

Panelboards

Section 11

— FE as a main breaker in A-Series™ II Panelboards: Expanding GE's selectivity offering. The FE main breaker in A-Series™ II allows full instantaneous selectivity, which can be coordinated with upstream and downstream GE breakers.

— A-Series™ II Branch Circuit Monitoring (BCM): This new energy management product allows for monitoring key electrical parameters down to a branch circuit level. This product is factory installed which makes for a clean installation and reduced labor in the field.

— AS style A-Series™ II panel: New AE subtype panel, AS, allows for the combination of expanded selectivity and fully rated solution up to 65kAIC at 480V. This solution also decreases overall footprints of our panelboard, which has an important aspect of current day installations.

A-Series™ II Panelboards

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A-Series™ II Panelboards

Applications

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Standards

All GE panelboards meet the latest revision of the following standards.

- National Electrical Code-Ref. Article 384.
- UL67 panelboards: UL50 cabinets and boxes. UL943 GFCI.
- UL489 molded case circuit breakers. UL98 fusible switches.
- cUL listing for Spectra™ Series Power Panelboards.
- CSA Listing for A-Series™ II non-service entrance panelboards
- International Building Code Seismic Zone 3 and 4.
- California Building Code Seismic Zone 4.
- NEMA PB1.
- Federal Specifications
 - Panelboards, W-P-115c.
 - Type 1—Circuit breaker equipped
 - Class 1—Panelboards
 - Class 2—Load centers
 - Molded case circuit breakers, WC-375B/GEN.
 - Fusible switches, W-S-865c.

Application

The following classifications and limitations of panelboards have been established by the Underwriters Laboratories and the National Electrical Code. Note— “an overcurrent protective device is a circuit breaker pole or single fuse”. Panelboards have no fire wall ratings. All 50/60 Hz rated. There is no limitation as to the number and rating of branch circuits, except as determined by available enclosures.

Interrupting Ratings—Circuit Breakers

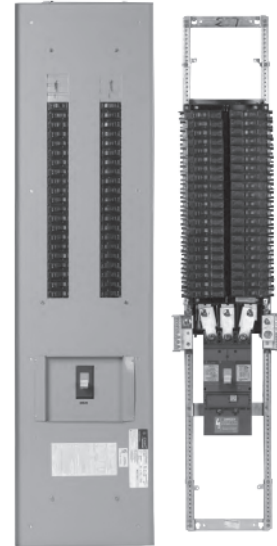
Panelboards have integrated short circuit ratings. When fully rated, the rating is that of the lowest rated device in the panelboard. When series connected rated, the rating is that of the main device in panel (or remote line side protected device) and branch-tested/UL Listed combination.

Short-Circuit Ratings—Fusible Switch Units

The interrupting rating of the fuse must equal or exceed the short-circuit rating of the switch. If it is lower, then the interrupting rating of the switch is the same as the fuse. Switches have no short-circuit rating if renewable fuses are used.

Seismic Ratings

All A-Series™ II Lighting Panels and Spectra™ Power Panels have been tested and certified to meet the International Building Code (IBC) Zone 3 and Zone 4 as well as the California Building Code (CBC) Zone 4.



Features

- Symmetrical design, no required top or bottom mountings
- Wide, easy-to-install galvanized enclosures with removable endwalls
- Flush or surface mounting
- Standard concealed mounting hardware and hinges
- Interiors that allow “straight-in” wiring
- Split neutral
- Field-installable, UL Listed, 200% neutral for non-linear loads
- Branch-bus direct connection
- Captive hardware on branch breakers
- Short circuit ratings allow up to 100KA @ 480Y/277Vac; 200KA @ 240Vac
- Main bus ratings of 125 to 800 amps copper, 125 to 600 amps aluminum
- Spectra RMS and vertically mounted main circuit breakers available
- Bus-connected TVSS for maximum surge protection
- Optional door-in-door or front-hinged-to-box door
- Enclosures available in NEMA Type 1, Type 3R/12, Type 4/4X

Panelboards

A-Series™ II Panelboards

Types

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Type AL

Service Information:

1P, 3W-120/240 Vac
3P, 3W-240 Vac
3P, 4W-240/120 Vac, 208/120 Vac

Mains**Breakers:**

100A-THQB, THHQB, TEY, SE, FE
225A-TQD, THQD, SF, FE
400A-TJD, SG
600A-SG
800A-SK

Main Lug:

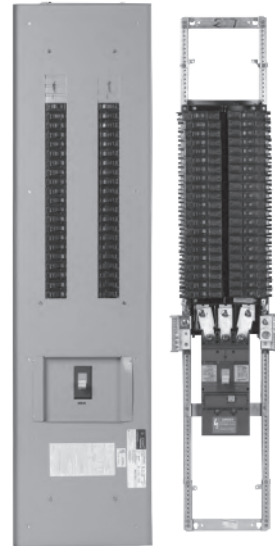
125-800A

Branch Breakers (Plug-in):

Amperage-15-100A
Poles-1, 2, 3
Types-THQL, THHQL, TXQL

Enclosures

Length-25.5, 31.5, 37.5, 43.5, 49.5, 55.5, 64.5, 76.5, 82.5, 88.5
Width-20"
Depth-5.81"



Type AQ

Service Information:

1P, 3W-120/240 Vac
3P, 3W-240 Vac
3P, 4W-240/120 Vac, 208/120 Vac
Fully Rated: 65kAIC at 240V
Series Rated: 200kAIC at 240V

Mains**Breakers:**

100A-THQB, THHQB, TEY, SE, FE
225A-TQD, THQD, SF, FE
400A-TJD, SG, FG
600A-SG
800A-SK

Main Lug:

125-800A

Branch Breakers (Bolt-on):

Amperage-15-100A
Poles-1, 2, 3
Types-THQB, THHQB, TXQB

Enclosures

Length-25.5, 31.5, 37.5, 43.5, 49.5, 55.5, 64.5, 76.5, 82.5, 88.5
Width-20"
Depth-5.81"

Panelboards

A-Series™ II Panelboards

Types

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Type AE (includes subtype AS)

Service Information:

1P, 3W-120/240 Vac, 125/250 Vdc
3P, 3W-240 Vac
3P, 4W-480/277 Vac, 208/120 Vac, 240/120 Vac
Fully Rated: 65kAIC at 480Y/277V, 100kAIC at 240V
Series Rated: 100kAIC at 480V

Mains

Breakers:

100A-TEY, SE, FE
225A-TFJ, SF, FE
400A-TJJ, SG, FG
600A-SG
800A-SK

Main Lug:

125-800A

Branch Breakers (Bolt-on):

Amperage-15-100A
Poles-1, 2, 3
Types-TEY, TEYF, **TEYD, TEYH, TEYL**
Amperage-110A, 125A
Poles-2, 3
Types-TEYD, TEYH, TEYL

Enclosures

Length-25.5, 31.5, 37.5, 43.5, 49.5, 55.5, 64.5, 76.5, 82.5, 88.5
Width-20"
Depth-5.81"

Note: Bold items are features of AS Panels

Type AD

Service Information:

3P, 3W-480 Vac, 600 Vac
3P, 4W-208/120 Vac, 480/277 Vac, 600/347 Vac
Fully Rated: 35kAIC at 600Y/347V, 100kAIC at 480V
Series Rated: 35kAIC at 600Y/347V

Mains

Breakers:

150A-THED, SE
225A-TFJ, SF
400A-TJJ, SG
600A-SG
800A-SK

Main Lug:

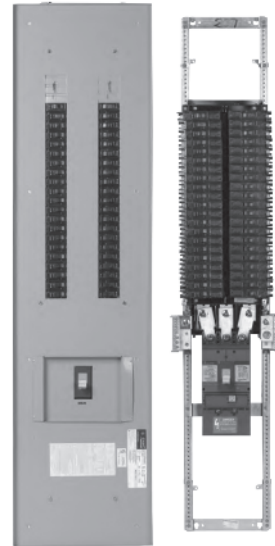
150-800A

Branch Breakers (Bolt-on):

Amperage-15-100A (1P, 2P)
15-150A (3P)
220A Max. double branch
Types-TED, SE, FB

Enclosures

Length-31.5, 37.5, 43.5, 49.5, 55.5, 64.5, 76.5, 82.5, 88.5
Width-20"
Depth-5.81"



Panelboards

Lighting Distribution Panelboards

Types

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Panelboard Types

Item	A-Series™ II				Column Type Panels			Distribution Panels
	AL Page 11-4	AQ Page 11-4	AE/AS Page 11-5	AD/AD Plus Page 11-5	ALC Page 11-9	AQC Page 11-9	AEC Page 11-9	Spectra Page 11-21
Max. Voltage	240Vac	240Vac	480V/277Vac ¹ 125/250Vdc	600Vac	240Vac	240Vac	480/277Vac 125/250Vdc	600Vac 250Vdc
Max. Main Lug Amperes	800A	800A	800A	800A	225A	225A	225A	1200A
Max. Main Breaker or Switch Amperes	800A	800A	800A	800A	225A	225A	225A	1200A
Main Devices	THQB, THHQB, TQD, THQD, TEY, TJD, TFJ		TEY, TFJ, TJJ, TEYF, TEYD, TEYH, TEYL	THED, TFJ, TJJ	THQB, THHQB, TQD, THQD, TEY, TFJ, SE, SF		TEY, TFJ, SE, SF	SF, SG, SK, ADS Switches, FB, FC, FE, FG
Branches Max. Amps	100A	100A	125A	100A-1 ph, 2ph 150A-3 ph	100A	100A	80A-8 1/2 Box 80A-7 1/2 Box	1200A
Branch Devices	THQL, THHQL	THQB, THHQB, TXQB (Bolt-on)	TEY, TEYF, TEYD ⁵ , TEYH ⁵ , TEYL ³	FB, TED, THED, SE	THQL, THHQL	THQB, THHQB, TXQB (Bolt on)	TEY	TED, SE, SF, SG, SK, THQB, THHQB, TEY, TQD, ADS Switches, FB, FC, FE, FG
Subfeeds Max. Amps (100% Rated)	225	225	225	225	150	150	150	—
Subfeed Breaker Types	TQD, THQD	TQD, THQD	TED, TFJ, SE, SF	TED, TFJ, SE, SF	TQD, THQD	TQD, THQD	TED	—

A-Series™ II Standard Main Breaker Types and Ratings

IC Ratings	Voltage	Panel Type														
		AQ/AL					AE					AD / AD Plus				
		100A	225A	400A ³	600A ³	800A ³	150A	225A	400A	600A	800A	150A	225A	400A	600A	800A
10	240	THQB	TQD/TFJ			SKHA8										
22	240	THHQB	THQD	TJD	SGHA6											
65	240	TEY	SFHA	SGHA4	SGHA6		SFHA ⁴		SGHA4 ⁴	SGHA6						
100	240	SEL/TEYL	SFL	SGL	SGL6											
200	240	SEP	SFP	SGPA4												
14 ²	480V/277						TEY ⁴	TFJ ⁴	SGHA/TJJ ⁴	SGHA6	SKHA8	TED	TFJ	TJJ		
35	480V/277											SEHA	SFHA	SGHA4	SGHA6	
18																SKHA8
25							SEHA ⁴ /TEYD	SFHA ⁴				SEHA	SFHA			
65	480V/277						SELA ⁴ /TEYL	SFLA ⁴	SGLA4	SGLA6						
100	480V/277						SEPA ⁴	SFPA				SEPA	SFPA	SGPA4	SGPA6	
14 ²	480											TED	TFJ	TJJ	SGHA6	
65	480											SELA	SFLA	SGLA4	SGLA6	
100	480											SEPA	SFPA	SGPA4	SGLA6	
18 ²	600											THED	TFJ	TJJ	SGHA6	SKHA6
25	600											SELA	SFLA	SGHA4	SGHA6	
35k ²	600V/347											SEPA	SFPA	SGPA4	SGPA6	

¹AE Panels are suitable for use on 3-PH, 3W applications when derived from 3PH, 4W 480V/277 service where the neutral is not connected to the panel. For 3ph-Delta use AD Panels.

²Not series rated.

³Not available in column panelboards.

⁴Light Control Panel ratings.

⁵For installation in AS panels only.

Panelboards

Lighting Distribution Panelboards

Terminal Lugs

Section 11

Molded Case Circuit Breakers

Circuit Breaker Frame					Terminal Lugs (Cu-Al)			
Standard	Hi-Break	Tri-Break™	Current Limiting	High Interrupting	Poles	No. Per Pole	Product Number	Wire—Cu-Al (Unless otherwise noted) Per Lug Range
THQL	TXQL, THHQL	—	—	—	1,2,3	1	Fixed to Breaker Terminal	1 (15-30A) #14-4 Cu or #12-4 Al (35-100A) #14-1/0 Cu or #12-1/0 Al
THQB	TXQB, THHQB	—	—	—	1,2,3			
TEY	—	—	—	—	1,2,3	1		1 (15-25A) #14-#12 Cu or #12-#10 Al (30-60A) #10-#6 Cu or #8-#4 Al (70-100A) #4-#1 Cu or #2-1/0 Al
TEB	—	—	—	—	1,2,3	1	TCAL14	(15-30A, TCAL14) #14-8
TED	THED ¹	—	—	—	1		TCAL12	(30-60A, TCAL12) #14-3 Cu, #12-1 Al
TED4	—	—	—	—	2-3		TCAL12A	(70-90A, TCAL12A) #6-2/0 Cu, #4-2/0 Al
TED6	THED	—	—	—	2-3		TCAL15	(100-150A, TCAL15) #3-3/0
—	—	—	FBV FBN FBH FBL	—	1,2,3	1	FCAL12 FCAL13 FCAL14	(15-20A) #14-#12 Cu or #10-#12 Al (35-60A) #10-#6 Cu or #8-#4 Al (70-100A) #4-#1 Cu or #2-1/0 Al
—	—	—	FCS FCV FCN FCH FCL	—	2,3	1	FCALK12 FCALK13 FCALK14	(15-20A) #14-#12 Cu or #10-#12 Al (35-60A) #10-#6 Cu or #8-#4 Al (70-100A) #4-#1 Cu or #2-1/0 Al
SEDA	SEHA	—	SELA SEPA	—	2-3	1	TCAL18	#12-3/0 Cu, #12-3/0 Al
—	—	—	FES1T FEV1T FEN1T FEH1T FEL1T	—	2-3	1	FCALK15	#12-3/0 Cu, #14-1/0 Al
—	—	—	FES1E FEV1E FEN1E FEH1E FEL1E	—	2-3	1	FCALK15	#12-3/0 Cu, #14-1/0 Al
TQD	THQD	—	—	—	2-3	1	TCAL25	1 #1-300kcmil
SFHA	—	—	SFLA SFPA	—	2-3	1	TCAL29	1 #8-350kcmil
TFJ, TFK	THFK	—	—	—	2-3	1	TCAL24, 26	1 #4-300kcmil
—	—	—	FES2T FEV2T FEN2T FEH2T FEL2T	—	2-3	1	FCALK16	1 #8-250kcmil Cu, #8-250kcmil
—	—	—	FES2E FEV2E FEN2E FEH2E FEL2E	—	2-3	1	FCALK16	1 #8-250kcmil Cu, #8-250kcmil
SGDA	—	—	SGL	—	2	1	TCLK265 ²	— 2(2/0-400kcmil Cu) or 2(2/0-500kcmil Al) or #6-600kcmil
SGHA	—	—	SGP	—	3	1	TCLK365 ²	— 2(2/0-400kcmil Cu) or 2(2/0-500kcmil Al) or #6-600kcmil
—	—	—	FGV2 FGN2 FGH2 FGL2 FGP2	—	2-3	1	FCALK318H	— Top hole #8-400kcmil Cu or #6-500kcmil Al Bottom hole #2/0-600kcmil Cu & Al
—	—	—	FGV4 FGN4 FGH4 FGL4 FGP4	—	2-3	1	FCALK318H	— Top hole #8-400kcmil Cu or #6-500kcmil Al Bottom hole #2/0-600kcmil Cu & Al
—	—	—	FGV6 FGN6 FGH6 FGL6 FGP6	—	2-3	1	FCALK318H	— Top hole #8-400kcmil Cu or #6-500kcmil Al Bottom hole #2/0-600kcmil Cu & Al
TJJ, TJK4	THJK4	TB4	—	—	2-3	1	TCAL43	1 #6-600kcmil or 2-(2/0-250kcmil)
TJD	—	—	—	—	2-3	1	TCAL43	1 #6-600kcmil or 2-(2/0-250kcmil)
TJK6	THJK6, THJ4V	—	—	—	2-3	1	TCAL43	1 #6-600kcmil or 2-(2/0-250kcmil)
—	—	TB6	—	—	3	1	TCAL61	2 2/0-500kcmil
SKHA8 TKM8 ⁴	THKM8	—	—	SKLA8 SKPA8	2-3	1	TCAL41	1 #4-600kcmil or 2-(1/0-250kcmil)
—	—	—	—	—	—	—	TCAL61	2 2/0-500kcmil
—	—	—	—	—	—	—	TCAL81	3 3/0-500kcmil
—	—	—	—	Load End	—	1	TCAL91	3 3/0-500kcmil
—	—	TB8	—	—	3	1	TCAL81	3 3/0-500kcmil
SKHA12, TKM12 ⁴	THKM12	—	—	SKLA12, SKPA12	2-3	1	TCAL81	3 3/0-500kcmil
—	—	—	—	Load End	2-3	1	TCAL121	4 250-350kcmil Cu or 350-500kcmil Al
—	—	—	—	—	2-3	1	TCAL131	4 250-350kcmil Cu or 350-500kcmil Al
—	—	TB1	THLC1	—	3	1	TCAL12 TCAL12A TCAL15	1 (15-60A, TCAL12) #14-#3 Cu or #12-#1 Al (70-100A, TCAL12A) #6-2/0 Cu or #4-2/0 Al (100-150A, TCAL15) #3-3/0 Cu or #1-3/0 Al
—	—	—	THLC2	—	3	1	TCAL27	1 (125-225A, TCAL27) #4-300kcmil
—	—	—	THLC4	TLB4 ⁴	3	1	TCLK43 ³	— 3/0-500kcmil or 2-(3/0-250kcmil)

¹One-pole THED frame available only in 15-30 amp trip.

²Lug kit—includes line or load end cover.

³Three-pole lug assembly suitable for line or load end.

⁴For replacement use only.

ADS Fusible Switch Module Terminations (CU/AL Mechanical)⁵

Amp Rating	Voltage	Wire Size (CU/AL)	# Wires Per Lug	# Lugs Per Phase
30	240/600	#2-#14	1	1
60	240	#2-#14	1	1
60	600	#14-I/O	1	1
100	240/600	#14-I/O	1	1
200	240/600	#6-250kcmil	1	1
400	240/600	I/O-250kcmil or #2-600kcmil	2 or 1	1
600	240/600	I/O-250kcmil or #2-600kcmil	2 or 1	1
800	600	I/O-250kcmil or #2-600kcmil	2 or 1	1
1200	600	I/O-250kcmil or #2-600kcmil	2 or 1	1

⁵For optional mechanical or compression lugs refer to GET-7006.

Panelboards

Lighting Distribution Panelboards

Pricing and Ordering

Section 11

Information Required to Price and Order a Panelboard

- Short-circuit Rating (10kA, 18kA, etc.)
- Service Entrance Label (Yes) or (No)
- Mark(s) (LPA, MDP, RPC, etc.)
- Service (3-ph, 4-w 208Y/120; 3-ph, 3-w 480 volts, etc.)
- Entrance of Incoming Line (Top) or (Bottom).
(Bottom Supplied as Standard)
- Trim (Surface) or (Flush)
- Incoming Wire Size (500kcmil, 250kcmil, etc.)
- Incoming Number of Wires per phase (1, 2, 3, etc.)
- Wire Material (Copper or Aluminum)
- Main Type (Main Lugs Only, Circuit Breaker, Fusible Switch, etc.)
- Amperage of Main Bus
- Frame of Main Circuit Breaker (SG, SK, TJK, etc.) (if applicable)
- Options to Mains (Shunt Trip, Lighting Contactor, etc.)
- Equipment Ground (Optional)
- Branches
 - Amp Rating (20, 30, 50, etc.)
 - Poles (1, 2, or 3)
 - Frame (THQB, TED, etc.)
 - Quantity (1, 10, 15, etc.)
- Options:
 - Interior (Copper bus, 200% rated neutral, etc.)
 - Box (Painted, Increased Gutter, etc.)
 - Front (Door in Door, etc.)
 - Ground Fault Protection (Yes) or (No)
- Type of Panel (AQ, AE, Spectra™ Bolt-on, etc.)

How to Price Factory Assembled Panelboards

Main Price (or Interior Price for A-Series™ II) + Branch Circuits + Options = Total List of Panelboard. The sum of these list prices is the total list for the complete panelboard including box and front.

Please refer to Speedi for quoting, pricing and ordering GE panels

How to Lay Out Factory Assembled Panelboards

- Multi-section panels must have a main circuit breaker or main lugs in each section. Double (dual) main lugs or thru-feed lugs must be added as required in all but the last section.

Please refer to Speedi for quoting, pricing and ordering GE panels

How to select a Pro-Stock, unassembled panelboard

Total the following components:

- Interior
- Box (add ground bars as required)
- Front
- Main breaker or lug kit
- Subfeed breaker or feed thru lug kit (if required)
- Branch Breakers (from Section 3)
- Accessories (200% neutral, service entrance etc.)

Please consult your local distributor for net pricing and current stock levels.

For additional details on selecting Pro-Stock panelboards, please refer to publication DEP-104.

