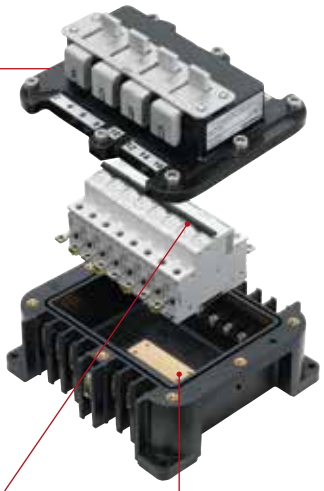
SIMPLE OPERATION AND MAINTENANCE

External actuation of the main breaker, as well as branch breakers through a weatherproof window, means you don't have to open an enclosure except for maintenance or reconfiguration. The lightweight breaker cover can be quickly and safely opened in the field while still maintaining the flameproof integrity of individual breaker housings.

Only P Series PowerPlex panelboards feature circuit breaker housings with a flameproof labyrinth joint, allowing use of off-the-shelf breakers rather than costly, specialized sealed breakers. Breaker housings can be opened easily using hand tools. There has never been a more effective way to minimize the downtime and costs associated with operating and servicing circuit breakers in hazardous locations.

MAIN BREAKER

BRANCH BREAKER



RUGGED TERMINATION

Each circuit breaker housing connects to the panelboard through Increased Safety line and load terminations for unyielding performance through years of heavy vibrations and shocks

FIELD REPLACEABLE BREAKER

Standard, off-the-shelf circuit breakers reduce inventory costs and downtime

EXTERNAL MAIN BREAKER ACTUATION

External actuation of main breaker allows for simple operation; provided with multiple lock-outs for better security

WEATHERPROOF WINDOW

External actuation through a weatherproof window simplifies maintenance

VENTING PLATE

Unique design of breaker housing allows heat to dissipate safely, enabling breakers to maintain their rated amperage and reducing the possibility of nuisance tripping

EMERSON
Industrial Automation

RELIABLE PROTECTION

P Series PowerPlex panelboards provide reliable flameproof protection of lighting, heat trace and power circuits in Zone 1 and 2 – 21 and 22 environments. Indoors or outdoors, in weather-exposed and corrosive environments, they're the ideal electrical distribution solution for every part of your facility.

BENEFIT HIGHLIGHTS

- 250 amp MCCB main breaker, instead of a simple disconnect, provides overload and short circuit protection
- 50 kA busbar provides superior resistance to short circuits and mechanical failures
- Main and branch breaker combinations offer multiple cascading and short circuit ratings
- Branch breakers available in 1-, 2-, 3- and 4-pole and 1-pole plus neutral, with or without auxiliary contacts
- Multiple-sensitivity GFI breakers available
- Lightweight polyester enclosure offers exceptional durability and corrosion resistance
- 6 standard panelboard arrangements
- Modular design allows unlimited circuit configurations with horizontal and vertical coupling options

STANDARD MATERIALS

- Enclosure: Fiberglass reinforced polyester (FRP)
- Hardware: Stainless steel
- Busbar: Hard drawn copper
- Chassis: Hot dip galvanized for wall mounting

CERTIFICATIONS

- ATEX/IECEx:
  - Zone 1 and 2 – 21 and 22
  - Ex II2GD
  - EPL Gb Db
  - Ex db eb IIB+H_2
  - Ex tb IIIC
  - IP66/Ik10
- ATEX/IECEx — Optional:
  - Zone 1 and 2 – 21 and 22
  - Ex II2GD
  - EPL Gb Db
  - Ex db eb IIC
  - Ex tb IIIC
  - IP66/Ik10
- Ambient temperature ratings:
  - Standard model: -25°C to 55°C (-13°F to 131°F)
  - Standard model without switching: -40°C to 55°C (-40°F to 131°F)

STEPS TO CREATING CATALOG NUMBER

To create a complete catalog number, refer to the Catalog Numbering Guide below.
For complete details and dimensional data, refer to the P Series PowerPlex panelboard catalog pages at www.appletonelec.com.

