-circuit protection for the reactors is normally provided in the up-stream feeder circuit.

Continuous Amps	Enclosure	Comments
600	24"W x 20"D	With main bus. Cable connected from reactor load terminals to main bus.
800	24"W x 20" D	With main bus. Also requires top 24" of adjacent section for cable connections from reactor load terminals to main bus.
1000 & 1200	30"W x 24"D	No main bus. Also requires top 30" of adjacent section for cable connections from reactor load terminals to main bus. Flush rear.

Notes:

- Sections are not UL Listed.
- Incoming power lugs are mounted on the reactor pads. Pads are NEMA drilled.
- Specify the ohms impedance per phase required, continuous current rating, and the available short circuit current (RMS symmetrical) at the reactor load terminals.



TRANSITIONS

Transitions for connecting control centers to General Electric transformers, low-voltage switchgear or switchboards are available and generally the same depth as the equipment to which they are to be connected. Appropriate overcurrent protection for the control center must be provided.