Panelboards

A-Series™ II Panelboards

Column Panels

Section 11

Type ALC

Service Information:

1P, 3W-120/240 Vac
3P, 4W-208/120 Vac, 480/277 Vac
3P, 4W-240 Vac

Mains**Breakers:**

100A-THQB, THHQB, TEY, SE
225A-TQD, THQD, SF

Main Lug:

125-225A

Branch Breakers (Plug-in):

Amperage-15-100A (1P, 2P, 3P)
Types-THQL, THHQL, TXQL

Enclosures

Length-37.5, 43.5, 49.5, 55.5, 64.5, 76.5
Width-8.62"
Depth-5.81"

Type AEC

Service Information:

3P, 4W-480/277 Vac

Mains**Breakers:**

100A-TEY, SE
225A-TFJ, SF

Main Lug:

125-225A

Branch Breakers (Bolt-on):

Amperage-15-80A (1P, 2P, 3P)
Types-TEY

Enclosures

Length-37.5, 43.5, 49.5, 55.5, 64.5, 76.5
Width-8.62"
Depth-5.81"

Type AQC

Service Information:

1P, 3W-240/120 Vac
3P, 3W-240 Vac
3P, 4W-240 Vac

Mains**Breakers:**

100A-THQB, THHQB, TEY, SE
225A-TQD, THQD, SF

Main Lug:

125-225A

Branch Breakers (Bolt-on):

Amperage-15-100A (1P, 2P, 3P)
Types-THQB, THHQB, TXQB

Enclosures

Length-37.5, 43.5, 49.5, 55.5, 64.5, 76.5
Width-8.62"
Depth-5.81"

Panelboards

A-Series™ II Panelboards

Column

Field Installed Kits/Replacement Parts

Section 11

Miscellaneous Kits

Order by Product Number from the National Service Center

Description	Product Number
Equipment Grounds:	
Standard Terminal Strip With Provision for (11) 14-8 Cu or 12-8 Al (3) 14-4 Cu or 6-4 Al	TGL2
Above terminal with Copper Strap	TGC2
Main Lug 6-2/0 Cu/Al	TGL20
Standard Isolated Insulated (11) 14-8 Cu or 12-8 Al (3) 14-4 Cu or 6-4 Al	EGS12
Above terminal with Copper Strap	EGC12
Handle Locking Devices:	
THQL, THHQL THQB, THHQB	THL103
TEY	TEYLD1
TED	TLD3
TFJ, TFL, TLB4	TFKLD1
Padlocking Devices:	
THQL, THHQL, TXQL THQB, THHQB, TXQB	THP100
TEY	TEYPLD1
TED, TEL	TEFPLD1
TQD	TQDPLD1
TFJ, TFL	TFKPLD1
Filler Plate for Q Line and TEY Breakers	TQLFP1
Gasketing Kit	AGSK
Safety Catch for Trough Covers ¹	ACHK

¹Standard on pull box.

Panelboards Parts

Order from Factory

Description	Product Number
Directory Card	139C5612P2
Circuit Numbering	
Strips - 1-48	569B806G1
43-84	569B806G2
Directory Card Holder	139C5491P4

Permanent Circuit Number Kits

Order from Factory

Product Number	Description
APN48	No's 1-48
APN84	No's 43-84

Panelboards

A-Series™ II Panelboards

Pro-Stock, Unassembled Lighting Panels

100-600A

240 Vac 1 or 3 Phase or 480Y/277 Vac 3 Phase

Order by Product Number from the Customer Service Center

① Select Interior

Select the interior by bus type, panel rating and number of circuits. Identify the box/front height for use in Steps 2 and 3.

Copper Bus

Voltage	Rating (Amps)	No. of Circuits	Feed-thru		Non Feed-thru		TGL2 Ground Bars ^{2,3}
			Product Number ¹	Box/Front Height	Product Number ¹	Box/Front Height	
240 Vac, 1 Phase	100-225	18	AQU1182RCXAXT1B4	37.5"	AQU1182RCXAXB4	31.5"	2
		30	AQU1302RCXAXT1B4	43.5"	AQU1302RCXAXB4	37.5"	3
		42	AQU1422RCXAXT1B4	49.5"	AQU1422RCXAXB4	43.5"	4
	400	18	AQU1184RCXAXT1B4	64.5"	—	—	2
		42	AQU1424RCXAXT1B4	76.5"	AQU1424RCXAXB4	64.5"	4
		600	AQU1186RCXAXT1B4	64.5"	—	—	2
208/120 Vac, 3 Phase	100-225	18	AQU1426RCXAXT1B4	76.5"	AQU1426RCXAXB4	64.5"	4
		30	AQU3182RCXAXT1B4	37.5"	AQU3182RCXAXB4	31.5"	2
		42	AQU3302RCXAXT1B4	43.5"	AQU3302RCXAXB4	37.5"	3
	400	18	AQU3422RCXAXT1B4	49.5"	AQU3422RCXAXB4	43.5"	4
		42	AQU3184RCXAXT1B4	64.5"	—	—	2
		600	AQU3424RCXAXT1B4	76.5"	AQU3424RCXAXB4	64.5"	4
480/277 Vac, 3 Phase	100-225	18	AQU3186RCXAXT1B4	64.5"	—	—	2
		42	AQU3426RCXAXT1B4	76.5"	AQU3426RCXAXB4	64.5"	4
		600	AQU3182RCXAXT1B4	37.5"	AQU3182RCXAXB4	31.5"	2
	400	30	AQU3302RCXAXT1B4	43.5"	AQU3302RCXAXB4	37.5"	3
		42	AQU3422RCXAXT1B4	49.5"	AQU3422RCXAXB4	43.5"	4
		600	AQU3184RCXAXT1B4	64.5"	—	—	2

Aluminum Bus

Voltage	Rating (Amps)	No. of Circuits	Feed-thru Product Number ¹	Box/Front Height	TGL2 Ground Bars ^{2,3}
240 Vac, 1 Phase	100-225	18	AQU1182RCXAXT1	37.5"	2
		30	AQU1302RCXAXT1	43.5"	3
		42	AQU1422RCXAXT1	49.5"	4
208/120 Vac, 3 Phase	100-225	18	AQU3182RCXAXT1	37.5"	2
		30	AQU3302RCXAXT1	43.5"	3
		42	AQU3422RCXAXT1	49.5"	4
480/277 Vac, 3 Phase	100-225	18	AQU3182RCXAXT1	37.5"	2
		30	AQU3302RCXAXT1	43.5"	3
		42	AQU3422RCXAXT1	49.5"	4

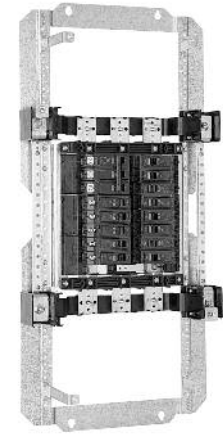
TGL20 Ground Lug Quantities

Interior Type	No. of TGL20s Required by Panel Rating		
	100A-225A	400A	600A
Main Lug Only	1	1	2
Main Lug and Feed-thru	2	2	4
Main Breaker Only	1	1	1
Main Breaker and Sub-feed	1	1	1
Main Breaker and Feed-thru	2	2	3

¹For CSA label, add "M8" suffix to product number.

²For TGL20 ground lug quantities, see TGL20 Ground Lug Quantities table above.

³For isolated ground, use EGS12. When using the EGS12, 3, 5 and 7 ground lugs (TGL20s) are required for 18, 30 and 42 circuits respectively.



Panelboards

A-Series™ II Panelboards

Pro-Stock, Unassembled Lighting Panels

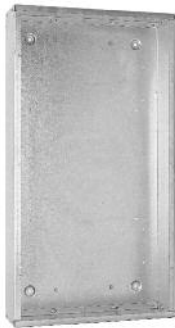
Section 11

2 Select Box

Select a box of the correct height (see Step 1). Boxes come with blank endwalls.
If endwalls with knockouts are required, also order knockout endwall kit AKEW2.

Box Height	NEMA 1	NEMA 1	NEMA 3R		NEMA 4, 4X & 12 Painted Galvaneal	NEMA 4, 4X & 12 Painted Galvaneal	NEMA 4, 4X & 12 Stainless Steel	
	20" Wide	30" Wide	20" Wide	30" Wide	20" Wide	30" Wide	20" Wide	30" Wide
25.5"							AB254S	AB254DWS
31.5"	AB31B	AB31BW	AB313	AB31BW	AB314	AB314W	AB314S	AB314DWS
37.5"	AB37B	AB37BW	AB373	AB37BW	AB374	AB374W	AB374S	AB374DWS
43.5"	AB43B	AB43BW	AB433	AB43BW	AB434	AB434W	AB434S	AB434DWS
49.5"	AB49B	AB49BW	AB493	AB49BW	AB494	AB494W	AB494S	AB494DWS
55.5"	AB55B	AB55BW	AB553	AB553W	AB554	AB554W	AB554S	AB554DWS
64.5"	AB64B	AB64BW	AB643	AB64BW	AB644	AB644W	AB644S	AB644DWS
76.5"	AB76B	AB76BW	AB763	AB76BW	AB764	AB764W	AB764S	AB764DWS

¹For CSA label, add "A" suffix to product number.



NEMA 1



NEMA 3R



NEMA 4, 4X & 12 Galvaneal Painted
or 316 Stainless Steel

3 Select Front

Select a front of the correct height (see Step 1).

Front Height	Standard (20" wide)		Door Within Door (20" wide)		Front Hinged To Box (20" wide)		Standard (30" Wide)	
	Flush ¹	Surface ¹	Flush ¹	Surface ¹	Flush ¹	Surface ¹	Flush ¹	Surface ¹
31.5"	AF31F	AF31S	AF31FP	AF31SP	AF31FD	AF31SD	AF31FW	AF31SW
37.5"	AF37F	AF37S	AF37FP	AF37SP	AF37FD	AF37SD	AF37FW	AF37SW
43.5"	AF43F	AF43S	AF43FP	AF43SP	AF43FD	AF43SD	AF43FW	AF43SW
49.5"	AF49F	AF49S	AF49FP	AF49SP	AF49FD	AF49SD	AF49FW	AF49SW
55.5"	AF55S	AF55S	AF55FP	AF55SP	AF55FD	AF55SD	AF55FW	AF55SW
64.5"	AF64F	AF64S	AF64FP	AF64SP	AF64FD	AF64SD	AF64FW	AF64SW
76.5"	AF76F	AF76S	AF76FP	AF76SP	AF76FD	AF76SD	AF76FW	AF76SW
82.5"	AF82F	AF82S	AF82FP	AF82SP	AF82FD	AF82SD	AF82FW	AF82SW
88.5"	AF88F	AF88S	AF88FP	AF88SP	AF88FD	AF88SD	AF88FW	AF88SW

¹For CSA label, add "A" suffix to product number.



Door Within Door



Standard



Front Hinged to Box

Panelboards

A-Series™ II Panelboards

Pro-Stock, Unassembled Lighting Panels

Section 11

④ Select Main and/or Sub-feed Breaker Kit

Select main breaker kit appropriate for your interior type (see Step 1), amp rating and kAIC rating. If a sub-feed breaker is required, repeat the selection process.

Note: 400A and 600A breaker kits cannot be used for sub-feed applications in Pro-Stock panelboards.

For additional details, see Section 6 of the BuyLog.

Interior Type	Product Number ¹	Rating Amps	No. of Poles	Breaker Rating (kAIC)							
				10	14	22	25	65	100	200	
AQU1: 240 VAC 1 Phase	MB612	100	2	THQB		THHQB					
	MB614	100	4	(2) THQB		(2) THHQB					
	MB512	225	2	TQD		THQD					
	MB332	400	2					SGHA	SGLA	SGPA	
	MB331WB	400	3					SGDA+Kit			
	MB335WB	400	2					SGDA+Kit			
	MB334WB	400	3					SGDA+Kit			
	MB336WB	400	2					SGDA+Kit			
	MB332	600	2					SGHA	SGLA	SGPA	
	MB332WB	600	2					SGHA+Kit			
AQU3: 208/120 VAC, 3 Phase	MB613	100	3	THQB		THHQB					
	MB616	100	6	(2) THQB		(2) THHQB					
	MB513	225	3	TQD		THQD					
	MB516	400	6	(2) TQD		(2) THQD					
	MB233	225	3					SFHA	SFLA	SFPA	
	MB233WB	225	3					SFHA+Kit			
	MB2332 ⁵	400	6 ⁵					2nd SFHA			
	MB2332WB ⁵	400	6 ⁵					2nd SFHA+Kit			
	MB333	400	3					SGHA	SGLA	SGPA	
	MB331WB	400	3					SGDA+Kit			
	MB335WB	400	2					SGDA+Kit			
	MB334WB	400	3					SGDA+Kit			
	MB336WB	400	2					SGDA+Kit			
	MB333	600	3					SGHA	SGLA	SGPA	
		MB333WB	600	3					SGHA+Kit		
AEU3: 480/277 Vac, 3 Phase	MB423	100	3		TEY						
	MB426	100	6		(2) TEY						
	MB133	150	3		TED ²	THED					
	MB133	150	3			SEHA	SELA	SEPA			
	MB133WB	150	3			SEHA+Kit					
	MB233	225	3			SFHA ⁴	SFLA	SFPA			
	MB233WB	225	3			SFHA+Kit ⁴					
	MB2332 ⁵	400	6 ⁵			2nd SFHA ⁴					
	MB2332WB ⁵	400	6 ⁵			2nd SFHA+Kit ⁴					
	MB333	400	3			SGHA ⁴	SGLA	SGPA			
	MB334WB	400	3			SGDA+Kit					
	MB336WB	400	2			SGDA+Kit					
	MB333	600	3			SGHA ⁴	SGLA	SGPA			
		MB333WB	600	3			SGHA+Kit ⁴				

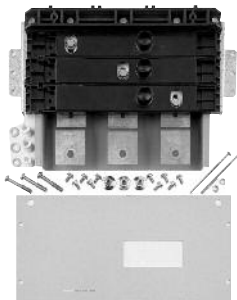
¹Breaker not included except for "WB" kits (where product number ends in "WB"). "WB" kits include a breaker, mounting kit and load-side lugs. Rating plugs must be ordered separately.

²Actual breaker rating is 18kAIC.

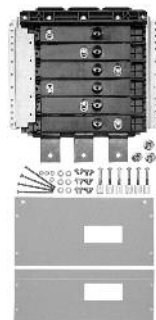
³Actual breaker rating is 30kAIC.

⁴Actual breaker rating is 35kAIC.

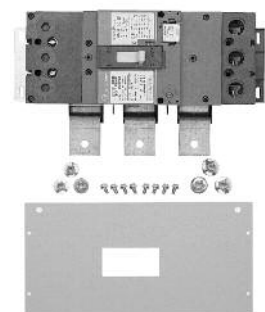
⁵To achieve 6 poles of subfeed, the MB233WB or MB233 kit is also required. 6 poles of subfeed only work with 400A and 600A interiors.



MB513 Breaker Kit



MB516 6-Pole Breaker Kit



MB233WB "WB" Breaker Kit

Panelboards

A-Series™ II Panelboards

Pro-Stock, Unassembled Lighting Panels

Section 11

5 Typical Main Breakers

- Skip Step 5 if you selected a main breaker kit ending in “WB” — no breaker is required.
- To correlate breaker types with the kAIC rating in specific panelboards, see the table for Step 4. For more rating details, see A-Series™ II Lighting Panels Rating Series Labels (DEH-40007).

- All TQD and Spectra™ main breakers require line-side lugs.
- For TEY and THQB main breakers, see branch breakers tables in Step 7.

Digital, Solid State Spectra™ RMS Breakers (3-pole) For use with appropriate main breaker kit (see Step 4).

Breaker			Rating Plug ¹		Terminal Lugs for Front Connection ²	
Poles	Current Sensor	Product Number	Amp Rating	Product Number	Product Number	Wire Range (Cu/Al)
3	100	SEDA36AT0100	100	SRPE100A100	TCAL18	#12-3/0
		SEHA36AT0100				
		SELA36AT0100				
		SEPA36AT0100				
	150	SEDA36AT0150	110	SRPE150A110	TCAL29	#8-350 MCM
		SELA36AT0150	125	SRPE150A125		
		SEPA36AT0150	150	SRPE150A150		
			70	SRPF250A70		
	250	SFHA36AT0250 SFLA36AT0250 SFPA36AT0250	90	SRPF250A90	TCLK365	Al: (2) 2/0-500 MCM or (1) #6-600 MCM Cu: (2) 2/0-400 MCM or (1) #8-600 MCM
			100	SRPF250A100		
			110	SRPF250A110		
			125	SRPF250A125		
			150	SRPF250A150		
			175	SRPF250A175		
			200	SRPF250A200		
			225	SRPF250A225		
3	400	SGHA36AT0400	125	SRPG400A125	TCLK365	
		SGLA36AT0400	150	SRPG400A150		
		SGPA36AT0400	175	SRPG400A175		
			200	SRPG400A200		
2	400		225	SRPG400A225	TCLK265	
		SGHA26AT0400	250	SRPG400A250		
		SGLA26AT0400	300	SRPG400A300		
		SGPA26AT0400	350	SRPG400A350		
3	600		400	SRPG400A400	TCLK365	
		SGLA36AT0600	250	SRPG600A250		
		SGPA36AT0600	300	SRPG600A300		
			350	SRPG600A350		
2	600		400	SRPG600A400	TCLK265	
		SGLA26AT0600	500	SRPG600A500		
		SGPA26AT0600	600	SRPG600A600		

¹Any rating plug within a given current sensor group may be paired with any breaker in that group.

²Except for “WB” kits, lugs must be ordered separately for Spectra™ breakers. All Spectra™ breakers also require an appropriate rating plug.

Main or subfeed breakers for use with AQ panels (208/120 Vac 3-phase or 240 Vac single phase). See Step 4.

Amp Rating	2-pole		3-pole	
	10kAIC	22kAIC	10kAIC	22kAIC
	Product ³ Number	Product Number	Product ³ Number	Product Number
100	TQD22100X2	THQD22100X2	TQD32100X2	THQD32100X2
125	TQD22125X2	THQD22125X2	TQD32125X2	THQD32125X2
150	TQD22150X2	THQD22150X2	TQD32150X2	THQD32150X2
175	TQD22175X2	THQD22175X2	TQD32175X2	THQD32175X2
200	TQD22200X2	THQD22200X2	TQD32200X2	THQD32200X2
225	TQD22225X2	THQD22225X2	TQD32225X2	THQD32225X2
250	—	TJD422250L2	—	TJD432250L3
300	—	TJD422300L2	—	TJD432300L3
350	—	TJD422350L2	—	TJD432350L3
400	—	TJD422400L2	—	TJD432400L3

Main or subfeed breakers for use with AE panels (480/277 Vac 3-phase). See Step 4.

Amp Rating	3-pole		
	18kAIC	22kAIC	30kAIC
	Product Number	Product Number	Product Number
100	TED134110WL	THED134110WL	MB233WB
125	TED134125WL	THED134125WL	MB233WB
150	TED134150WL	THED134150WL	MB233WB
175	—	—	MB233WB
200	—	—	MB233WB
225	—	—	MB233WB
250	—	—	TJJ436250L3
300	—	—	TJJ436300L3
350	—	—	TJJ436350L3
400	—	—	TJJ436400L3

³Any load-side lugs on TQD breakers must be removed before assembly. TQD breakers with X2 product number suffix feature line-side lugs only.

Panelboards

A-Series™ II Panelboards

Pro-Stock, Unassembled Lighting Panels

Section 11

⑥ Select Main Lug Kit and Accessories

Select lug kit(s) for main lug and/or feed-thru applications, if required. (All lugs are suitable for interiors with either copper or aluminum bus.) Also select any accessories required.



Main Lug Kits

Lug Type	Amp Rating	Standard		Oversized		200% Neutral
		Product Number	Wire Range	Product Number	Wire Range	Product Number
Pressure	225	MLA1	6-350 MCM	MLA2	1-600 MCM or (2) 1/0-250 MCM	NKA
	400	MLA41	2-600 MCM or (2) 1/0-250 MCM	MLA62	3/0-800 MCM	NKA4 ²
	600	MLA61	(2) 2/0-500 MCM	MLA62	3/0-800 MCM	-
Copper	225	MLR1	4-450 MCM	MLR2	1-600 MCM	NKR
	400	MLR41	1-600 MCM	MLR61	(2) 2/0-500 MCM	NKR4
	600	MLR61	(2) 2/0-500 MCM	-	-	-
Compression	225	MLT1	2/0-300 MCM	MLT2	4/0-500 MCM	NKT
	400	MLT42	250-600 MCM	MLT41	500-750 MCM ¹	NKT4
Dual	225	MLA2	2-600 MCM or (2) 1/0-250 MCM	-	-	-
Main	400	MLA61	(2) 2/0-500 MCM	-	-	-

¹500 MCM Cu, 750 MCM Al.

²For 200% neutral feed-thru, order NKA4FT, (GO-101P). Wire range (2) 2/0 – 600 MCM or (4) 4-250 MCM.

Accessories

Service Entrance ³		ProCare Kit ⁴	
Amp Rating	Product Number	Description	Product Number
225A	BNDKT	ProCare Kit for Pro-Stock panelboard installation and maintenance	PROCARE
400A	BNDKT6		
600A	BNDKT6		

³Service entrance kit includes a bonding strap with hardware and a service entrance label.

⁴ProCare Kit includes: (5) filler plate hardware kits, (9) bus stud nuts, (5) MLA1 filler plates, (2) 225A phase barriers, (2) feed-thru barriers, (1) 400/600A phase barrier, (50) directory cards/rating books, (50) circuit number strips (1-48), (50) circuit number strips (43-84), (5) standard locks and keys, (50) deadfront screws, (10) AQ/AE front hardware kits, (10) AD front hardware kits, (50) service disconnect labels, (50) main labels.

⑦ Typical Bolt-On Branch Breakers

These tables show typical branch breakers, but do not include all branch breakers that can be used with Pro-Stock panelboards.