P	P	E	M	06	12	2	16	C	G030	1	_	▲
Step 1			Step 2		Step 3						Step 4	Step 5

Step 1: Series is P
Material is P
Choose panel arrangement (A, B, C, D, E or F; see drawing at the end of the section for number of circuits)

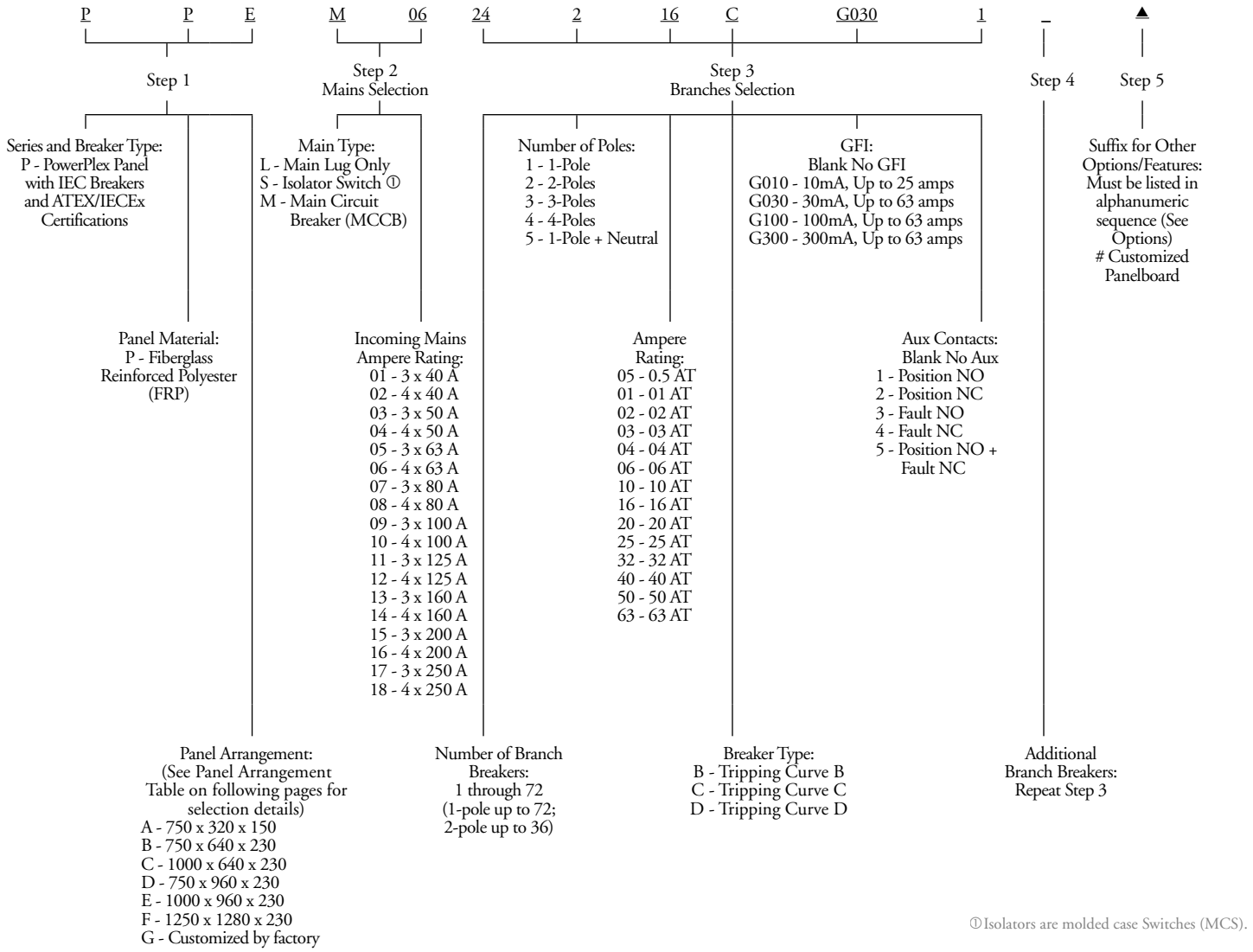
Step 2: Choose either main lug (L), isolator switch (S) or main circuit breaker (M)
Choose the ampere rating of incoming mains (3 or 4 poles plus ampere: 40, 50, 63, 80, 100, 125, 160, 200, 250)
If a main breaker is desired indicate amperage rating;
Example: PPEM06 – 4-pole 63 amp main breaker