Branch circuit breakers for use with AQ panels (208/120 Vac 3-phase or 240 Vac single phase)

Amp Rating	10kAIC			22kAIC		
	1-pole	2-pole	3-pole	1-pole	2-pole	3-pole
	Product Number	Product Number	Product Number	Product Number	Product Number	Product Number
15	THQB1115	THQB2115	THQB32015	THHQB1115	THHQB2115	THHQB32015
20	THQB1120	THQB2120	THQB32020	THHQB1120	THHQB2120	THHQB32020
25	THQB1125	THQB2125	THQB32025	THHQB1125	THHQB2125	THHQB32025
30	THQB1130	THQB2130	THQB32030	THHQB1130	THHQB2130	THHQB32030
35	THQB1135	THQB2135	THQB32035	THHQB1135	THHQB2135	THHQB32035
40	THQB1140	THQB2140	THQB32040	THHQB1140	THHQB2140	THHQB32040
45	THQB1145	THQB2145	THQB32045	THHQB1145	THHQB2145	THHQB32045
50	THQB1150	THQB2150	THQB32050	THHQB1150	THHQB2150	THHQB32050
60	THQB1160	THQB2160	THQB32060	THHQB1160	THHQB2160	THHQB32060
70	THQB1170	THQB2170	THQB32070	THHQB1170	THHQB2170	THHQB32070
80	-	THQB2180	THQB32080	-	THHQB2180	THHQB32080
90	-	THQB2190	THQB32090	-	THHQB2190	THHQB32090
100	-	THQB21100	THQB32100	-	THHQB21100	THHQB32100

Branch circuit breakers for use with AE panels (480/277 Vac 3-phase)

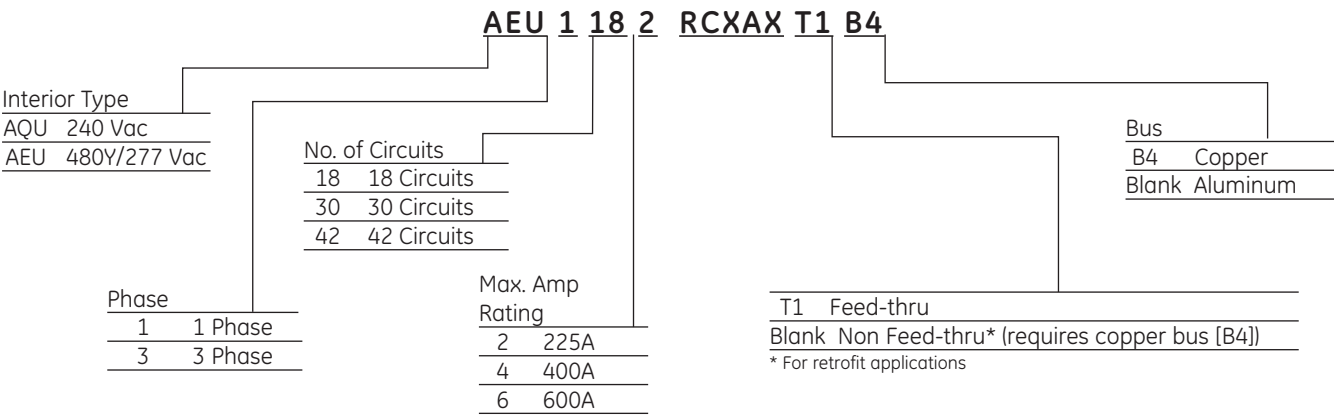
Amp Rating	14kAIC		
	1-pole	2-pole	3-pole
	Product Number	Product Number	Product Number
15	TEY115	TEY215	TEY315
20	TEY120	TEY220	TEY320
30	TEY130	TEY230	TEY330
40	TEY140	TEY240	TEY340
50	TEY150	TEY250	TEY350
60	TEY160	TEY260	TEY360
70	TEY170	TEY270	TEY370
80	TEY180	TEY280	TEY380
90	TEY190	TEY290	TEY390
100	TEY1100	TEY2100	TEY3100

Panelboards

A-Series™ II Panelboards

Pro-Stock, Unassembled Lighting Panels

Pro-Stock Interiors Product Number Structure



Panelboards

A-Series™ II Panelboards

Product Options

Section 11

Enclosure Options

BOX EXTENSIONS—For additional end gutter space or conduit skirt applications—see page 11-18.

Equipment Grounds—Factory Supplied with Panelboard

Description	Product Number
Field installed kits	
Standard bonded to box—for each 12 branch positions	TGL2
Copper bonded to box—for each 12 branch positions	TGC2
Standard-isolated/insulated—for each 12 branch positions	EGS12
Copper-isolated/insulated—for each 12 branch positions	EGC12
Main lug for above terminal kits	TGL20

Optional Equipment Grounds

Description	Product Number
Aluminum Extruded Bonded	AEBG
Copper Extruded Bonded	AEBGC
Aluminum Extruded Isolated	AEIG
Copper Extruded Isolated	AEIGC
Copper Isolated/Bonded	ASPGIBC

THQB/THHQB/THQL/THHQL/TEY Filler Plates

Product Number

TQLFP1

TQD/THQD/TED4/SE/FB Filler Plates

Product Number

TEDFP1

Breaker Mounting¹ Hardware Kits

Description	Product Number
Breaker type TED/THED4/SE	ASPTED3P
Breaker type TQD/THQD	ASPTQD3P
Breaker type FB—for mounting 12 poles	ASPFB12p ²
Breaker type FB—for mounting 3 poles	ASPFB3P ³

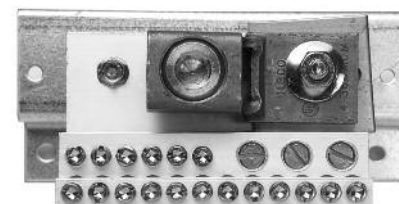
¹Use to mount breaker in existing space.

²Includes mounting screws and washers only.

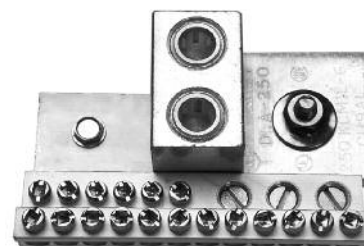
³Includes screws, washers and A-Series™ II panelboard connectors.



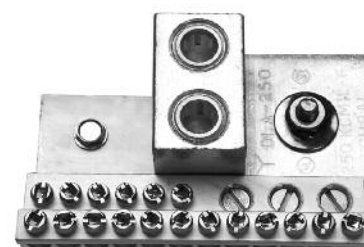
AEBG



AEBGC



AEIG



AEIGC



ASPGIBC

Panelboards

A-Series™ II Panelboards

Accessories
Field Installed Kits/Replacement Parts
Order By Product Number from Factory

Section 11

Endwall Kits

Field installed. For standard 20"w x 5.81"d boxes.

Product Number	Description	Qty.
ABEW2	Blank	1
AKEW2	Knockout	1

Panelboards Parts

Description	Product Number	List Price, GO-101
Directory Card	139C5612P3	\$2.00
Replacement Lock with Std. Key	569B737P1	\$22.00
Replacement Lock with GE75 Key	569B737P2	\$22.00
Additional Keys for Above Lock	569B737P5	\$2.00
Circuit Numbering Strips-		
1-48	569B806G1	\$4.00
49-84	569B806G2	\$4.00
85-126	569B806G3	\$4.00
Adhesive Backed Lamicoil Nameplate 3/4 in. x 3 in.	315A7190P1	\$27.00
Metal Directory Card Holder	139C5491G1	\$50.00
Directory Card Holder	139C5491P4	\$10.00
Delta Hi-leg Conversion Kit, to Add B-Phase		
Plug on AL Panels	APHBL	\$60.00
Bolt on AE/AQ Panels	APHBQ	\$60.00
NEMA 3R/12 Tamper Proof Tork Screw Kit	NEMATRX	\$30.00
2P to 3P TQD Conv. Kit	ASP2PTQD3P	\$100.00
2P to 3P SF Conv. Kit for horizontal subfeed	ASP2PTFJ3P	\$100.00
AD 25 to 65 kAIC Barrier kit	ASP25AD65KA ¹	\$100.00
Service Entrance Kit	ASPSERENT	\$50.00
2 wire Relay Kit	ASP2WRelay	\$286.00
Yale Lock Kit	ASPYALE47	\$120.00
Corbin Lock Kit	ASPCORBNTU1	\$120.00
2-3 pole TQD Mechanical Interlock	TQDFM1	\$120.00
AQ/AL/AE Rail Bracket	ASPAQLEBKT	\$20.00
Front Flush Adjust Kit	ASPFLUSHADJ	\$20.00
AE Front Mounting Kit	139C5720G3	\$30.00
AQ/AL Front Mounting Kit	139C5720G6	\$30.00
AD Front Mounting Kit	139C5720G9	\$30.00
Front Hinge to Box Mounting Kit	139C5700G6	\$20.00
Front Extension Mounting Kit	139C5700G11	\$20.00

¹Included in factory assembled panels—AD panels with Spectra® branch breakers.

Permanent Circuit Number Kits

Product Number		Description
AQ, AL, AE	AD	
APN48	APN48AD	No's 1-48
APN84	APN84AD	No's 43-84
APN126	APN126AD	No's 85-126



Replacement Lock with
Standard Key – Black
with GE Monogram



Replacement Lock with
GE75 Key – Red with no
GE Monogram

Box Extensions

Bolts to A-Series™ II box with or without box endwall in place. Extensions can be combined to obtain lengths greater than 18 and 24 inches.

Box Width and Depth	Box Mounting	Box Extension Length (Inches)	Box Extension Product Number
20 x 5.81	Flush	9	ABX2509F
		18	ABX2518F
		24	ABX2524F
	Surface	9	ABX2509S
		18	ABX2518S
		24	ABX2524S
		31	ABX2531S
		37	ABX2537S
		43	ABX2543S
		49	ABX2549S
		55	ABX2555S
		64	ABX2564S
		76	ABX2576S
30 x 5.81	Flush	18	ABX3518F
		24	ABX3524F
	Surface	18	ABX3518S
		24	ABX3524S
30 x 7.81	Flush	18	ABX3718F
		24	ABX3724F
	Surface	18	ABX3718S
		24	ABX3724S

Box Extensions Covers Only

10 covers per kit.

Description	Product Number
9" Covers Surface	ASPBX09S
9" Covers Flush	ASPBX09F
18" Covers Surface	ASPBX18S
18" Covers Flush	ASPBX18F
64" to 76" Covers Surface	ASPBX20S
64" to 76" Covers Flush	ASPBX20F

Panelboards

A-Series™ II Panelboards

Branch Circuit Monitoring

Section 11

The Branch Circuit Monitoring (BCM) unit provides a cost-effective integrated solution for A-Series™ II Panelboard power monitoring and submetering applications. With exceptional performance, the BCM unit monitors key electrical parameters of the main circuit and various branch circuits coming into the panelboard. This information can be transmitted via the RS-485 communication system in order to analyze usage and identify potential cost saving measures and improve load management. Offering IEC Class 1 revenue grade metering accuracy, the revenue grade BCM meter can be used for tenant billing and cost allocation.

Features

- Solutions up to 800A
- IEC Class 1 revenue grade metering accuracy
- Offers Solid Core or Split Core BCM selection process
- Monitor up to 50 panelboards on one RS-485 drop
- Reports volts, amps, power, and energy for each circuit
- Solid Core monitors 42 circuits (and optional mains)
- Split Core monitors up to 66 circuits (and optional mains)
- 4 configurable alarm thresholds improve load management
- Ability to set the orientation and numbering of the circuits
- 1/4 to 125¹ Amp monitoring – the widest range available
- 1-, 2-, 3-pole breaker support
- 5-year warranty
- Modbus® RTU via RS485 communications

¹Must use Split Core BCM for 110A and 125A monitoring.

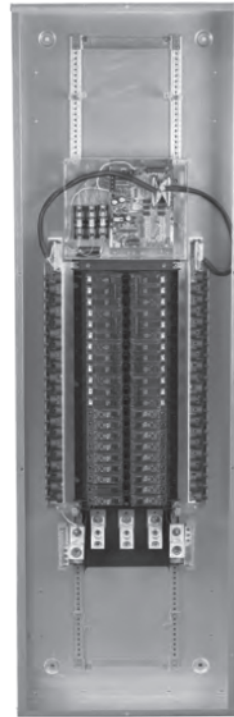
Solid Core available for 42 circuits only, 100A max.

Split Core available up to 66 circuits max. and up to 125A max.

References

DEA-539 for additional information

Speedi for configuration/quotation purposes



Panelboards

A-Series™ II Panelboard

AMP1 Integrated Power and Energy

Section 11

The AMP1 Power & Energy Meter provides a cost-effective integrated solution for A-Series* II panelboard power monitoring and submetering applications. With exceptional performance, the AMP1 monitors key electrical parameters of the main power coming into the panelboard. This information can then be transmitted to a building automation system (BAS), or similar system, to analyze usage and identify potential cost saving measures. Offering ANSI 12.20 0.5% accuracy, the revenue grade AMP1 meter can be used for tenant billing and cost allocation.

Features

- Solutions up to 800A
- Revenue Grade, ANSI 12.20 0.2% accuracy
- Monitors voltage, amperage, power, and energy
- Backlit LCD Display
- Data logging option to ensure data is still preserved locally
- Communicates via Modbus® RTU or BACnet – Versatile and widely used protocols.
- User-enabled password protection
- UL-67 approved
- 5-Year warranty
- Earn points towards LEED Certification

Meter

Type	Product Number
Pulse	AMP1B1
Modbus	AMP1C2
Modbus & data logger	AMP1C3
Bacnet & data logger	AMP1H5

Panelboard

	TYPE AQ	TYPE AE	TYPE AS
Max Voltage	240V	480Y/277V, 125/250 Vdc	480Y/277V, 125/250 Vdc
Max Amperage	800A	800A	800A
Fully Rated	65kAIC at 240V	18kAIC at 480Y/277V, 65kAIC at 240V	65kAIC at 480Y/277V, 100kAIC at 240V
Series Rated	200kAIC at 240V	100kAIC at 480V	100kAIC at 480V
Main Lug	600 Amp Max	600 Amp Max	600 Amp Max
Main Breakers	QB, SE, SF, SG, SK	TEY, TEYF, SE, SF, SG, SK	TEYD/H/L, SE, SF, SG, SK
Branch Breakers	15A-100A, 1P, 2P, 3P QB	15A-100A, 1P, 2P, 3P TEY or TEYF	15A-100A, 1P, 2P, 3P TEYD/H/L

Optional Accessories

To add an AMP1 meter to an existing/non-metering panel, enclosure, CTs and fuse kit can be ordered separately.

Current Transformer ¹		Enclosure ²	Fuse Kit ³
Amp Rating	Product Number	AMP1N4	AMP1FUSE
100	AMP1V100A		
200	AMP1V200A		
300	AMP1V300A		
400	AMP1V400A		
600	AMP1V600A		
800	AMP1V800A		
1000	AMP1V1000A		
1200	AMP1V1200A		
2000	AMP1V2000A		

¹Qty 3 per meter required for three pole breaker applications; qty 2 per meter required for two pole breaker applications.

²Qty 1 per meter required.

³Qty 1 per meter required.



Panelboards

Spectra™ Series Panelboards

Section 11

MCCB and Fusible Mains and Feeders

Service Information:

600 Vac maximum
250 Vdc maximum
1ph-3w, 3ph-3w/4w

Mains:

1200 A maximum main lugs, circuit breaker, or fusible switch

Branches:

15-1200 Circuit
Breakers
30-1200 (2P, 3P) Fusible Switch

Fuse:

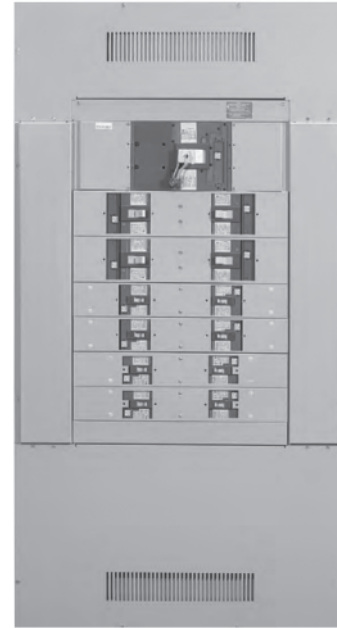
Not Included

Fuse Provisions:

30-600 Amp Units: Class R¹
800-1200 amp units: Class L²

Features

- Main bus, 250-1200 amp, copper or aluminum
- Wide, easy-to-install galvanized enclosures with removable endwalls
- 5 box widths simplify installation and design
- Enclosures available in NEMA Type 1, Type 3R/12, Type 4/4X
- Integrated TVSS for maximum surge protection
- Optional door-in-door or front-hinged-to-box construction
- Reduced density copper or aluminum bus
- 200% rated neutrals available
- Vertically mounted main circuit breakers available
- Branch-bus direct connection
- Captive hardware on branch breakers
- Front accessible main lug assembly
- Process control unit in plug-in style
- Spectra MVT breaker option for main/branch breakers
- 100% rated breakers available
- Individual breaker cover plates



Bolt On

Service Information:

1P, 3W-600/347 Vac
3P, 4W-600/347 Vac

Fully Rated- 200KAIC at 480/277 Vac
Series Rated- 200KAIC at 480/277 Vac

Mains

Breakers:

250A-1200A: SF, SG, SK, FG

Branch Breakers (Bolt-on):

Double Branch-SE, SF, SG, FG, FB, TEY, TEB, TQD Breakers
Center-mounted-SK Breakers

Plug In

Service Information:

1P, 3W-600/347 Vac
3P, 4W-600/347 Vac

Fully Rated-200KAIC at 480/277 Vac
Series Rated-200KAIC at 480/277 Vac

Mains

Breakers:

250A-1200A: SF, SG, SK, FG

Branch Breakers/Switches (Plug In):

Double Branch-SE, SF, SG, FG, FB, TEY, TEB, TQD Breakers
Center-mounted- SK Breakers
30A-1200A Fused Switches (R, J, H, K, T Fuses)

Panelboards

Spectra™ Series Panelboards

Fusible Switches Load and Interrupting Ratings

Section 11

Short Circuit Ratings—Fusible Switch Units (Plug-In Only)

UL Class	Available Amp Rating	Maximum Short-Circuit Rating in Sym. rms Amps	Max. Voltage	Application
H	30-600	10,000	250/600	One-time general purpose
J	30-600	200,000	600	Fast-acting rejection sizing mains & feeders, current limiting
K	30-600	50,000	250/600	Dual element no rejection means, motor starting current limiting
		100,000		
		200,000		
L	800-1200	200,000	600	Rejection means available in two forms
				Fast-acting mains & feeders
				Time-delay motor starting current limiting
R	30-600	100,000	250/600	Dual element rejection means, motor starting current limiting
		200,000		
T	100-600	200,000	250/600	Fast-acting small physical size mains & feeders, current limiting

Panelboard Terminal Lugs - Main Lugs² and Neutral Incoming Lugs

Lighting Panels (A-Series™ II)

Panelboard		Terminal Lugs (Cu-Al)		
Types	Max. Main Bus Rating in Amps	No. Per	Wire (Cu-Al)	
			No. Per Lug	Range
AL AQ AE AD	125	1	1	#14-2/0
	225	1	1	#6-350kcmil
	400	1	1	#4-600kcmil or
	600	1	2	1/0-250kcmil
	800	2	2	2/0-500 mcm

²Additional lug sizes available using oversize items.

200% Neutral Lugs

125A - (2) - #14—2/0

225A - (2) - #6—250 MCM

400A - (2) - #4—600 MCM

600A - (4) - #4—600 MCM

Branch Neutral Lugs

Small Holes #14—#4

Large Holes #14—2/0

Column Type Panels

Panelboard		Terminal Lugs (Cu-Al)		
Types	Max. Main Bus Rating in Amps	No. Per	Wire (Cu-Al)	
			No. Per Lug	Range
ALC	100	1	1	#6-2/0
AQC AEC	225	1	1	#6-350kcmil

Maximum Horsepower Ratings¹ ADS Fusible Switch

Rating in Amps ¹	Volts, ac						Volts, dc		
	2-Pole			3-Pole			2-Pole	2-Pole	
	120	240	480	600	240	480	600	125	250
With Standard Fuses									
30	1/2	1 1/2	3	3	3	5	7 1/2	2	5
60	1 1/2	3	5	10	7 1/2	15	15	5	10
100	—	7 1/2	10	15	15	25	30	—	20
200	—	15	25	30	25	50	60	—	40
400	—	—	—	—	50	100	125	—	50
600	—	—	—	—	75	150	200	—	50
With "Time-delay" Fuses									
30	2	3	7 1/2	10	7 1/2	15	20	3	—
60	3	10	20	25	15	30	50	—	—
100	—	15	30	40	30	60	75	—	—
200	—	15	50	50	60	125	150	—	—
400	—	—	—	—	125	250	350	—	—
600	—	—	—	—	200	400	500	—	—

¹Ratings are based on latest revision of the National Electrical Code Article 430. Horsepower ratings for switches with Standard Class H fuses are based on one-time fuses having minimum time-delay. When time-delay fuses are used, the horsepower ratings are maximum for the switches.

Spectra™ Optional Main Lug Terminations

	# Wires Per Lug	Max. # Lugs Per Phase		
		250-600A	800A 1200A 21"	800A 1200A 27"
CU/AL Mechanical				
#6-350 kcmil	1	2	2	4
#2-500 kcmil	2	2	2	4
#2-600 kcmil	2	2	2	4
3/0 750 kcmil	2	2	2	4
CU/AL Compression ³				
1/0	1	4	4	8
2/0	1	4	4	8
3/0	1	4	4	8
4/0	1	4	4	8
250 kcmil	1	4	4	8
300 kcmil	1	4	4	8
350 kcmil	1	4	4	8
400 kcmil	1	4	4	8
500 kcmil	1	4	4	8
600 kcmil	1	4	4	8
750 kcmil	1	4	4	8

³Not available on 19" main lug module.

Panelboards

Lighting Distribution Panelboards

Fusible Switches Load and Interrupting Ratings

Section 11

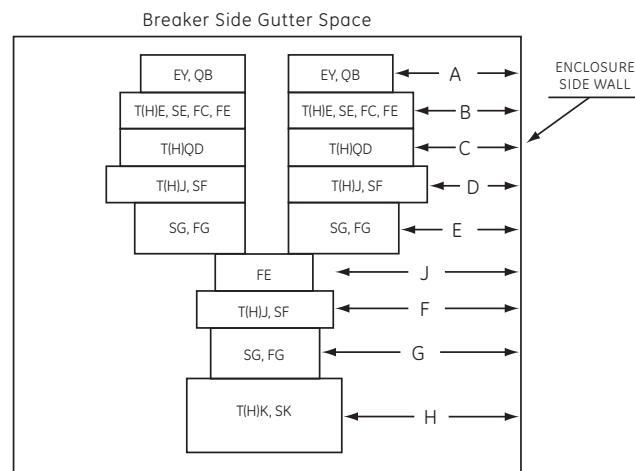
Spectra™ Series Neutral Kits

- Includes mechanical lugs and bonding strap.
- 250 to 600A neutral kits can be converted to dual main version by doubling the main lug quantity using lug kits (see Accessories).
- Main lug on neutral kit can be converted to compression main using AMKP lug kit.

Standard Neutral (Single Main Lug) ⁴				Dual Main Neutral ⁵		
Amps	Product Number	Accepts Wire Qty.	Accepts Wire Size (Cu/Al)	Product Number	Accepts Wire Qty.	Accepts Wire Size (Cu/Al)
250	ANKN400	2 (Main)	#2 - 600kcmil	ANKN400	2 (Main)	#2 - 600kcmil
		16	#14 - 2/0		16	#14 - 2/0
		5	#6 - 300kcmil		5	#6 - 300kcmil
		24	#14 - #4		24	#14 - #4
400	ANKN400	2 (Main)	#2 - 600kcmil	ANKN120	8 (Main)	#2 - 600kcmil
		16	#14 - 2/0		9	#14 - 2/0
		5	#6 - 300kcmil		10	#6 - 300kcmil
		24	#14 - #4		10	#14 - #4
600	ANKN120	8 (Main)	#2 - 600kcmil	ANKN120	8 (Main)	#2 - 600kcmil
		9	#14 - 2/0		9	#14 - 2/0
		10	#6 - 300kcmil		10	#6 - 300kcmil
		10	#14 - #4		10	#14 - #4
800	ANKN120	8 (Main)	#2 - 600kcmil	ANK800D	8 (Main)	#2 - 500kcmil
		9	#14 - 2/0		8	#14 - 2/0
		10	#6 - 300kcmil		10	#6 - 300kcmil
		10	#14 - #4		4	#2 - 500kcmil
1200	ANKN120	8 (Main)	#2 - 600kcmil	ANK120D	8 (Main)	#2 - 500kcmil
		9	#14 - 2/0		8	#14 - 2/0
		10	#6 - 300kcmil		10	#6 - 300kcmil
		10	#14 - #4		4	#2 - 500kcmil

⁴For 3ph, 4W single-section panelboards, use a standard neutral.

⁵For 3ph, 4W multi-section panelboards, use a standard neutral on the last section, and a dual main neutral on the first and middle sections.



ALL DIMENSIONS ARE FROM FACE OF LUG, SHOWN IN INCHES AND ± .250 Single mounted devices as branch or main Breakers are arranged, as a standard and if not specified, with largest and highest amperage closest to main incoming and the

smallest, lowest amperage furthest from the main incoming. The spaces, if any, will follow after the breakers. All main breakers are mounted horizontally and incoming lugs are, as a standard and if not specified, always oriented to the left gutter regardless if top or bottom feed. If 2 or more large branch breakers (SK, SG single mounted) are supplied with the board then the factory will start the first breaker with the lugs to the right and the second breaker with lugs to left and will continue staggering them until all have been installed. If any further clarification is needed, please contact your local GE representative.

Letter Reference	Enclosure Width				
	27	31	36	40	44
A	7.88	9.88	12.38	14.38	16.38
B	5.75	7.75	10.25	12.25	14.25
C	5.63	7.63	10.13	12.13	14.13
D	N/A	5.50	8	10	12
E	N/A	N /A	6.38	8.38	10.38
F	8.88	10.88	13.38	15.38	17.38
G	8.13	10.13	12.63	14.63	16.63
H	N/A	N /A	N/A	12.63	14.63
J	Breaker not available at time of printing				

Panelboards

Spectra™ Series Panelboards

Merchandisable Kits and Sizing Information

Section 11

Spectra™ Series Type ANKN/ANK/ANKT Neutral Kits

Amps (N = Neutral, GF = Ground Fault)	Box Width	Main	Lug Type	Ground Fault	Product Number
250A Single & Dual	27-36"	Single/Dual	Mechanical	No	ANKN400 ¹
	27-36"	Single	Mechanical	No	ANK250 ²
	27-36"	Dual	Mechanical	No	ANK250D ²
	36"	Single	Crimp Main & Feeders	No	ANK250C
	36"	Dual	Crimp Main & Feeders	No	ANK250DC
250A 200%N	36"	Single/Dual	Mechanical	No	ANKN120 ¹
	36"	Single	Mechanical	No	ANKT36250 ²
	36"	Dual	Mechanical	No	ANKT36250D ²
	36"	Dual	Mechanical	No	ANKT36250D ²
400A Single & Dual	27-44"	Single	Mechanical	No	ANKN400 ¹
	27-44"	Single	Mechanical	No	ANK400 ²
	27-44"	Single	Mechanical	No	ANKCU400 ⁴
	27-44"	Dual	Mechanical	No	ANKN120 ¹
	27-44"	Dual	Mechanical	No	ANK400D ²
	36-44"	Single	Crimp Main & Feeders	No	ANK400C
	36-44"	Dual	Crimp Main & Feeders	No	ANK400DC
	36-44"	Dual	Crimp Main & Feeders	No	ANK400DC
400A GF	27-44"	Single	Mechanical	Yes	ANK400GF
	36-44"	Single	Crimp Main, Mech. Feeders	Yes	ANK400GFCM
	36-44"	Single/Dual	Mechanical	No	ANKN120 ¹
400A 200%N	36"	Single	Mechanical	No	ANKT36400 ²
	40"	Single	Mechanical	No	ANKT40400 ²
	44"	Single	Mechanical	No	ANKT44400 ²
	36"	Dual	Mechanical	No	ANKT36400D ²
	40"	Dual	Mechanical	No	ANKT40400D ²
	44"	Dual	Mechanical	No	ANKT44400D ²
	44"	Dual	Mechanical	No	ANKT44400D ²
600A Single & Dual	27-44"	Single/Dual	Mechanical	No	ANKN120 ¹
	27-44"	Single	Mechanical	No	ANK600 ²
	27-44"	Dual	Mechanical	No	ANK600D ²
	36-44"	Single	Crimp Main & Feeders	No	ANK600C
	36-44"	Dual	Crimp Main & Feeders	No	ANK600DC
600A GF	27-44"	Single	Mechanical	Yes	ANK600GF
600A 200%N	36-44"	Single	Mechanical	No	ANKN120 ¹
	36"	Single	Mechanical	No	ANKT36600 ²
	40"	Single	Mechanical	No	ANK40600 ²
	44"	Single	Mechanical	No	ANK44600 ²
	36"	Dual	Mechanical	No	ANKT36600D
	40"	Dual	Mechanical	No	ANKT40600D
	44"	Dual	Mechanical	No	ANKT44600D
800A Single & Dual	31-44"	Single	Mechanical	No	ANKN120 ¹
	31-44"	Single	Mechanical	No	ANK800 ²
	31-44"	Dual	Mechanical	No	ANK800D ³
	36-44"	Single	Crimp Main & Feeders	No	ANK800C
	36-44"	Dual	Crimp Main & Feeders	No	ANK800DC ³
800A GF	31-44"	Single	Mechanical	Yes	ANK800GF ³
	36-44"	Single	Crimp Main & Feeders	Yes	ANK800GFC ³
	36"	Single	Mechanical	No	ANKT36800 ³
800A 200%N	40"	Single	Mechanical	No	ANKT40800 ³
	44"	Single	Mechanical	No	ANKT44800 ³
	36"	Dual	Mechanical	No	ANKT36800D ³
	40"	Dual	Mechanical	No	ANKT40800D ³
	44"	Dual	Mechanical	No	ANKT44800D ³
1000A GF	31-44"	Single	Mechanical	Yes	ANK100GF ³
	36-44"	Single	Crimp Main & Feeders	Yes	ANK100GFC ³
	31-44"	Single	Mechanical	No	ANKN120 ¹
1200A Single & Dual	31-44"	Single	Mechanical	No	ANKN120 ¹
	31-44"	Single	Mechanical	No	ANKNCU120 ⁴
	31-44"	Single	Mechanical	No	ANK120 ²
	31-44"	Dual	Mechanical	No	ANK120D ³
	31-44"	Dual	Mechanical	No	ANKNCU120D ⁴
	36-44"	Single	Crimp Main & Feeders	No	ANK120C
	36-44"	Dual	Crimp Main & Feeders	No	ANK120DC ³
1200A GF	31-44"	Single	Mechanical	Yes	ANK120GF ³
	36-44"	Single	Crimp Main & Feeders	Yes	ANK120GFC ³
	36"	Single	Mechanical	No	ANKT36120 ³
1200A 200%N	40"	Single	Mechanical	No	ANKT40120 ³
	44"	Single	Mechanical	No	ANKT44120 ³
	36"	Dual	Mechanical	No	ANKT36120D ³
	40"	Dual	Mechanical	No	ANKT40120D ³
	44"	Dual	Mechanical	No	ANKT44120D ³

¹Wire range #2AWG through 600 kcmil.

²Wire range above 600 kcmil.

³These neutrals require the 29 inch "A" gutters in the 75" and 96" high enclosures (75 High-23X or 96 High-38X)

⁴Material = Copper main lugs, copper feeder.

Panelboards

Lighting Distribution Panelboards

Terminal Lugs

Section 11

Spectra™ Series Main Lugs Top or Bottom Feed 240 Vac and 600 Vac, 200-1200 Amperes

Main Lug Kits (Factory Installed and/or Merchandise Panelboards)

- Kit bolts directly to interior bus bars (either APN Plug-In Style or APNB Bolt-On Style).
- Can be used for feed-through lug application by replacing standard cover plate with AFL feed-through cover plate kit (See Accessories).
- F suffix indicates all AFPML cover plates are included to fit applicable box widths. If cover plates are not necessary, remove the F suffix.
- For 2 pole applications, replace the third digit or numeral “3” in the product number with the number “2”.
- Aluminum mechanical lugs can be converted to copper by replacing the first from last digit from an A to a C.

Standard Main Lug Kit (Mechanical Lugs)								
Main Amps	Single or Dual Configuration	Module "X" Height	Product Number	Lugs Incl. Per Phase	Wires Per Lug	Wire Range (Cu/Al) ¹	Cover Plate Kit Included Product Number	Min. Box Width
250	Single & Dual	4X	AMB3600MAF	1	2	8-500kcmil(1) 2/0-600kcmil(1)	AFPML4X	27"
400	Single	4X	AMB3600MAF	1	2	8-500kcmil(1) 2/0-600kcmil(1)	AFPML4X	27"
	Dual	4X	AMB3120MAF	1	4	2/0-600kcmil(4)	AFPML4X	27"
600	Single	4X	AMB3600MAF	1	2	8-500kcmil(1) 2/0-600kcmil(1)	AFPML4X	27"
	Dual	4X	AMB3120MAF	1	4	2/0-600kcmil(4)	AFPML4X	27"
800	Single	4X	AMB3120MAF	1	4	2/0-600kcmil(4)	AFPML4X	31"
	Dual	4X	AMB3120DMAF	1	8	2/0-600kcmil(8)	AFPML4X	36"
1200	Single	4X	AMB3120MAF	1	4	2/0-600kcmil(4)	AFPML4X	31"
	Dual	4X	AMB3120DMAF	1	8	2/0-600kcmil(8)	AFPML4X	36"

¹Copper lugs can only be used with copper wire

Compression Main Lug Kit								
Main Amps	Single or Dual Configuration	Module "X" Height	Product Number	Lugs Incl. Per Phase	Wires Per Lug	Wire Range (Cu/Al)	Cover Plate Kit Included Product Number	Min. Box Width
250	Single	6X	AMB3250CAF	1	2	350 kcmil	AFPML6X	36"
	Dual	6X	AMB3250DCAF	2	1	350 kcmil	AFPML6X	36"
400	Single	6X	AMB3600CAF	2	1	500 kcmil	AFPML6X	36"
	Dual	6X	AMB3600DCAF	4	1	500 kcmil	AFPML6X	36"
600	Single	6X	AMB3600CAF	1	2	500 kcmil	AFPML6X	36"
	Dual	6X	AMB3600DCAF	4	1	500 kcmil	AFPML6X	36"
800	Single	6X	AMB3800CAF	3	1	500 kcmil	AFPML6X	36"
	Dual	6X	AMB3800DCAF	6	1	500 kcmil	AFPML6XW	36"
1200	Single	6X	AMB3120CAF	4	1	500 kcmil	AFPML6X	36"
	Dual	6X	AMB3120DCAF	8	1	500 kcmil	AFPML6XW	36"

Provisional Main Lug Kit						
Main Amps	Single or Dual Configuration	Module "X" Height	Product Number	Max. Wires Per Phase	Cover Plate Kit Included Product Number	Min. Box Width
250	Single	6X	AMB3120NF	4	AFPML6X	36"
	Dual	6X	AMB3120NF	4	AFPML6X	36"
400	Single	6X	AMB3120NF	4	AFPML6X	36"
	Dual	6X	AMB3120NF	4	AFPML6X	36"
600	Single	6X	AMB3120NF	4	AFPML6X	36"
	Dual	6X	AMB3120NF	4	AFPML6X	36"
800	Single	6X	AMB3120NF	4	AFPML6X	36"
	Dual	6X	AMB3120DNF	8	AFPML6XW	36"
1200	Single	6X	AMB3120NF	4	AFPML6X	36"
	Dual	6X	AMB3120DNF	8	AFPML6XW	36"

Spectra™ Series Panelboards

PCU Selection

Order from the Customer Service Center

Available in Spectra™ Plug-in Only

Spectra™ Series PCU Selection Guide

(Ref DET-104) Specify Overload Relay Amps
(Included w/PCU)**Description:** 15hp max, 22A, 600V max**Configuration:** 3PH, 3W, & ground; all units are 4X height, 120V control.

Pilot Device	Mount	Product Number ¹
Yes	Double	APCU151FNDPD**
Yes	Single	APCU151FNDPSX*
No	Double	APCU151FNDND**
No	Single	APCU151FNDNSX*

¹Replace * with required overload range from table.

Spectra™ PCU Control Power Transformer Kits

One kit required per panel unless an external, 120VAC is brought into the panel.

Continuous kVA	Primary Voltage ²	Capacity	Product Number
.200	600	Standard	APCUCKA200
.300	600	Extra	APCUCKA300
.200	480/240	Standard	APCUCKB200
.300	480/240	Extra	APCUCKB300
.200	208	Standard	APCUCKC200
.300	208	Extra	APCUCKC300

²Secondary voltage is 120Vac.

PCU Overload Selection

*	Overload Range
B	0.16-0.26A
C	0.25-0.41A
D	0.40-0.65A
F	0.65-1.1A
G	1.0-1.5A
H	1.3-1.9A
J	1.8-2.7A
K	2.5-4.1A
L	4.0-6.3A
M	5.5-8.5A
N	8.0-12.0A
P	10.0-16.0A
S	14.5-18.0A
T	17.5-22.0A
X	BLANK

Spectra™ PCU Kits

Description	Product Number
Spectra PCU Pilot Light Option (Kit includes red and green pilot lights)	APCUKPLT
Spectra PCU Wiring Kit (Optional kit for remote wiring)	APCUWK
Spectra PCU Expansion Kit to expand or rebuild PCU units)	APCUEKAF (left side)
	APCURKAF (right side)
Spectra PCU Blank Cans (Provides space for future PCU starters, other devices)	4X APCUDCAN4X
	7X APCUDCAN7X

Panelboards

Lighting Distribution Panelboards

Interior, Enclosure Options

Section 11

Bus Bars

Description
Copper 1000 Amp/sq-in. Main Vertical Bus
Silver plated copper in lieu of silver plated aluminum
Aluminum 600 Amp/sq-in. Main Bus Density
Reduces current density from 750 amps/sq-in. to 600 amps/sq-in.
Copper 800 Amp/sq-in. Main Bus Density
Reduces current density from 1000 amps/sq-in to 800 amps/sq-in.

Locking Devices

Frame Style	Description	Product Number
Padlocking Device (single padlock)		
Q ¹	THQB, THHQB	THP100
E	TEY	TEYPLD1
FC	FCS, FCV, FCN, FCH, FCL, FCPF	FCPLD
SE, E	TEB, TED, THED	TEFPLD1
	SED, SEH, SEL, SEP	SEPLD
FE	FES, FEV, FEN, FEH, FEL, FEPE	Breaker not available at time of printing
QD	TQD, THQD	TQDPLD1
SF, F	SFH, SFL, SFP	SEPLD
SG	SGD, SGH, SGL, SGP	SGPLD
FG	FGV, FGN, FGH, FGL, FGP, FGPF	FGPLD
SK, K	SKH, SKL, SKP	SKPLD
Handle Locking (nonpadlocking)		
Q ¹	THQB, THHQB	THL103
E	TEB, TED, THED	TLD3

¹Not available for ground fault breakers.

Locking Devices EUSERC Approved—Factory Installed Only

Breaker Type	Product Number
TQD	TQDPLD2
FC	FCS, FCV, FCN, FCH, FCL, FCPE
E150	TEDPLD2
SE150, SF250 ²	SEFPLD2
FE	FES, FEV, FEN, FEH, FEL, FEPE
SG600	SGPLD2
FG	FGV, FGN, FGH, FGL, FGP, FGPE
J600	TJKPLD2
SK1200	SKPLD2

²Field Installable

Equipment Ground Bars

Spectra™ grounding kits are sized according to the number of panel circuits (one per circuit or space).

Description
Bondable to box—includes bonding strap and main terminal
Insulated/isolated—includes main terminal

Enclosures (Box)

Description
Painted/Increased Gage
One option provides 12 gage box painted ANSI 61 gray (not available separately)
NEMA 3R
NEMA 12
NEMA 4X Stainless Steel
Wide Box (increased gutter space)
To increase to 31" from 27" box
To increase to 36" from 31" box
To increase to 44" from 40" box
To increase to 44" from 36" box
Narrow Box ⁴
To decrease to 27" from 36" box (circuit breakers only)
To decrease to 36" from 44" box
Box skirt — 12" high
Touch-up Paint
ANSI 61 gray, 12 oz. can

⁴Narrow box option limited to panels with maximum 600-amp circuit breaker feeders and 400-amp fusible feeders with T or J fuse clips. This option single branches some double branched devices and may result in additional sections. See page 11-30 and 11-31 for sizing information.

Fronts

Standard Arrangement	27"	31"	36"	40"	44"
	4 piece surface only (no door)				

Optional regular door (27W, surface only)

Optional door ^{5,6} within a door front

Optional front hinged to box surface only

⁵Specify surface or flush.

⁶Not available in 27" wide.

Front Modifications

Description
Lexan Cardholder for fronts with doors
Lamicaid Nameplate (1 per panel)
Yale 511S Spring Bolt Lock with Rosette Sleeve
Corbin 15767 Latch Bolt
3 pt Catch and Vault Handle
Permanent Number Tabs #1-49
Permanent Number Tabs #1-99

TVSS (Transient Voltage Surge Suppression)

Product Number	System Voltage	Panel Width	X Height	Panel Type	Surge Current Capability (per model)
ATME	120/208V, 240V Delta, 120/240V Delta, 120/240V Delta, 277/480V, 480V Delta	27" - 44"	7X	Plug-in/Bolt-on	65ka
					80ka
ATHE	120/208V, 240V Delta, 120/240V Delta, 120/240V Delta, 277/480V, 480V Delta	27" - 44"	7X	Plug-in/Bolt-on	100ka
					150ka
					200ka

*Field installable kits are available for adding to existing boards.

*Kits include: TVSS unit, 3 cover sizes, cover mounting brackets and cable.

*Add a "K" to the end of the full Product Number for the kit number.

Energy Management Meters

Product Number	System Voltage	Phase/Wire	Ship Cycle
EPM2200/ EPM6000/ EPM7000	600/347V	3P 4W/3P 3W	N
	480V	3P 4W/3P 3W	
	208/120V	3P 4W	
PQM Meter Module	600/347V	3P 4W/3P 3W	N
	480V	3P 4W/3P 3W	
	240V	3P 3W	
	240/120V HI-Leg	3P 4W	
	208/120V	3P 4W	
PQMII Meter Module	600/347V	3P 4W/3P 3W	N
	480V	3P 4W/3P 3W	
	240V	3P 3W	
	240/120V HI-Leg	3P 4W	
	208/120V	3P 4W	

7X required for panel distribution section mounting

Fits in 27", 31", 36", 40" and 44" wide sections

Panelboards

Lighting Distribution Panelboards

Integrated Submetering Panelboard

Section 11

Submetering lets you measure and bill energy use (electrical, water, gas) in master-metered commercial and/or residential buildings. Suitable for either new construction or retrofit, the Spectra™ Series Integrated Submetering Panelboard combines the benefits of a multi-tenant digital meter with a reliable GE Spectra™ Series panelboard.

Save Valuable Real Estate

GE's fully-integrated solution maximizes valuable real estate by combining meters, current transformers, communications and overload protection into a single UL Listed, factory-assembled panel. It requires only a fraction of the space needed for traditional modular metering.

Lower Construction Costs

Because this panelboard requires no special communications wiring, you'll reduce wire, conduit and installation costs. Individual branch circuit readings communicate through power line communication. All in all, it's lighter, more flexible, faster and easier to install than conventional utility metering.

Save Time

Fully assembled and wired in the factory.