Step 3: Choose the number of branch breakers
Choose the number of poles
Choose the ampere rating
Choose the breaker type
Choose OPTIONAL GFI
Choose OPTIONAL auxiliary contacts
First number is the number of branch breakers, second number is the number of poles, third number is the ampere rating, forth number is the breaker type and the fifth and six are optional GFI and/or auxiliary contacts; Example: 12216CG0301 is 12 2-pole 16 amp breakers with tripping curve C, 30 mA GFI and one auxiliary contact

Step 4: Repeat Step 3 for as many breaker types as required (please refer to standard configurations)

Step 5: Panel options: Add options in alphanumeric order. Standard options are listed previously in this brochure, or can be found in the Appleton catalog at www.appletonelec.com.

CATALOG NUMBERING GUIDE

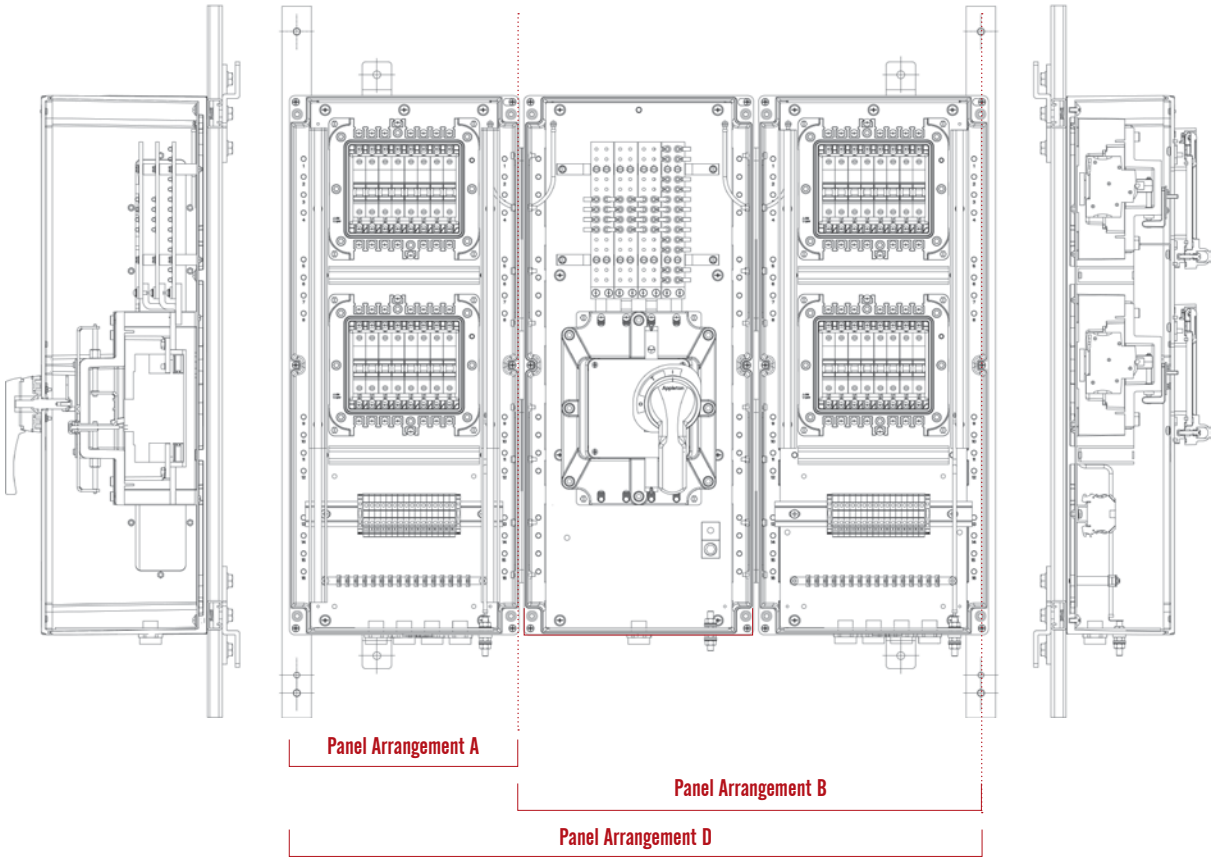


① Isolators are molded case Switches (MCS).

CIRCUIT CONFIGURATION ②

	Panel Arrangements				