Features and benefits

- Factory assembled/wired internal meters minimize installation labor
- Factory installed/wired CTs eliminate lengthy wiring runs and wiring errors
- Small footprint takes up less wall space than separate panels and meters
- UL Listed
- Communication:
 - Power line communication standard on all meters
 - Optional Modbus RS-485 communication
 - Up to 48 pulse inputs to capture energy data from other pulse-type energy devices (water, gas, steam meters)
- IEC optical front panel interface for programming
- Real-time, per-phase viewing of voltage, current, power factor, phase angle, watts, VARs, VA and frequency
- Event reporting with time and date stamps
 - Local LCD display
 - Push-button scroll
 - 32-digit liquid crystal display (16 digit x 2 rows)
 - Programmable display scroll and decimal place display
- Meets ANSI C12.1 and C12.16 revenue certifiable accuracy specifications and Canada (AE-1148)
- Data can be accessed and collected through third party read-bill-collect service or, with Modbus option, the internal EPM 4000 platform utilizes GE's Energy Aggregator billing software, an ideal web-based solution for tracking and monitoring energy consumption. Energy Aggregator allows for the creation of utility rate structures and automatic billing generation.



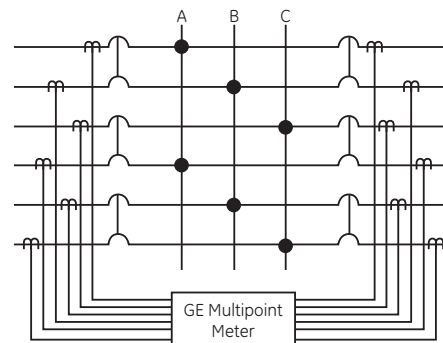
Specifications

Panel Type	Spectra Bolt-On (SBO)
Certifications	UL, cUL
Services	1P3W, 3P3W, 3P4W
Voltages	120/240V, 120/208V, 480/277V
Main Amps	250, 400, 600, 800, 1200
Main Types	SF, SG, SK
Busing	Cu
Feeder Types	TED, TQD, THQD, SE, SF
Feeder Amps	15-250A
Max Fully Rated AIC Ratings	65kAIC
Branch Devices	24-2 pole max.; 18-3 pole max.
No. of Meter Points/Panel	6, 9, 12, 15, 18, 21, 24
Series Ratings	65kAIC
Meter Specifications	Per EPM 4000 Brochure

Typical Dimensions

Tenants	Panel Dimensions (inches)
6	65H x 40W x 11.5D
12	76H x 40W x 11.5D
18/24	89H x 44W x 11.5D

Example of 6-unit Wiring Diagram



Panelboards

Lighting Distribution Panelboards

Renewal Parts

Modular Concept

Order all components from Customer Service Center

Fig. 1.1 is a front view of a typical Spectra™ Series fusible panelboard.

Fig. 1.2 is also a front view, but with the front (4 piece trim), all fusible switches, and all filler plates removed.

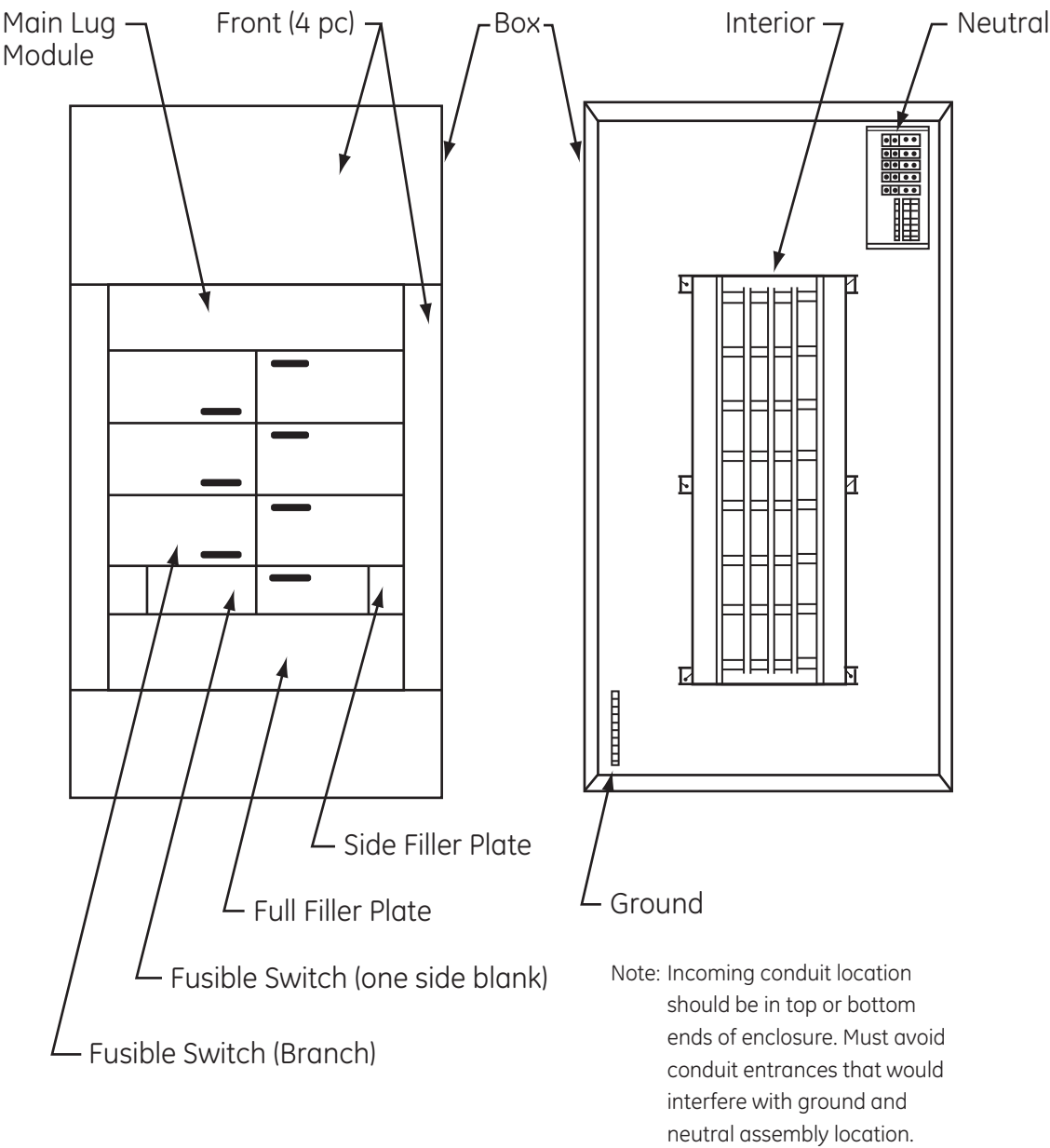


Fig. 1.1

Fig. 1.2

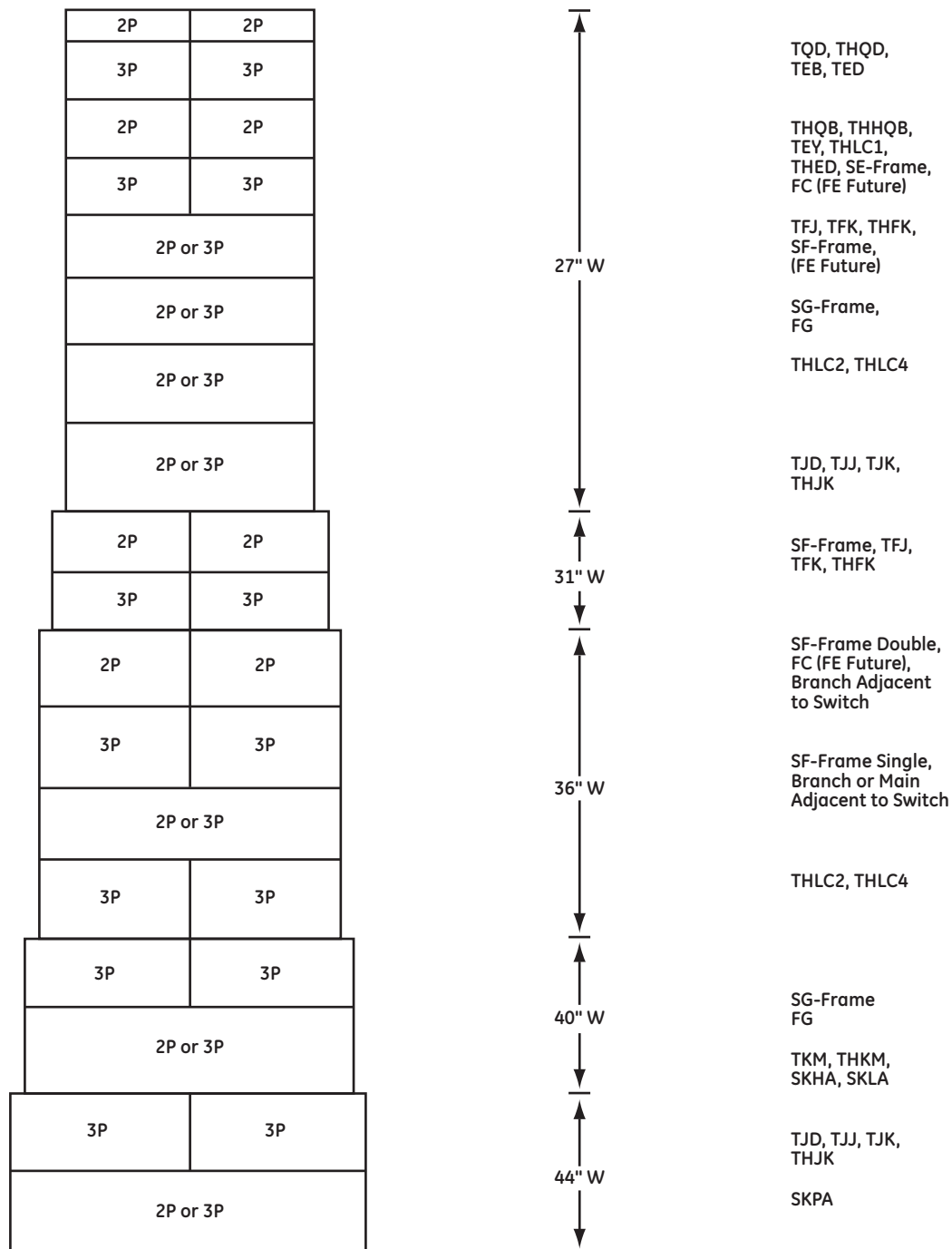
Panelboards

Lighting Distribution Panelboards

Renewal Parts

Circuit Breaker Sizing

Section 11



Panelboards

Lighting Distribution Panelboards

Replacement Boxes and Fronts
Order from the Customer Service Center

Section 11

Type APB NEMA 1 Enclosure

Width	Height	Interior X-Height	Modification	Product Number
27"	65"	18X	11.50"D, Std Gauge	APB2765AS
			11.50"D, Painted/Heavy Gauge	APB2765ASP
			14.25"D, Std Gauge	APB2765A
			14.25"D, Painted/Heavy Gauge	APB2765AP
		23X	11.50"D, Std Gauge	APB2765BS
			11.50"D, Painted/Heavy Gauge	APB2765BSP
			14.25"D, Std Gauge	APB2765B
			14.25"D, Painted/Heavy Gauge	APB2765BP
		28X	11.50"D, Std Gauge	APB2765CS
			11.50"D, Painted/Heavy Gauge	APB2765CSP
			14.25"D, Std Gauge	APB2765C
			14.25"D, Painted/Heavy Gauge	APB2765CP
	75"	28X	11.50"D, Std Gauge	APB2775S
			11.50"D, Painted/Heavy Gauge	APB2775SP
			14.25"D, Std Gauge	APB2775
			14.25"D, Painted/Heavy Gauge	APB2775P
		33X, 38X	11.50"D, Std Gauge	APB2789S
			11.50"D, Painted/Heavy Gauge	APB2789SP
			14.25"D, Std Gauge	APB2789
			14.25"D, Painted/Heavy Gauge	APB2789P
	89"	18X	11.50"D, Std Gauge	APB3165A
			11.50"D, Painted/Heavy Gauge	APB3165AP
			14.25"D, Std Gauge	APB3165AD
			14.25"D, Painted/Heavy Gauge	APB3165ADP
		23X	11.50"D, Std Gauge	APB3165B
			11.50"D, Painted/Heavy Gauge	APB3165BP
			14.25"D, Std Gauge	APB3165BD
			14.25"D, Painted/Heavy Gauge	APB3165BDP
		28X	11.50"D, Std Gauge	APB3165C
			11.50"D, Painted/Heavy Gauge	APB3165CP
			14.25"D, Std Gauge	APB3165CD
			14.25"D, Painted/Heavy Gauge	APB3165CDP
31"	75"	23X, 28X	11.50"D, Std Gauge	APB3175
			11.50"D, Painted/Heavy Gauge	APB3175P
			14.25"D, Std Gauge	APB3175D
			14.25"D, Painted/Heavy Gauge	APB3175DP
		33X, 38X	11.50"D, Std Gauge	APB3189
			11.50"D, Painted/Heavy Gauge	APB3189P
			14.25"D, Std Gauge	APB3189D
			14.25"D, Painted/Heavy Gauge	APB3189DP
		38X, 43X	11.50"D, Std Gauge	APB3196A
			11.50"D, Painted/Heavy Gauge	APB3196AP
			14.25"D, Std Gauge	APB3196AD
			14.25"D, Painted/Heavy Gauge	APB3196ADP
	96"	48X	11.50"D, Std Gauge	APB3196B
			11.50"D, Painted/Heavy Gauge	APB3196BP
			14.25"D, Std Gauge	APB3196BD
			14.25"D, Painted/Heavy Gauge	APB3196BDP

Type APB NEMA 1 Enclosure (Continued)

Width	Height	Interior X-Height	Modification	Product Number	
36"	65	18X, 23X, 28X	11.50"D, Std Gauge	APB3665	
			11.50"D, Painted/Heavy Gauge	APB3665P	
			16.25"D, Std Gauge	APB3665D	
			16.25"D, Painted/Heavy Gauge	APB3665DP	
		75	23X, 28X	11.50"D, Std Gauge	APB3675
				11.50"D, Painted/Heavy Gauge	APB3675P
				16.25"D, Std Gauge	APB3675D
				16.25"D, Painted/Heavy Gauge	APB3675DP
	89	33X, 38X	11.50"D, Std Gauge	APB3689	
			11.50"D, Painted/Heavy Gauge	APB3689P	
			16.25"D, Std Gauge	APB3689D	
			16.25"D, Painted/Heavy Gauge	APB3689DP	
		96	38X, 43X, 48X	11.50"D, Std Gauge	APB3696
				11.50"D, Painted/Heavy Gauge	APB3696P
				16.25"D, Std Gauge	APB3696D
				16.25"D, Painted/Heavy Gauge	APB3696DP
	40"	65	18X, 23X	11.50"D, Std Gauge	APB4065
				11.50"D, Painted/Heavy Gauge	APB4065P
				14.25"D, Std Gauge	APB4065D
				14.25"D, Painted/Heavy Gauge	APB4065PD
		75	23X, 28X	11.50"D, Std Gauge	APB4075
				11.50"D, Painted/Heavy Gauge	APB4075P
				14.25"D, Std Gauge	APB4075D
				14.25"D, Painted/Heavy Gauge	APB4075DP
		89	33X, 38X	11.50"D, Std Gauge	APB4089
				11.50"D, Painted/Heavy Gauge	APB4089P
				14.25"D, Std Gauge	APB4089D
				14.25"D, Painted/Heavy Gauge	APB4089DP
96	38X, 43X, 48X	11.50"D, Std Gauge	APB4096		
		11.50"D, Painted/Heavy Gauge	APB4096P		
		14.25"D, Std Gauge	APB4096D		
		14.25"D, Painted/Heavy Gauge	APB4096DP		
44"	65	18X, 23X	11.50"D, Std Gauge	APB4465	
			11.50"D, Painted/Heavy Gauge	APB4465P	
			16.25"D, Std Gauge	APB4465D	
			16.25"D, Painted/Heavy Gauge	APB4465DP	
	75	23X, 28X	11.50"D, Std Gauge	APB4475	
			11.50"D, Painted/Heavy Gauge	APB4475P	
			16.25"D, Std Gauge	APB4475D	
			16.25"D, Painted/Heavy Gauge	APB4475DP	
	89	33X, 38X	11.50"D, Std Gauge	APB4489	
			11.50"D, Painted/Heavy Gauge	APB4489P	
			16.25"D, Std Gauge	APB4489D	
			16.25"D, Painted/Heavy Gauge	APB4489DP	
96	38X, 43X, 48X	11.50"D, Std Gauge	APB4496		
		11.50"D, Painted/Heavy Gauge	APB4496P		
		16.25"D, Std Gauge	APB4496D		
		16.25"D, Painted/Heavy Gauge	APB4496DP		

Panelboards

Lighting Distribution Panelboards

Section 11

Replacement Boxes and Fronts
Order from the Customer Service Center

Type APB NEMA 3R and 12 Enclosures

Width	Depth	Height	Interior X-Height ¹	Product Number ²
27"	14.25"	65"	18X	APB(D,R)276518(B,T)
			23X	APB(D,R)276523(B,T)
			28X	APB(D,R)276528(B,T)
		75"	28X	APB(D,R)277528(B,T)
			33X	APB(D,R)278933(B,T)
			38X	APB(D,R)278938(B,T)
31"	14.25"	65"	18X	APB(D,R)316518(B,T)
			23X	APB(D,R)316523(B,T)
			28X	APB(D,R)316528(B,T)
		75"	23X	APB(D,R)317523E(B,T)
			23X GF	APB(D,R)317523E(B,T)
			28X	APB(D,R)317528(B,T)
		89"	33X	APB(D,R)318933(B,T)
			38X	APB(D,R)318938(B,T)
36"	16.25"	65"	18X	APB(D,R)366518(B,T)
			23X	APB(D,R)366523E(B,T)
			28X	APB(D,R)366528(B,T)
			23X	APB(D,R)367523E(B,T)
		75"	23X DM	APB(D,R)367523E(B,T)
			28X	APB(D,R)367528(B,T)
			33X	APB(D,R)368933(B,T)
			38X	APB(D,R)368938(B,T)
40"	14.25"	65"	18X	APB(D,R)406518(B,T)
			23X	APB(D,R)406523(B,T)
		75"	23X	APB(D,R)407523E(B,T)
			23X DM	APB(D,R)407523E(B,T)
			28X	APB(D,R)407528(B,T)
44"	16.25"	65"	18X	APB(D,R)446518(B,T)
			23X	APB(D,R)446523(B,T)
		75"	23X	APB(D,R)447523E(B,T)
			23X DM	APB(D,R)447523E(B,T)
			28X	APB(D,R)447528(B,T)

¹GF = Ground Fault

DM = Dual Main, Ground Fault, 200% Neutral

²(D,R) D = NEMA 12

R = NEMA 3R

(B,T) B = Bottom Feed

T = Top Feed

200% Neutral

Provides second neutral assembly of equal amperage rating.

Compression Lugs

Main Lugs, Neutral Lugs and Fusible Switches

The standard sizes and number of mechanical lugs are shown on page 11-25.

Description	Description
#12 1/0	500 kcmil
2/0-300 kcmil	600-750 kcmil

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Product Number Structure

Section 11

Panelboard Interior – Type APN

Example:	APN	38	06	U	B4
		<u>"X" Hgt of Interior</u>	<u>Ampere Rating</u>	<u>Interior Type</u>	<u>Modification Code</u>
		18 = 18X	02 = 200A	U = Unassembled	Blank = Standard (Aluminum Bus)
		23 = 23X	04 = 400A		B4 = Copper Bus (100A/sq in.)
		28 = 28X	06 = 600A		
		33 = 33X	08 = 800A		
		38 = 38X	12 = 1200A		
		43 = 43X			
		48 = 48X			
		53 = 53X			

Panelboard Interior – Type APNB

Example:	APNB	38	06	U	B4
		<u>"X" Hgt of Interior</u>	<u>Ampere Rating</u>	<u>Interior Type</u>	<u>Modification Code</u>
		18 = 18X	02 = 200A	U = Unassembled	Blank = Standard (Aluminum Bus)
		23 = 23X	04 = 400A		B4 = Copper Bus (100A/sq in.)
		28 = 28X	06 = 600A		
		33 = 33X	08 = 800A		
		38 = 38X	12 = 1200A		
		43 = 43X			
		48 = 48X			
		53 = 53X			

Panelboard Box – Type APB

Example:	APB	36	89	
		<u>Box Width</u>	<u>Box Height</u>	<u>Modification Code</u>
		27 = 27"	65 = 65"	Blank = Any box except APB2765
		36 = 36"	75 = 75"	A = For APB2765 with 18X interior
		44 = 44"	89 = 89"	B = For APB2765 with 23X interior
			96 = 96"	C = For APB2765 with 28X interior

Panelboard Front – Type APF

Example:	APF	89	38	
		<u>Box Height</u>	<u>"X" Hgt of Interior</u>	<u>Modification Code</u>
		65 = 65"	18 = 18X	Blank = For Std Box (36" wide)
		75 = 75"	23 = 23X	S = For Slim Box (27" wide)
		89 = 89"	28 = 28X	W = For Wide Box (44" wide)
		96 = 96"	33 = 33X	E = Extra Line Gutter Space for Dual Main Neutral
			38 = 38X	N = Nonvented Front (for 250A only)
			43 = 43X	
			48 = 48X	
			53 = 53X	

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Product Number Structure (Continued)

Section 11

Disconnect Switches – Type ADS

Example:	ADS	3	6	200	H	D	FP
		No. of Poles	Voltage Rating	Ampere Rating	Fuse Type	Unit Type	Accessory Code
		2 = 2 poles 3 = 3 poles	2 = 240V 6 = 600V	030 = 30A 060 = 60A 100 = 100A 200 = 200A 400 = 400A 600 = 600A 800 = 800A 120 = 1200A	H = Class H, R, or K T = Class T J = Class J L = Class L	D = Double Unit with 2 switches S = Single Switch in a Double Unit B = Single Branch Unit M = Main Switch K = Expansion Kit (switch only ... no module)	FP = With Filler Plate Kit (side fillers)

Circuit Breaker Mounting Modules – Type AMC

Example:	AMC	6	EB	S	FP
		No. of Total CB Poles on Module	Breaker Frames	Unit Type	Accessory Code
		6 = 6 poles (3-pole breakers, double branched) 4 = 4 poles (2-pole breakers, double branched) 3 = 3 poles (3-pole breakers, single branched) 2 = 2 poles (2-pole breakers, single branched)	QB = THQB, THHQB EY = TEY EB = TEB, TED, THED, SED, SEH, SEL, SEP FDB = FC FEB = FE Future FJ = TFJ, TFK, THFK, TFL, SFH, SFL, SFP JK = TJD, TJJ, TJK, THJK, TJ4V, TJL4V LB = TLB4, THLC2, THLC4 GB or GM = SGD, SGH, SGL, SGP FGB = FG KM = TKM, THKM, TK4V, TKL4V, SKH, SKL, SKP FB = FB	Blank = Std. S = Special Type to allow TFL, SE and SF to be mounted adjacent to a switch	FP = With Filler Plate Kit (full width plates with cutouts for handles, etc.)

Bolt-on Strap Kits – Type AMCB

Example:	AMCB	6	EB	B	FP
		Poles	C/B Frame	Mounting	Accessory Code
		2 3 4 6	EB = SE, TEB, T(H)ED EY = TEY FDB = FC FE = FEB Future FJ = SF G = SG FG = FGB K = SK, T(H)KM LB = THLC2.4 QD = T(H)QD SE = SE, THED	Blank = Main or Branch B = Branch Only M = Main Only	FP = With Filler Plate Kit (full width plates with cutouts for handles, etc)

Bolt-on Strap Kits – Type SRF

Example:	SRF	6	XT1	B	FPX
		Poles	C/B Frame	Mounting	Accessory Code
		3 6	XT1 = Tmax XT XT1 XT4 = Tmax XT XT4 XT5 = Tmax XT XT5 XT7 = Tmax XT XT7	Blank = Main or Branch B = Branch Only M = Main Only	FPX = With Filler Plate Kit (full width plates with cutouts for handles, etc.) FPK = With Filler Plate Kit and Kirk Lock Provision

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Product Number Structure (Continued)

Section 11

Neutral CT Kits – Type SRFN

Example:	SRFN	400	GF
		Ampere Rating	Modification Code
		400= 400A Tmax XT XT5	GF = Tmax XT Spectra Panel Neutral CT kit
		600= 600A Tmax XT XT5	
		800 = 800A Tmax XT XT7	
		100 = 1000A Tmax XT XT7	
		120 = 1200A Tmax XT XT7	

Neutral Kits – Type ANK

Example:	ANK	800	D
		Ampere Rating	Modification Code
		250 = 250A	Blank = Std (single main)
		400 = 400A	D = Dual Main
		600 = 600A	GF = Ground Fault Only
		800 = 800A	
		100 = 1000A	
		120 = 1200A	

Equipment Ground Kits – Type AEG

Example:	AEG	21	S
		No. of Circuits	Modification Code
		10	Blank = Std (bonded)
		21	S = Insulated/Isolated
		31	

NEMA 1 Box Extensions - Type APB¹

Example:	APB	27	E
		Width	Extension Depth
		27	E = 12H, 11.5D, 31/36/40/44W
		31	12H, 14.25D, 27W
		36	ED = 12H, 14.25D, 31/40W
		40	12H, 16.25D, 36/44W
		44	ES = 12H, 11.5D, 27W

¹Note: Available in SPEEDI under "EXT" code on modifications screen. Also available by product number through ONE STOP.

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Mounting Hardware

Order from the Customer Service Center

Section 11

Product Features

- Use to mount main or branch circuit breakers into panelboard. Breakers bolt on to the mounting modules.
- FP suffix indicates that all AFP filler plates, with cutouts for handles, are included to fit all applicable box widths. On double branch modules, filler plates to cover any unused breaker poles are also included.
- Circuit breakers not included in module price.
- Includes all necessary hardware.

Circuit Breaker Mounting Modules Plug-In Spectra™ 3-pole

Mounting Arrangement	Maximum Breaker Amperage	Breaker Frame	X Height	Filler Plate Kit Product Number	Box Width Range	Product Number
Double Branch	100	THQB or THHQB	3X	AFP3QBD	27", 31", 36" 40", 44"	AMC6QBFP
Double Branch	100	TEY	3X	AFP3EYD	27", 31", 36" 40", 44"	AMC6EYFP
Double Branch	100	FBV, FBN, FBH, or FBL	3X	AFP3FBD	27", 31", 36", 40", 44"	AMC6FBFP
Double Branch	100	FCS, FCV, FCN, FCH or FCL	3X	AFP3FDD	27", 31", 36", 40", 44"	AMC6FDBFP
Double Branch	150	TEB, TED, THED, SEDA SEHA, SELA or SEPA	3X	AFP3SED	27", 31", 36", 40", 44"	AMC6EBFP
Double Branch	225	TQD or THQD	3X	AFP3QDD	27", 31", 36", 40", 44"	AMC6QDFF
Double Branch	225	TFJ or TFK or THFK	3X	AFP3TFD	31", 36", 40", 44"	AMC6FJFPTF
Double Branch	250	SFHA or SFLA or SFPA	3X	AFP3SFD	31", 36", 40" 44"	AMC6FJFP1
Double Branch	250	FES, FEV, FEN, FEH or FEL	3X	AFP3FED	27", 31", 36", 40", 44"	AMC6FEBFP
Double Branch	400	TJD or TJJ	6X	AFP6TJD	44"	AMC6JKFP
Double Branch	600	TJK or THJK	6X	AFP6TJD	44"	AMC6JKFP
Double Branch	600	FGL, FGN, FGH or FGP	4X	AFP4FGD	40", 44"	AMC6FGBFP
Double Branch	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGD	40", 44"	AMC6GBFP2
Double Branch Adjacent to Switch	100	FCS, FCV, FCN, FCH or FCL	4X	AFP4FDD	36", 44"	AMC6FDSFP
Double Branch Adjacent to Switch	150	SEDA or SEHA or SELA or SEPA	4X	AFP4SED	36", 44"	AMC6EBSFP
Double Branch Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFD	36", 44"	AMC6FLSFP
Double Branch Adjacent to Switch	250	FES, FEV, FEN, FEH or FEL	4X	AFP4FED	36", 44"	AMC6FESFP
Single Branch or Main	225	TFJ or TFK or THFK	3X	AFP3TFS	27", 31", 36", 40", 44"	AMC3FJFPTF
Single Branch or Main	250	SFHA or SFLA or SFPA	3X	AFP3SFS	27", 31", 36", 40", 44"	AMC3FJFP1
Single Branch or Main	250	FES, FEV, FEN, FEH or FEL	3X	AFP3FES	27", 31", 36", 40", 44"	AMC3FEBFP
Single Branch or Main	400	TJD or TJJ	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC3JKFP
Single Branch or Main	600	TJK or THJK	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC3JKFP
Single Branch or Main	600	FGV, FGN, FGH or FGP	4X	AFP4FGS	27", 31", 36", 40", 44"	AMC3FGMFP
Single Branch or Main	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGS	27", 31", 36", 40", 44"	AMC3GMFP
Single Branch or Main	1200	TKM or THKM or SKHA or SKLA	6X	AFP6SKS	40", 44"	AMC3KMFP
Single Branch or Main	1200	SKPA	6X	AFP6SKS	44"	AMC3KMFP
Single Branch or Main Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFS	36", 44"	AMC3FLSFP
Single Branch or Main Adjacent to Switch	250	FES, FEV, FEN, FEH or FEL	4X	AFP4FES	36", 44"	AMC3FESFP

Circuit Breaker Mounting Modules Plug-In Spectra™ 2-pole

Mounting Arrangement	Maximum Breaker Amperage	Breaker Frame	X Height	Filler Plate Kit Product Number	Box Width Range	Product Number
Double Branch	100	THQB or THHQB	3X	AFP3QBD	27", 31", 36" 40", 44"	AMC6QBFP
Double Branch	100	TEY	3X	AFP3EYD	27", 31", 36" 40", 44"	AMC6EYFP
Double Branch	100	FCS, FCV, FCN, FCH or FCL	3X	AFP3FDD	27", 31", 36", 40", 44"	AMC4FDBFP
Double Branch	150	TEB or TED	3X	AFP2TED	27", 31", 36" 40", 44"	AMC4EBFP
Double Branch	150	SEDA or SEHA or SELA or SEPA, THED	3X	AFP3SED	27", 31", 36" 40", 44"	AMC4SEFP
Double Branch	225	TQD or THQD	2X	AFP2QDD	27", 31", 36" 40", 44"	AMC4QDFF
Double Branch	225	TFJ or TFK or THFK	3X	AFP3TFD	31", 36", 40", 44"	AMC4FJFPTF
Double Branch	250	SFHA or SFLA or SFPA	3X	AFP3SFD	31", 36", 40" 44"	AMC4FJFP1
Double Branch	250	FES, FEV, FEN, FEH or FEL	3X	AFP3FED	27", 31", 36", 40", 44"	AMC4FEBFP
Double Branch	400	TJD or TJJ	6X	AFP6TJD	44"	AMC4JKFP
Double Branch	600	TJK or THJK	6X	AFP6TJD	44"	AMC4JKFP
Double Branch	600	FGV, FGN, FGH or FGP	4X	AFP4FGD	40", 44"	AMC4FGBFP
Double Branch	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGD	40", 44"	AMC4GBFP2
Double Branch Adjacent to Switch	100	FCS, FCV, FCN, FCH or FCL	4X	AFP4FDD	36", 44"	AMC4FDSFP
Double Branch Adjacent to Switch	150	SEDA or SEHA or SELA or SEPA	4X	AFP4SED	36", 44"	AMC4EBSFP
Double Branch Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFD	36", 44"	AMC4FLSFP
Double Branch Adjacent to Switch	250	FES, FEV, FEN, FEH or FEL	4X	AFP4FED	36", 44"	AMC4FESFP
Single Branch or Main	225	TFJ or TFK or THFK	3X	AFP3TFS	27", 31", 36", 40", 44"	AMC2FJFPTF
Single Branch or Main	250	SFHA or SFLA or SFPA	3X	AFP3SFS	27", 31", 36", 40", 44"	AMC2FJFP1
Single Branch or Main	250	FES, FEV, FEN, FEH or FEL	3X	AFP3FES	27", 31", 36", 40", 44"	AMC2FEBFP
Single Branch or Main	400	TJD or TJJ	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC2JKFP
Single Branch or Main	600	TJK or THJK	6X	AFP6TJS	27", 31", 36", 40", 44"	AMC2JKFP
Single Branch or Main	600	FGV, FGN, FGH or FGP	4X	AFP4FGS	27", 31", 36", 40", 44"	AMC2FGMFP
Single Branch or Main	600	SGDA or SGHA or SGLA or SGPA	4X	AFP4SGS	27", 31", 36", 40", 44"	AMC2GMFP
Single Branch or Main	1200	TKM or THKM or SKHA or SKLA	6X	AFP6SKS	40", 44"	AMC2KMFP
Single Branch or Main	1200	SKPA	6X	AFP6SKS	44"	AMC2KMFP
Single Branch or Main Adjacent to Switch	250	SFHA or SFLA or SFPA	4X	AFP4SFS	36", 44"	AMC2FLSFP
Single Branch or Main Adjacent to Switch	250	FES, FEV, FEN, FEH or FEL	4X	AFP4FES	36", 44"	AMC2FESFP

¹All SE, SF and FE breakers located adjacent to a fusible switch, PCU or TVSS require mounting modules suitable for mounting "Adjacent to Switch."

SGDA circuit breaker rated 400 amps maximum.

²THLC 1/2/4 breaker no longer available.

Note: 1X = 1 3/8" vertical panel space.

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Mounting Hardware
Order from the Customer Service Center

Section 11

Product Features

- Module includes fusible switch and panelboard mounting connectors. Fuses not included.
- Class R Fuse Clip Kit (for field installation) included with all switches that accept Class R Fuses.
- FP suffix indicates that all AFP filler plates are included to fit applicable box widths.

Branch Switch Modules Plug-In Spectra™ 240 Volts 3-pole

Mounting Arrangement	Fuse Type	Switch Amperes	X Height	Side Filler Plate Kit Part Number	Box Width Range	Product Number
Double Branch-2 switches	H, R, or K	30	4X	AFP4X	36", 44"	ADS32030HDFP
Double Branch-2 switches	H, R, or K	60	4X	AFP4X	36", 44"	ADS32060HDFP
Double Branch-2 switches	H, R, or K	100	5X	AFP5X	36", 44"	ADS32100HDFP
Double Branch-2 switches	T	100	7X	AFP7T	36", 44"	ADS32100TDFP
Double Branch-2 switches	H, R, or K	200	7X	AFP7X2	44"	ADS32200HDFP
Double Branch-2 switches	T	200	7X	AFP7T	36", 44"	ADS32200TDFP
Double Branch-switch plus space	H, R, or K	30	4X	AFP4X	36", 44"	ADS32030HSFP
Double Branch-switch plus space	H, R, or K	60	4X	AFP4X	36", 44"	ADS32060HSFP
Double Branch-switch plus space	H, R, or K	100	5X	AFP5X	36", 44"	ADS32100HSFP
Single Branch	H, R, or K	200	7X	AFP7X	36", 44"	ADS32200HBFP
Single Branch	H, R, or K	400	10X	AFP10X	44"	ADS32400HBFP
Single Branch	T	400	10X	AFP10T	36", 44"	ADS32400TBFP
Single Branch	H, R, or K	600	10X	AFP10X	44"	ADS32600HBFP
Single Branch	T	600	10X	AFP10T	36", 44"	ADS32600TBFP

Branch Switch Modules Plug-In Spectra™ 240 Volts 2-pole

Mounting Arrangement	Fuse Type	Switch Amperes	X Height	Side Filler Plate Kit Part Number	Box Width Range	Product Number
Double Branch-2 switches	H, R, or K	30	4X	AFP4X	36", 44"	ADS22030HDFP
Double Branch-2 switches	H, R, or K	60	4X	AFP4X	36", 44"	ADS22060HDFP
Double Branch-2 switches	T	100	7X	AFP7T	36", 44"	ADS32100TDFP
Double Branch-2 switches	H, R, or K	100	5X	AFP5X	36", 44"	ADS22100HDFP
Double Branch-2 switches	H, R, or K	200	7X	AFP7X2	44"	ADS22200HDFP
Double Branch-2 switches	T	200	7X	AFP7T	36", 44"	ADS22200TD
Double Branch-switch plus space	H, R, or K	30	4X	AFP4X	36", 44"	ADS22030HSFP
Double Branch-switch plus space	H, R, or K	60	4X	AFP4X	36", 44"	ADS22060HSFP
Double Branch-switch plus space	H, R, or K	100	5X	AFP5X	36", 44"	ADS22100HSFP
Single Branch	H, R, or K	200	7X	AFP7X	36", 44"	ADS22200HBFP
Single Branch	T	200	7X	AFP7X	36", 44"	ADS22200TS
Single Branch	H, R, or K	400	10X	AFP10X	44"	ADS22400HBFP
Single Branch	T	400	10X	AFP10T	36", 44"	ADS22400TBFP
Single Branch	H, R, or K	600	10X	AFP10X	44"	ADS22600HBFP
Single Branch	T	600	10X	AFP10T	36", 44"	ADS22600TBFP

Note: 1X = 1 3/8" vertical panel space

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Mounting Hardware
Order from the Customer Service Center

Section 11

Mounting Hardware Bolt-On Spectra

- Mounting kit includes: hardware, straps, and brackets
- Filler Plate includes: filler plate and associated hardware
- Please order (1) Mounting kit & (1) Filler Plate per installation

Mounting Arrangement	Circuit Breaker	Poles	Box Width Range	X Height	Mounting Kit	Filler Plate
Dual Mounted	TEB, TED	2-pole	27"-44"	2X	AMCB4EB	AFP2TED
Dual Mounted	TEY	2-pole	27"-44"	3X	AMCB4EY	AFP3EYD
Dual Mounted	FBV, FBN, FBH, or FBL	2-pole	27"-44"	2X	AMCB4FB	AFP2FBD
Dual Mounted	FCS, FCV, FCN, FCH or FCL	2-pole	27", 31", 36", 40", 44"	3X	AMCB4FDB	AFP3FDD
Dual Mounted	FES, FEV, FEN, FEH or FEL	2-pole	27", 31", 36", 40", 44"	3X	AMCB4FEB	AFP3FED
Dual Mounted	TQD, THQD	2-pole	27"-44"	2X	AMCB4QD	AFP2QDD
Dual Mounted	THED, SED, SEH, SEL, SEP	2-pole	27"-44"	3X	AMCB4SE	AFP3SED
Dual Mounted	TEB, TED, THED, SED, SEH, SEL, SEP	3-pole	27"-44"	3X	AMCB6EB	AFP3SED
Dual Mounted	TEY	3-pole	27"-44"	3X	AMCB6EY	AFP3EYD
Dual Mounted	FBV, FBN, FBH, or FBL	3-pole	27"-44"	3X	AMCB6FB	AFP3FBD
Dual Mounted	FCS, FCV, FCN, FCH or FCL	3-pole	27", 31", 36", 40", 44"	3X	AMCB6FDB	AFP3FDD
Dual Mounted	FES, FEV, FEN, FEH or FEL	3-pole	27", 31", 36", 40", 44"	3X	AMCB6FEB	AFP3FED
Dual Mounted	TQD, THQD	3-pole	27"-44"	3X	AMCB6QD	AFP3QDD
Dual Mounted	SFH, SFL, SFP	2-pole	31"-44"	3X	AMCB4FJ	AFP3SFD
Dual Mounted	SFH, SFL, SFP	3-pole	31"-44"	3X	AMCB6FJ	AFP3SFD
Dual Mounted	FGV, FGN, FGH or FGP	2-pole	40", 44"	4X	AMCB4FGB	AFP4FGD
Dual Mounted	SGH, SGL, SGP	2-pole	40"-44"	4X	AMCB4GB	AFP4SGD
Dual Mounted	FGV, FGN, FGH or FGP	3-pole	40", 44"	4X	AMCB6FGB	AFP4FGD
Dual Mounted	SGH, SGL, SGP	3-pole	40"-44"	4X	AMCB6GB	AFP4SGD
Single Mounted	SFH, SFL, SFP	2-pole	27"-44"	3X	AMCB2FJ	AFP3SFS
Single Mounted	FGV, FGN, FGH or FGP	2-pole	27", 31", 36", 40", 44"	4X	AMCB2FGM	AFP4FGS
Single Mounted	FES, FEV, FEN, FEH or FEL	2-pole	27", 31", 36", 40", 44"	3X	AMCB2FEM	AFP3FES
Single Mounted	SGH, SGL, SGP	2-pole	27"-44"	4X	AMCB2GM	AFP4SGS
Single Mounted	SFH, SFL, SFP	3-pole	27"-44"	3X	AMCB3FJ	AFP3SFS
Single Mounted	FGV, FGN, FGH or FGP	3-pole	27", 31", 36", 40", 44"	4X	AMCB3FGM	AFP4FGS
Single Mounted	FES, FEV, FEN, FEH or FEL	3-pole	27", 31", 36", 40", 44"	3X	AMCB3FEM	AFP3FES
Single Mounted	SGH, SGL, SGP	3-pole	27"-44"	4X	AMCB3GM	AFP4SGS
Single Mounted	SKH, SKL, SKP, TKM, THKM	2-pole	40"-44"	6X	AMCB2KM	AFP6SKS
Single Mounted	SKH, SKL, SKP, TKM, THKM	3-pole	40"-44"	6X	AMCB3KM	AFP6SKS

Mounting Hardware With Filler Plate, Straps and Brackets Bolt-On Spectra™

Mounting kit with filler plate includes hardware straps, brackets and filler plate.
Filler plate kit includes filler plate and associated hardware only.

Mounting Arrangement	Breaker Frame	Number of Poles	Box Width Range	X Height	Product Number
Dual Mounted	TEB, TED	2-pole	27"-44"	2X	AMCB4EBFP
Dual Mounted	TEY	2-pole	27"-44"	3X	AMCB4EYFP
Dual Mounted	FBV, FBN, FBH, or FBL	2-pole	27"-44"	2X	AMCB4FBFP
Dual Mounted	FCS, FCV, FCN, FCH or FCL	2-pole	27", 31", 36", 40", 44"	3X	AMCB4FDBFP
Dual Mounted	FES, FEV, FEN, FEH or FEL	2-pole	27", 31", 36", 40", 44"	3X	AMCB4FEBFP
Dual Mounted	TQD, THQD	2-pole	27"-44"	2X	AMCB4QDFP
Dual Mounted	THED, SED, SEH, SEL, SEP	2-pole	27"-44"	3X	AMCB4SEFP
Dual Mounted	TEB, TED, THED, SED, SEH, SEL, SEP	3-pole	27"-44"	3X	AMCB6EBFP
Dual Mounted	SED, SEH, SEL, SEP	3-pole	27"-44"	3X	SRFB6XT1FPX
Dual Mounted	SED, SEH, SEL, SEP	3-pole	27"-44"	3X	SRFB6XT1FPK
Dual Mounted	TEY	3-pole	27"-44"	3X	AMCB6EYFP
Dual Mounted	FBV, FBN, FBH, or FBL	3-pole	27"-44"	3X	AMCB6FBFP
Dual Mounted	FCS, FCV, FCN, FCH or FCL	3-pole	27", 31", 36", 40", 44"	3X	AMCB6FDBFP
Dual Mounted	FES, FEV, FEN, FEH or FEL	3-pole	27", 31", 36", 40", 44"	3X	AMCB6FEBFP
Dual Mounted	TQD, THQD	3-pole	27"-44"	3X	AMCB6QDFP
Dual Mounted	SFH, SFL, SFP	2-pole	31"-44"	3X	AMCB4FJFP
Dual Mounted	SFH, SFL, SFP	3-pole	31"-44"	3X	AMCB6FJFP
Dual Mounted	SFH, SFL, SFP	3-pole	31"-44"	3X	SRFB6XT4FPX
Dual Mounted	SFH, SFL, SFP	3-pole	31"-44"	3X	SRFB6XT4FPK
Dual Mounted	TFJ, TFK, THFK	2-pole	36"-44"	2X	AMCB4FJPTF
Dual Mounted	TFJ, TFK, THFK	3-pole	36"-44"	3X	AMCB6FJPTF
Dual Mounted	FGV, FGN, FGH or FGP	2-pole	40", 44"	4X	AMCB4FGBFP
Dual Mounted	SGH, SGL, SGP	2-pole	40"-44"	4X	AMCB4GBFP
Dual Mounted	FGV, FGN, FGH or FGP	3-pole	40", 44"	4X	AMCB6FGBFP
Dual Mounted	SGH, SGL, SGP	3-pole	40"-44"	4X	AMCB6GBFP
Dual Mounted	SGH, SGL, SGP	3-pole	40"-44"	4X	SRFB6XT5BFPX
Dual Mounted	SGH, SGL, SGP	3-pole	40"-44"	4X	SRFB6XT5BFPK
Single Mounted	SFH, SFL, SFP	2-pole	27"-44"	3X	AMCB2FJFP
Single Mounted	TFJ, TFK, THFK	2-pole	27"-44"	2X	AMCB2FJPTF
Single Mounted	FGV, FGN, FGH or FGP	2-pole	27", 31", 36", 40", 44"	4X	AMCB2FGMFP
Single Mounted	FES, FEV, FEN, FEH or FEL	2-pole	27", 31", 36", 40", 44"	3X	AMCB2FEBFP
Single Mounted	SGH, SGL, SGP	2-pole	27"-44"	4X	AMCB2GMFP
Single Mounted	SFH, SFL, SFP	3-pole	27"-44"	3X	AMCB3FJFP
Single Mounted	SFH, SFL, SFP	3-pole	27"-44"	3X	SRFB3XT4FPX
Single Mounted	SFH, SFL, SFP	3-pole	27"-44"	3X	SRFB3XT4FPK
Single Mounted	TFJ, TFK, THFK	3-pole	27"-44"	3X	AMCB3FJPTF
Single Mounted	FGV, FGN, FGH or FGP	3-pole	27", 31", 36", 40", 44"	4X	AMCB3FGMFP
Single Mounted	FES, FEV, FEN, FEH or FEL	3-pole	27", 31", 36", 40", 44"	3X	AMCB3FEBFP
Single Mounted	SGH, SGL, SGP	3-pole	27"-44"	4X	AMCB3GMFP
Single Mounted	SGH, SGL, SGP	3-pole	27"-44"	4X	SRFB3XT5MFPX
Single Mounted	SGH, SGL, SGP	3-pole	27"-44"	4X	SRFB3XT5MFPK
Single Mounted	SKP	2-pole	27"-44"	6X	AMCB3LBFP
Single Mounted	SKH, SKL, SKP, TKM, THKM	2-pole	40"-44"	6X	AMCB2KMFP
Single Mounted	SKH, SKL, SKP, TKM, THKM	3-pole	40"-44"	6X	AMCB3KMFP
Single Mounted	SKH, SKL	3-pole	40"-44"	6X	SRFB3XT7MFPX
Single Mounted	SKH, SKL	3-pole	40"-44"	6X	SRFB3XT7MFPK

Filler Plates Bolt-On Spectra™

Filler plate kit includes filler plate and associated hardware only.

Notes: 1X = 1 3/8" vertical space. THLC 1 1/2/4 breaker no longer available.

Mounting Arrangement	Breaker Frame	Number of Poles	Box Width Range	X Height	Product Number
Dual Mounted	TQD, THQD	2-pole	27"-44"	2X	AFP2QDD
Dual Mounted	TEB, TED	2-pole	27"-44"	2X	AFP2TED
Dual Mounted	TEY	2-, 3-pole	27"-44"	3X	AFP3EYD
Dual Mounted	FBV, FBN, FBH, or FBL	2-pole	27"-44"	2X	AFP2FBD
Dual Mounted	FBV, FBN, FBH, or FBL	3-pole	27"-44"	3X	AFP3FBD
Dual Mounted	TQD, THQD	3-pole	27"-44"	3X	AFP3QDD
Dual Mounted	TEB, TED, THED, SED, SEH, SEL, SEP	2-, 3-pole	27"-44"	3X	AFP3SED
Dual Mounted	SFH, SFL, SFP	2-, 3-pole	31"-44"	3X	AFP3SFD
Dual Mounted	TFJ, TFK, THFK	2-, 3-pole	36"-44"	2X, 3X	AFP3TFD
Dual Mounted	FGV, FGN, FGH or FGP	3-pole	40", 44"	4X	AFP4FGD
Dual Mounted	SGH, SGL, SGP	2-, 3-pole	40"-44"	4X	AFP4SGD
Single Mounted	SFH, SFL, SFP	2-, 3-pole	27"-44"	3X	AFP3SFS
Single Mounted	TFJ, TFK, THFK	2-, 3-pole	27"-44"	3X	AFP3TFS
Single Mounted	FGV, FGN, FGH or FGP	2-, 3-pole	27", 31", 36", 40", 44"	4X	AFP4FGS
Single Mounted	SGH, SGL, SGP	2-, 3-pole	27"-44"	4X	AFP4SGS
Single Mounted	SKP	2-pole	27"-44"	6X	AFP5LCS
Single Mounted	SKP, SKH, SKL, TKM, THKM	3-pole	44"-44"	6X	AFP6SKS

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Mounting Hardware
Order from the Customer Service Center

Section 11

Filler Plates Plug-In or Bolt-On Spectra™

Use to cover unused spaces.
Includes filler plate support brackets and hardware.

Space X Height ¹	Box Width Range	Switchboard Section Widths	Product Number
1X	27", 31"	35	APP1S
2X	27", 31"	35	APP2S
3X	27", 31"	35	APP3S
4X	27", 31"	35	APP4S
5X	27", 31"	35	APP5S
6X	27", 31"	35	APP6S
1X	36", 40"	40	APP1
2X	36", 40"	40	APP2
3X	36", 40"	40	APP3
4X	36", 40"	40	APP4
5X	36", 40"	40	APP5
6X	36", 40"	40	APP6
1X	44"	45	APP1W
2X	44"	45	APP2W
3X	44"	45	APP3W
4X	44"	45	APP4W
5X	44"	45	APP5W
6X	044"	45	APP6W

¹ X-height: 1X = 1 3/8"

Mounting Hardware Plug-In or Bolt-On Spectra™ ADS Switch Replacement Load Base Kits

Includes load base, clips and lugs.

Replacement for Load Base Part Number	Load Base Ampere Rating	Load Base - No. of Poles	Load Base Voltage	Product Number
ADS22030HD	-	-	-	331A1519G1
ADS32030HD	-	-	-	331A1519G2
ADS322060HD	-	-	-	331A1519G3
ADS32060HD	-	-	-	331A1519G4
ADS26030HD	-	-	-	331A1519G5
ADS36030HD	-	-	-	331A1519G6
ADS26060HD	-	-	-	331A1519G7
ADS36060HD	-	-	-	331A1519G8
ADS36200JD	-	-	-	331A1519G12
ADS26200JD	-	-	-	331A1519G16
ADS36200JM	-	-	-	331A1519G20
ADS26200JM	-	-	-	331A1519G22
-	100A	2-pole	240V & 600V	331A1519G9
-	100A	3-pole	240V & 600V	331A1519G10
-	100A	3-pole	240V & 600V	331A1519G14
-	100A	2-pole	240V & 600V	331A1519G18
-	200A	3-pole	240V & 600V	331A1519G11
-	200A	2-pole	240V & 600V	331A1519G13
-	200A	2-pole	240V & 600V	331A1519G15
-	200A	2-pole	240V & 600V	331A1519G17
-	200A	3-pole	240V & 600V	331A1519G19
-	200A	2-pole	240V & 600V	331A1519G21
-	400A	2-pole	240V & 600V	331A1545G1
-	400A	3-pole	240V & 600V	331A1545G3
-	400A	2-pole	240V & 600V	331A1545G5
-	400A	3-pole	240V & 600V	331A1545G7
-	600A	2-pole	240V & 600V	331A1545G2
-	600A	3-pole	240V & 600V	331A1545G4
-	600A	2-pole	240V & 600V	331A1545G6
-	600A	3-pole	240V & 600V	331A1545G8
-	400-1200A	-	-	331A1543G1

Mounting Hardware Single Breaker Plug-In Spectra™

Included when ordering AMC module. Only required when mounting breaker on existing module.
Kit contains screws and washers to mount one circuit breaker on AMC circuit breaker mounting module.

Circuit Breaker Mounting Module Part Number	Product Number
AMC6EB	AHKE1
AMC4SE	
AMC4EB	
AMC6EBS	
AMC6EL	AHKEL1
AMC2FLS	AHKF1
AMC6FJ	AHKG1
AMC4FJ	
AMC3FJ	
AMC2FJ	
AMC6FLS	AHKJ1
AMC3FLS	
AMC4FLS	
AMC2GM	
AMC6GB	AHKL1
AMC4GB	
AMC3GM	
AMC2JK	
AMC6JK	AHKL1
AMC4JK	
AMC3JK	
AMC3LB	
AMC6LB	AHKQ1
AMC4QD	
AMC6QD	
FCS, FCV, FCN, FCH or FCL	
FGV, FGN, FGH or FGP	AHKFD1
	AHKFG1

Mounting Hardware—Hardware only; no brackets or straps Bolt-On Spectra™

Breaker Frame	Product Number
SE	AHKBE1
SF	AHKB1
SG	AHKBG1
THQD	AHKBQ1
FCS, FCV, FCN, FCH or FCL	AHKBFD1
FGV, FGN, FGH or FGP	AHKBFG1
FB	AHKBFB1

Panelboards

Lighting Distribution Panelboards

Renewal Parts

Main Lug Modules; Neutral and Ground Kits
Plug-In or Bolt-On

Section 11

Lug Kits and Modules Plug-In Spectra™

- FP suffix indicates all AFPML cover plates included to fit applicable box widths.
- Can be converted to dual main lug version by adding lug kits (see Accessories).
- Mechanical lug modules can be converted to compression lug modules by replacing standard lugs with AMKP compression lug kit (see Accessories)
- Can be used for feed-thru lugs application by replacing standard cover plate with AFL feed-thru lug cover plate kit (see Accessories).

Lug Ampere Rating	Lug Type	X Height	Lugs Per Phase	Wires per Lug	Wire Range (Cu/Al)	Included Cover Plate	Box Width Range	Product Number
250	Mechanical	4X	1	1	#6-350kcmil	AFPML4X	27",36"	AML3250SFP ¹
250	Mechanical	6X	1	1	#6-350kcmil	AFPML6X	36"	AML3250FP
400	Mechanical	4X	1	2	#2-500kcmil	AFPML4X	27",36",44"	AML3400SFP ¹
400	Mechanical	6X	1	2	#2-500kcmil	AFPML6X	36",44"	AML3400FP
600	Mechanical	4X	1	2	#2-500kcmil	AFPML4X	27",36",44"	AML3600SFP ¹
600	Mechanical	6X	1	2	#2-500kcmil	AFPML6X	36",44"	AML3600FP
800	Mechanical	6X	2	2	#2-500kcmil	AFPML6XW	36",44"	AML3800FP
1200	Mechanical	6X	2	2	#2-500kcmil	AFPML6XW	36",44"	AML3120FP
250	Compression	6X	2	1	350kcmil	AFPML6X	36"	AML3250CFP
400	Compression	6X	2	1	500kcmil	AFPML6X	36",44"	AML3400CFP
600	Compression	6X	2	1	500kcmil	AFPML6X	36",44"	AML3600CFP
800	Compression	6X	4	1	500kcmil	AFPML6XW	36",44"	AML3800CFP
1200	Compression	6X	4	1	500kcmil	AFPML6XW	36",44"	AML3120CFP

¹4X modules cannot be converted to compression lug version.

Lug Kits and Modules Plug-In or Bolt-On Spectra™—Neutral

- Includes mechanical lugs and bonding strap.
- 250 to 600A neutral kits can be converted to dual main version by doubling the main lug quantity using lug kits (see Accessories).
- Main lug on neutral kit can be converted to compression main using AMKP lug kit.

Lug Amp Rating	No. of Main Lugs	No. of Wires	Wire Range (Cu/Al)	Product Number
Bolt-On				
250/400	Single/Dual	2 (MAIN) 16 5 24	#2 - 600kcmil #14 - 2/0 #6 - 300kcmil #14 - #4	ANKN400
600/800/1200	Single/Dual	8 (MAIN) 9 10 10	#2 - 600kcmil #14 - 2/0 #6 - 300kcmil #14 - #4	ANKN120
Plug-In				
800	Dual	8 (MAIN) 8 10 4	#2 - 500kcmil #14 - 2/0 #6 - 300kcmil #2 - 500kcmil	ANK800D
1200	Dual	8 (MAIN) 8 10 4	#2 - 500kcmil #14 - 2/0 #6 - 300kcmil #2 - 500kcmil	ANK120D

For 3ph, 4W single-section panelboards, use a standard neutral.

For 3ph, 4W multi-section panelboards, use a standard neutral on the last section, and a dual main neutral on the first and middle sections.

Lug Kits and Modules Plug-In or Bolt-On Spectra™—Ground

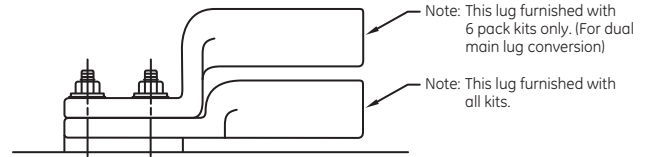
- AEG10 and AEG21 should be ordered in multiples of 10 due to 10 kits per carton bulk-packaging.
- AEG21S and AEG31S are packaged as quantity 1 kit per carton.

Bonding Type	Total Circuits	No. of Wires	Wire Range (Cu/Al)	Product Number
Bonded	10	10	#6-2/0 Cu/Al	AEG10
Bonded	21	9	Solid: #14-#8 Cu or #12-#8 Al or Stranded: #12-#8 Cu or #12-#8 Al or Stranded: #10-#4 Cu or #10-#4 Al	AEG21
Insulated/Isolated	21	9	Solid: #14-#8 Cu or #12-#8 Al or Stranded: #12-#8 Cu or #12-#8 Al or Stranded: #10-#4 Cu or #10-#4 Al	AEG21S
Insulated/Isolated	31	10	#6-2/0 Cu/Al	AEG31S

Feed Thru Lug Cover Plate Kits

- Use to convert AML main lug module to feed thru lug module
- Kit includes barrier and oversized cover plates.
(Discard original cover plates.)

Lug Amp Rating	X Height	Box Width Range	Product Number
250/400/600	9X	27", 36", 44"	AFL600
800/1200	12X	36", 44"	AFL120



Crimp Lugs

Mechanical Lug Kits and Modules

- Use to convert AML main mechanical lug modules or ANK neutral modules to dual main lug version.
- Can be used to replace standard lugs with oversized lugs.

Wire Range (Cu/Al)	Lugs Per Kit	Wires per Lug	Product Number
#6-350kcmil	3	1	AMK350
#2-500kcmil	3	2	AMK500
#2-600kcmil	3	2	AMK600
3/0-750kcmil	3	2	AMK750

Compression Lug Kits

- Use to replace standard load-side mechanical lugs on ADS branch switches.
- Each kit includes 3 lugs.

Wire Range	Lugs Per Phase	For Switch Amperes	Product Number
#8-1/0 Cu/Al	1	30, 60, or 100	KLP101
#4-300kcmil Cu/Al	1	200	KLP300
2/0-500kcmil Cu/Al	2, 4	800 or 1200	KLP500
400-500kcmil Cu or 400-600kcmil Al	2, 4	800 or 1200	KLP600
500-750kcmil Cu/Al	2, 4	800 or 1200	KLP750

Compression Lug Kits and Modules

Use to convert AML main mechanical lug modules to compression lug version.

Wire Size	Package Type	Crimp Tool Die Cat. No. Homac	Crimp Tool Die Cat. No. Burndy	Crimp Tool Die Cat. No. T&B	Product Number
1/0	3 PACK	15CA52	296	50	AMKP101
1/0	6 PACK	15CA52	296	50	AMKP2101
2/0	3 PACK	15CA52	297	54H	AMKP202
2/0	6 PACK	15CA52	297	54H	AMKP2202
3/0	3 PACK	15CA66	467	60	AMKP303
3/0	6 PACK	15CA66	467	60	AMKP2303
4/0	3 PACK	15CA71H	298	66	AMKP404
4/0	6 PACK	15CA71H	298	66	AMKP2404
250kcmil	3 PACK	15CA76	324	71H	AMKP250
250kcmil	6 PACK	15CA76	324	71H	AMKP2250
300kcmil	3 PACK	15CA87H 15C87	470	76	AMKP300
300kcmil	6 PACK	15CA87H 15C87	470	76	AMKP2300
350kcmil	3 PACK	15CA96H 15C96H	299	87H	AMKP350
350kcmil	6 PACK	15CA96H 15C96H	299	87H	AMKP2350
400kcmil	3 PACK	15CA96H 15C96H	472	94H	AMKP400
400kcmil	6 PACK	15CA96H 15C96H	472	94H	AMKP2400
500kcmil	3 PACK	15CA106A 15C106R	300	99H	AMKP500
500kcmil	6 PACK	15CA106A 15C106R	300	99H	AMKP2500
600kcmil	3 PACK	15CA115H 15C115H	473	106H	AMKP600
600kcmil	6 PACK	15CA115H 15C115H	473	106H	AMKP2600
700/750 kcmil	3 PACK	15C125H	936	115H	AMKP750
700/750 kcmil	6 PACK	15C125H	936	115H	AMKP2750

Notes: For dual main applications, double the kit quantity.

Permanent Circuit Number Tabs

For Circuit Numbers	Product Number
1-49	APN49
1-99	APN99

Panelboards

Lighting Distribution Panelboards

Merchandise

Renewal Parts

Interiors, Boxes and Fronts

Order from Customer Service Center

Section 11

Product Features

- In selecting an interior X-height, add up all required main and branch module X-heights, plus any required spaces for future.
- UL Service Entrance label is included on all interiors.

Boxes

Panel Current Rating (amperes)	Space X Height	Box Width/Depth	Box Height (inches)	Product Number
250, 400	18	27" W x 14.5" D	64.63	APB2765A
250	28	27" W x 14.5" D	64.63	APB2765C
250, 400, 600	38	27" W x 14.5" D	89.25	APB2789
400	28	27" W x 14.5" D	75.5	APB2775
600	23	27" W x 14.5" D	64.63	APB2765B
250, 400, 600	18, 28	36" W x 11.5" D	64.63	APB3665
400, 800, 1200	28	36" W x 11.5" D	75.5	APB3675
250, 400, 600, 800, 1200	38	36" W x 11.5" D	89.25	APB3689
250, 400, 600, 800, 1200	43, 48	36" W x 11.5" D	96.13	APB3696
400, 600	18, 23	44" W x 11.5" D	64.63	APB4465
400, 800, 1200	23, 28	44" W x 11.5" D	75.5	APB4475
400, 600, 800, 1200	38	44" W x 11.5" D	89.25	APB4489
400, 600, 800, 1200	43, 48	44" W x 11.5" D	96.13	APB4496

Front w/Door

Panel Current Rating (amperes)	Space X Height	Box Width/Depth	Box Height (inches)	Product Number
250	18	27" W x 14.5" D	64.63	APF6518NS
250	28	27" W x 14.5" D	64.63	APF6528NS
250	38	27" W x 14.5" D	89.25	APF8938NS
400	18	27" W x 14.5" D	64.63	APF6518S
400	28	27" W x 14.5" D	75.5	APF7528S
600	23	27" W x 14.5" D	64.63	APF6523S
600	38	27" W x 14.5" D	89.25	APF8938S

4-pc Fronts

Panel Current Rating (amperes)	Space X Height	Box Width/Depth	Box Height (inches)	Product Number
250	18	36" W x 11.5" D	64.63	APF6518N
250	28	36" W x 11.5" D	64.63	APF6528N
250	38	36" W x 11.5" D	89.25	APF8938N
250	53	36" W x 11.5" D	96.13	APF9653N
400	18	36" W x 11.5" D	64.63	APF6518
400, 800, 1200	28	36" W x 11.5" D	75.5	APF7528
400, 600, 800, 1200	38	36" W x 11.5" D	89.25	APF8938
600	23	36" W x 11.5" D	64.63	APF6523
400, 600, 800, 1200	48	36" W x 11.5" D	96.13	APF9648
800	23	36" W x 11.5" D	75.5	APF7523
800, 1200	43	36" W x 11.5" D	96.13	APF9643
400	18	44" W x 11.5" D	64.63	APF6518W
600	23	44" W x 11.5" D	64.63	APF6523W
800	23	44" W x 11.5" D	75.5	APF7523W
400, 1200	28	44" W x 11.5" D	75.5	APF7528W
400, 600, 800, 1200	38	44" W x 11.5" D	89.25	APF8938W
800, 1200	43	44" W x 11.5" D	96.13	APF9643W
400, 600	48	44" W x 11.5" D	96.13	APF9648W

Interior Aluminum

Panel Current Rating (amperes)	Space X Height	Product Number
250	18	APN1802U
250	28	APN2802U
250	38	APN3802U
250	53	APN5302U
400	18	APN1804U
400	28	APN2804U
400	38	APN3804U
400	48	APN4804U
600	23	APN2306U
600	38	APN3806U
600	48	APN4806U
800	23	APN2308U
800	38	APN3808U
800	43	APN4308U
1200	28	APN2812U
1200	38	APN3812U
1200	43	APN4312U

Interior Copper

Panel Current Rating (amperes)	Space X Height	Product Number
250	18	APN1802UB4
250	28	APN2802UB4
250	38	APN3802UB4
250	53	APN5302UB4
400	18	APN1804UB4
400	28	APN2804UB4
400	38	APN3804UB4
400	48	APN4804UB4
600	23	APN2306UB4
600	38	APN3806UB4
600	48	APN4806UB4
800	23	APN2308UB4
800	38	APN3808UB4
800	43	APN4308UB4
1200	28	APN2812UB4
1200	38	APN3812UB4
1200	43	APN4312UB4

Panelboards

Lighting Distribution Panelboards

Type SCP Plus

Renewal Parts

Enclosure Options, Mounting Hardware and Spare Parts

Order through the Customer Service Center unless stated otherwise below.

Section 11

Boxes

Box Width/Depth	X Height	Box Height (inches)	Product Number
31"W x 11.5"D	15	49.375	ACB311149
31"W x 11.5"D	18	53.5	ACB311153
31"W x 11.5"D	21	57.625	ACB311157
31"W x 11.5"D	24	61.75	ACB311161
31"W x 11.5"D	27	65.875	ACB311165
31"W x 11.5"D	30	70	ACB311170
31"W x 11.5"D	33	74.125	ACB311174
31"W x 11.5"D	36	78.25	ACB311178
31"W x 11.5"D	39	82.275	ACB311182
31"W x 11.5"D	42	86.5	ACB311186
40"W x 11.5"D	15	49.375	ACB401149
40"W x 11.5"D	18	53.5	ACB401153
40"W x 11.5"D	21	57.625	ACB401157
40"W x 11.5"D	24	61.75	ACB401161
40"W x 11.5"D	27	65.875	ACB401165
40"W x 11.5"D	30	70	ACB401170
40"W x 11.5"D	33	74.125	ACB401174
40"W x 11.5"D	36	78.25	ACB401178
40"W x 11.5"D	39	82.275	ACB401182
40"W x 11.5"D	42	86.5	ACB401186

Box dimensions are inside dimensions. Add 1/4-inch for outside dimensions.
Boxes furnished with no knockouts.

Fronts

Box Width/Depth	X Height	Box Height (inches)	Product Number
31"W x 11.5"D	15	49.375	ACF3149S
31"W x 11.5"D	18	53.5	ACF3153S
31"W x 11.5"D	21	57.625	ACF3157S
31"W x 11.5"D	24	61.75	ACF3161S
31"W x 11.5"D	27	65.875	ACF3165S
31"W x 11.5"D	30	70	ACF3170S
31"W x 11.5"D	33	74.125	ACF3174S
31"W x 11.5"D	36	78.25	ACF3178S
31"W x 11.5"D	39	82.275	ACF3182S
31"W x 11.5"D	42	86.5	ACF3186S
40"W x 11.5"D	15	49.375	ACF4049S
40"W x 11.5"D	18	53.5	ACF4053S
40"W x 11.5"D	21	57.625	ACF4057S
40"W x 11.5"D	24	61.75	ACF4061S
40"W x 11.5"D	27	65.875	ACF4065S
40"W x 11.5"D	30	70	ACF4070S
40"W x 11.5"D	33	74.125	ACF4074S
40"W x 11.5"D	36	78.25	ACF4078S
40"W x 11.5"D	39	82.275	ACF4082S
40"W x 11.5"D	42	86.5	ACF4086S

Flush fronts (F) are 2 inches larger than box. Surface fronts (S) are 1/4-inch larger than box.

Note: If filler plates for SCP+ panels are required, please contact Houston equipment plant.

Note: THLC 1/2/4 breaker no longer available.

Mounting Hardware—Hardware Kit and Straps

Mounting Arrangement	Breaker Frame	Maximum Breaker Amperage	Breaker Number of Poles	Product Number
Dual Mounted	SHE, SEL, SED, SEP	150A		ACTMKSE
Dual Mounted	TEB, TED, THED	150A	single-pole	ACTMKEB1P
Dual Mounted	TEB, TED, THED	150A	two-pole	ACTMKEB2P
Dual Mounted	TEB, TED, THED	150A	three-pole	ACTMKEB3P
Dual Mounted	TFK, SFH, SFL, SFP	250A		ACTMKSF
Dual Mounted	TQD, THQD	225A	two-pole	ACTMKQD2P
Dual Mounted	TQD, THQD	225A	three-pole	ACTMKQD3P
Dual Mounted	TJD, TJJ, TJK	400A		ACTMKJD
Dual Mounted	SGD, SGH, SGL, SGP	400A, 600A		ACTMKSG
Single Mounted	SGD, SGH, SGL, SGP	400A, 800A		ACSMKSG
Single Mounted	SKH, SKL	800A, 1200A		ACSMKSK
Single Mounted	TB4	400A		ACSMKTB4
Single Mounted	TB6	600A		ACSMKTB6
Single Mounted	TB8	800A		ACSMKTB8

Mounting Hardware—Filler Plate and Filler Hardware

Mounting Arrangement	Breaker Frame	Maximum Breaker Amperage	Breaker Number of Poles	Product Number
Dual Mounted	SHE, SEL, SED, SEP	150A		ACTFPKSE
Dual Mounted	TEB, TED, THED	150A	single-pole	ACTFPKEB1P
Dual Mounted	TEB, TED, THED	150A	two-pole	ACTFPKEB2P
Dual Mounted	TEB, TED, THED	150A	three-pole	ACTFPKEB3P
Dual Mounted	TFK, SFH, SFL, SFP	250A		ACTFPKSF
Dual Mounted	TQD, THQD	225A	two-pole	ACTFPKQD2P
Dual Mounted	TQD, THQD	225A	three-pole	ACTFPKQD3P
Dual Mounted	TJD, TJJ, TJK	400A		ACTFPKJD
Dual Mounted	SGD, SGH, SGL, SGP	400A, 600A		ACTFPKSG
Single Mounted	SGD, SGH, SGL, SGP	400A, 800A		ACSFPSKSG
Single Mounted	SKH, SKL	800A, 1200A		ACSFPSKSK
Single Mounted	TB4	400A		ACSFPKTB4

Mounting Hardware—Hardware to Mount One Breaker

Mounting Arrangement	Breaker Frame	Maximum Breaker Amperage	Breaker Number of Poles	Product Number
Dual Mounted	SHE, SEL, SED, SEP	150A		ACTHKSE
Dual Mounted	TEB, TED, THED	150A	single-pole	ACTHKEB1P
Dual Mounted	TEB, TED, THED	150A	two-pole	ACTHKEB2P
Dual Mounted	TEB, TED, THED	150A	three-pole	ACTHKEB3P
Dual Mounted	TFK, SFH, SFL, SFP	250A		ACTHKSF
Dual Mounted	TQD, THQD	225A	two-pole	ACTHKQD2P
Dual Mounted	TQD, THQD	225A	three-pole	ACTHKQD3P
Dual Mounted	TJD, TJJ, TJK	400A		ACTHKJD
Dual Mounted	SGD, SGH, SGL, SGP	400A, 600A		ACTHKSG
Single Mounted	SGD, SGH, SGL, SGP	400A, 800A		ACSHKSG
Single Mounted	SKH, SKL	800A, 1200A		ACSHKSK
Single Mounted	TB4	400A		ACSHKTB4

Panelboards

Lighting Distribution Panelboards

Power

Renewal Parts

Type **CCB** and **QMR** Panelboards

Order through the Customer Service Center unless stated otherwise below.

Section 11

Mounting Hardware—Copper Straps for Use on Cu or Al Main Bus Dual Mounted

Breaker Frame	Kit Ampere Rating	Product Number
TEB/TED	150A	TED1DPK
TFJ/TFK/TFL	225A	TF2DPK
TQD	225A	TQ2DPK
TJD/TJJ/TJK	400A	TJ4DPK
TJK	600A	TJ6DPK
TLB1/THLC1	150A	THLC1DPK
TEL	150A	TEL1DPK
TB1	150A	TB1DPK
SFH/SFL	225A	SF2DPK ^{1,2}

¹If mounting hardware exists – must order SFCARE for additional insulators.

²225A Maximum

Device and Hardware Suffix Selection

Panelboard Lighting Type	Device Type		
	Twin (Double) Mount	Single Mount	TQD, TED, Panel Subfeed
CCB/QMR	DPK	SPK	—
Switchboards	DPK	SPK	—

To ensure a unit shipment, you must order using the device product number plus suffix; orders for the device and kit as separate items will ship as separate items.

Mounting Hardware—Copper Straps for Use on Cu or Al Main Bus Single Mounted

Breaker Frame	Kit Ampere Rating	Product Number
TKM8/THKM8	800A	TK8SPK ³
TB1	100A	TB1SPK ³
TB6	600A	TB6SPK ³
TB8	800A	TB8SPK ³
TKM12/THKM12	1200A	TK12SPK ^{3,4}
SKH8	800A	SK8SPK ³
SKH12	1200A	SK12SPK ³

³Deep mounted interior is required.

⁴Requires 7x of space if mounted at extreme end (top or bottom) of interior or 8x if mounted in center of interior.

Panelboards

Power Panelboards (Spectra® Series)

Power

Renewal Parts

Type CCB and QMR Panelboards

Order through the Customer Service Center unless stated otherwise below.

Section 11

Replacement Panelboard CCB Front (Flush or Surface)

Box Width/Depth	X Height	Box Height (inches)	Product Number ¹
31" Wide x 9 1/2"	15X	49	CBA3121S,F
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	18X	53 1/2	CBA3124S,F
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	21X	57 5/8	CBA3127S,F
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	24X	61 3/4	CBA3130S,F
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	30X	70	CBA3136S,F
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	42X	86 1/2	CBA3148S,F
Deep Box (No Knockouts)			
35" Wide x 11 1/2"	36X	78 1/4	CBA3542S,F
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	21X	57 5/8	CBA4027S,F
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	24X	61 3/4	CBA4030S,F
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	30X	70	CBA4036S,F
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	33X	74 1/8	CBA4039S,F
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	36X	78 1/4	CBA4042S,F
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	39X	82 3/8	CBA4045S,F
Deep Box (No Knockouts)			

¹Flush fronts (F) are 2 inches larger than box. Surface fronts (S) are 1/4-inch larger than box.

Replacement Panelboard CCB Box

Box Width/Depth	X Height	Box Height (inches)	Product Number
31" Wide x 9 1/2"	15X	49	DASW3121
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	21X	57 5/8	DASW3127
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	24X	61 3/4	DASW3130
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	27X	65 7/8	DASW3133
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	30X	70	DASW3136
Deep Box (No Knockouts)			
31" Wide x 9 1/2"	36X	78 1/4	DASW3142
Deep Box (No Knockouts)			
35" Wide x 11 1/2"	33X	74 1/8	DACB3539
Deep Box (No Knockouts)			
35" Wide x 11 1/2"	39X	82 3/8	DACB3545
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	21X	57 5/8	DACB4027
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	24X	61 3/4	DACB4030
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	27X	65 7/8	DACB4033
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	30X	70	DACB4036
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	33X	74 1/8	DACB4039
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	36X	78 1/4	DACB4042
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	39X	82 3/8	DACB4045
Deep Box (No Knockouts)			
40" Wide x 11 1/2"	42X	86 1/2	DACB4048
Deep Box (No Knockouts)			

Note: Box dimensions are inside dimensions. Add 1/4-inch for outside dimensions.

Boxes furnished without knockouts as standard.

Filler Plates

Panel Type	X Height	Product Number
QMR	1X	QMRFP1
QMR	2X	QMRFP2
QMR	5X	QMRFP5
QMR	3X	75C145005G703
CCB	1X	CCBFP1
CCB	3X	CCBFP3
CCB	5X	CCBFP5
CCB	2X	75C145005G711
CCB	6X	75C145005G715
SCP+	1X	SCFP1
SCP+	2X	SCFP2
SCP+	3X	SCFP3
SCP+	5X	SCFP5

(Order from Local Sales Office or Equipment Plant)

Panelboards

Spectra™ Series Panelboards

Power

Renewal Parts

Type [CCB](#) and [QMR](#) Panelboards

Order through the Customer Service Center unless stated otherwise below.

Section 11

QMR Fusible Switch 240V^{1, 2}

Switch Amps	Number of Poles	Description	Product Number
30	3	Left Hand Unit	THFP321L
30	3	Right Hand Unit - 3X	THFP321X
60	3	Right Hand Unit	THFP322
60	3	Left Hand Unit	THFP322L
60	3	Right Hand Unit - 3X	THFP322X
60	3	Left Hand Unit - 3X	THFP322XL
100	3	Right Hand Unit	THFP323
100	3	Left Hand Unit	THFP323L
200	3	Center Mount	THFP324
400	3	Center Mount	THFP325
600	3	Center Mount	THFP326

¹Limited availability. Obsolete when inventory depleted.

²Switch and mounting hardware kit must be ordered separately

QMR Fusible Switch 600V^{1, 2}

Switch Amps	Number of Poles	Description	Product Number
30	3	Right Hand Unit	THFP361
30	3	Left Hand Unit	THFP361L
60	3	Right Hand Unit	THFP362
60	3	Left Hand Unit	THFP362L
100	3	Right Hand Unit	THFP363
100	3	Left Hand Unit	THFP363L
200	3	Center Mount	THFP364
400	3	Center Mount	THFP365
600	3	Center Mount	THFP366
800	3	Center Mount	THFP367
1200	3	Center Mount	THFP368

QMR Mounting Hardware Kits Are Copper for Use with Cu or Al Main Bus Dual Mounted

Breaker Frame	Kit Ampere Rating	Voltage	Product Number
THFP	30-60A	240 & 600V	THFP62DPK
THFP	100A	600V	THFP63DPKJ
THFP	100A	240 & 600V	THFP63DPK
THFP	100-30/60	600V	THFP63DPKC

Note: QMR Power Panelboards 600V, 100A double branch units require a minimum width of 40". 600V, 30A and 60A double branch, and 240V, 30A, 60A and 100A single and double branch units can be built in a 35" wide enclosure.

QMR Mounting Hardware Kits Are Copper for Use with Cu or Al Main Bus Single Mounted

Breaker Frame	Kit Ampere Rating	Voltage	Product Number
THFP	30/60A	240V	THFP22SPK
THFP	30/60/100A	240V & 600V	THFP62SPK
THFP	100A	600V	THFP63SPK
THFP	200A	240 & 600V	THFP64SPK
THFP	400A	240 & 600V	THFP65SPK
THFP	600A	240 & 600V	THFP66SPK
THFP	1200A	240 & 600V	THFP67SPK

Note: QMR Power Panelboards 600V, 100A double branch units require a minimum width of 40". 600V, 30A and 60A double branch, and 240V, 30A, 60A and 100A single and double branch units can be built in a 35" wide enclosure.

Maximum Horsepower Ratings QMR Fusible Switch

Rating in Amperes ³	Vac							Vdc	
	2-Pole				3-Pole			2-Pole	3-Pole
	120	240	480	600	240	480	600	125	250
With Standard and Fuses (Class H)									
30	1/2	1 1/2	3	3	3	5	7 1/2	2	5
60	1 1/2	3	5	10	7 1/2	15	15	5	10
100	—	7 1/2	10	15	15	25	30	—	20
200	—	15	25	30	25	50	60	—	40
400	—	—	—	—	50	100	125	—	—
600	—	—	—	—	75	150	200	—	—
With "Time-delay" Fuses (Class H)									
30	2	5	10	15	10	20	20	3	—
60	3	10	20	25	20	40	50	5	—
100	—	15	30	40	30	60	75	—	—
200	—	30	50	50	60	125	150	—	—
400	—	—	—	—	125	250	350	—	—
600	—	—	—	—	200	400	500	—	—

³Ratings are based on latest revision of the National Electric Code Article 430.

Horsepower ratings for switches with standard class H fuses are based on one-time fuses having minimum time-delay.

When time-delay fuses are used the horsepower ratings are maximum for the switches.

QMR Fusible Switch Terminations⁴

Switch Amperes	Voltage	Wire Range (Cu/Al)	Wires per Lug	Lugs per Phase
30	250/600	#14-10	1	1
60	250/600	#14-2	1	1
100	250/600	#10-1/0	1	1
200	250/600	#6-250kcmil or 2(1/0-250kcmil)	1	1
400	250/600	#6-250kcmil or 2(1/0-250kcmil)	1	1
600	250/600	250-350kcmil Cu or 350-500kcmil Al	2	2
800	250/600	#4-600kcmil	1	4
1000	250/600	#4-600kcmil	1	4

⁴For optional lugs refer to GEH-460B

Available Publications

Spectra™ Series Power Panels Plug-In and Bolt-On

Circuit Breaker Mounting Instructions (Modules)		
TKM, THKM, TK4V,	LA, SKPA	GEH-5623
TJK, TJD, TJJ, THJK, TJ4V, THJ4V, TJL4V		GEH-5624
TEB, TED, THED, TEL, SEDA, SEHA, SELA, SEPA		GEH-5625
TFJ, TFK, THFK, TFL, SFHA, SFLA, SEPA		GEH-5626
TQD, THQD		GEH-5643
THLC1		GEH-5644
SGDA, SGHA, SGLA, SGPA (3 pole)		GEH-5673
SGDA, SGHA, SGLA, SGPA (2 pole)		GEH-5674
THLC2, THLC4, TLB4 (3 pole)		GEH-5675
THLC2, THLC4, TLB4 (2 pole)		GEH-5676
TEY, THQB, THQB		GEH-5677
Circuit Breaker Mounting Hardware Kits		
TQD, THQD, SE TEB, TED, THED, THLC1, SF, TFJ, TFK, THFK, SG, TJK, THJK, TJD, TJJ, THLC2, THLC4		GEH-5913
Installing Lugs		
Type AML Main Lug Kits		GEH-5588
Type AML Feed Thru Main Lug Kits		GEH-5630
Installing Fusible Switches		
Fuse Pullers		DEH-034
Class R Fuse Rejector Kit		GEH-4616
R Fuse Rejection Pin, 400-600 Ampere Switch Units		GEH-5577
Lug Kits into GE Type ADS Switches		GEH-5944
Alternate Lugs, 30-1200 Ampere Fusible Switch Units		GEJ-3050
Installing Fusible Switch Expansion Kits		
30/60 Ampere Expansion Kit		GEH-5547
60A, 100A Expansion Kits for Type ADS Fusible Switch Units		GEH-5581
200 Ampere Expansion Kit (J, T Fuses)		GEH-5582
200 Ampere Expansion Kit (H, K, R Fuses)		GEH-5889
Handle and Load Base Replacements on Fusible Switches		
Handle Replacement: 400-1200 Ampere Switches		GEH-5553
Load Base Replacement for Type ADS 400-600 Ampere Switches		GEH-5576
Miscellaneous		
Typical - Fusible Mains and Feeders		DE-166
Technical Data, Spectra Series Panelboards - Pressure Locked Connectors		DE-168

Spectra™ Series Plug-In (Only)

Circuit Breaker Mounting Instructions (Modules)		
TKM, THKM, TK4V,	LA, SKPA	GEH-5623
TJK, TJD, TJJ, THJK, TJ4V, THJ4V, TJL4V		GEH-5624
TEB, TED, THED, TEL, SEDA, SEHA, SELA, SEPA		GEH-5625
TFJ, TFK, THFK, TFL, SFHA, SFLA, SEPA		GEH-5626
TQD, THQD		GEH-5643
SGDA, SGHA, SGLA, SGPA (3 pole)		GEH-5673
SGDA, SGHA, SGLA, SGPA (2 pole)		GEH-5674
THLC2, THLC4, TLB4 (3 pole)		GEH-5675
Circuit Breaker Mounting Hardware Kits		
TQD, THQD, SE TEB, TED, THED, THLC1, SF, TFJ, TFK, THFK, SG, TJK, THJK, TJD, TJJ, THLC2, THLC4		GEH-5913
Installing Lugs		
Type AML Main Lug Kits		GEH-5588
Type AML Feed Thru Main Lug Kits		GEH-5630

Spectra™ Series Plug-In (Only) (continued)

Installing Fusible Switches	
Fuse Pullers	DEH-034
Class R Fuse Rejector Kit	GEH-4616
R Fuse Rejection Pin, 400-600 Ampere Switch Units	GEH-5577
Lug Kits into GE Type ADS Switches	GEH-5944
Alternate Lugs, 30-1200 Ampere Fusible Switch Units	GEJ-3050
Installing Fusible Switch Expansion Kits	
30/60 Ampere Expansion Kit	GEH-5547
60A, 100A Expansion Kits for Type ADS Fusible Switch Units	GEH-5581
200 Ampere Expansion Kit (J, T Fuses)	GEH-5582
200 Ampere Expansion Kit (H, K, R Fuses)	GEH-5889
Handle and Load Base Replacements on Fusible Switches	
Handle Replacement: 400-1200 Ampere Switches	GEH-5553
Load Base Replacement for Type ADS 400-600 Ampere Switches	GEH-5576
Miscellaneous	
Typical - Fusible Mains and Feeders	DE-166
Technical Data, Spectra Series Panelboards - Pressure Locked Connectors	DE-168

Spectra™ Series Bolt-On (Only)

Circuit Breaker Mounting Instructions (Straps)	
TEB, TED, THED, SED, SEH, SEL, SEP	DEH-047
SGH, SFL, SFP	DEH-059
SGH, SGL, SGP	DEH-060
SKH, SKL, SKP, TKM, THKM	DEH-061
TEY	DEH-062
TQD, THQD	DEH-065

A-Series™ II Panelboards

Lighting Panel Rating Labels	DEH-40007
GE Panelboards	DEA-185
Stainless Steel Enclosures	DET-386
AD Plus Lighting Panelboards	DEP-131
UL Recognized Series Connected Ratings	DET-008

A-Series™ II Lighting Control Panel

Lighting Control Panel Catalog/Selection Guide	DEA-388
Fact Sheet	DET-398

Pro-Stock Panelboard

Selection and Pricing Guide	DEP-104A
Fact Sheet	DET-233
Product Summary	DEE-240
Initial Stock Order Form	DEZ-176
Branch Breaker Recommended Stock List	DEE-241
Pro-Stock Literature Order Form	DEZ-178
Sell Sheet	DEA-232
New Product Commercialization Summary	DEE-240
Q & A	DEQ-068

NOTES:

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