Main Lugs, Isolator Switch or Main Breaker	A/B	C	D	E	F
Maximum No. of 8 Poles Modules in Each Arrangement	2	3	4	6	9
Branch Breakers	Maximum No. of Circuits				
1 Pole	16	24	32	48	72
1 Poles + Aux (NO or NC)	8	12	16	24	36
2 Poles	8	12	16	24	36
3 Poles	4	6	8	12	18
4 Poles	4	6	8	12	18
2 Poles + Aux (NO or NC)	4	6	8	12	18
3 Poles + Aux (NO or NC)	4	6	8	12	18
4 Poles + Aux (NO or NC)	2	3	4	6	9
2 Poles + Aux (NO+NC)	4	6	8	12	18
3 Poles + Aux (NO+NC)	2	3	4	6	9
4 Poles + Aux (NO+NC)	2	3	4	6	9
2 Poles+GFI	4	6	8	12	18
3 Poles+GFI	2	3	4	6	9
4 Poles+GFI	2	3	4	6	9
2 Poles + GFI + Aux (NO or NC)	4	6	8	12	18
3 Poles + GFI + Aux (NO or NC)	2	3	4	6	9
4 Poles + GFI + Aux (NO or NC)	2	3	4	6	9
2 Poles + GFI + Aux (NO+NC)	2	3	4	6	9
3 Poles + GFI + Aux (NO+NC)	2	3	4	6	9
4 Poles + GFI + Aux (NO+NC) ③	2	3	4	6	9

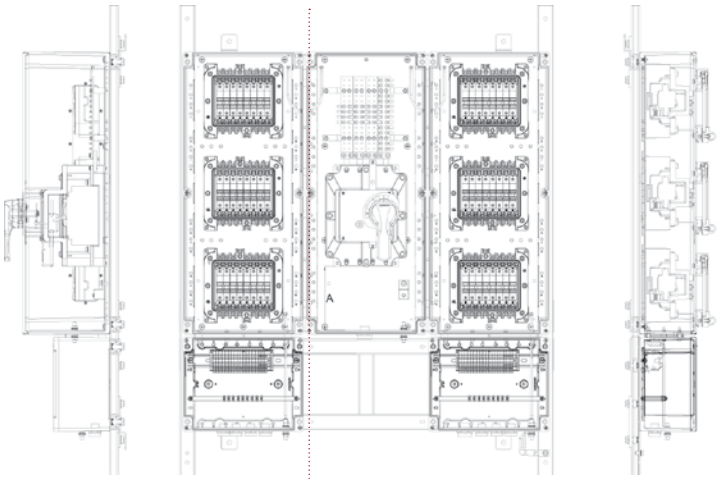
②Panel Arrangement A has the same number of circuits as Panel Arrangement B without the Mains.
③Up to 25 Amps Only.



PANELBOARD SPECIFICATIONS

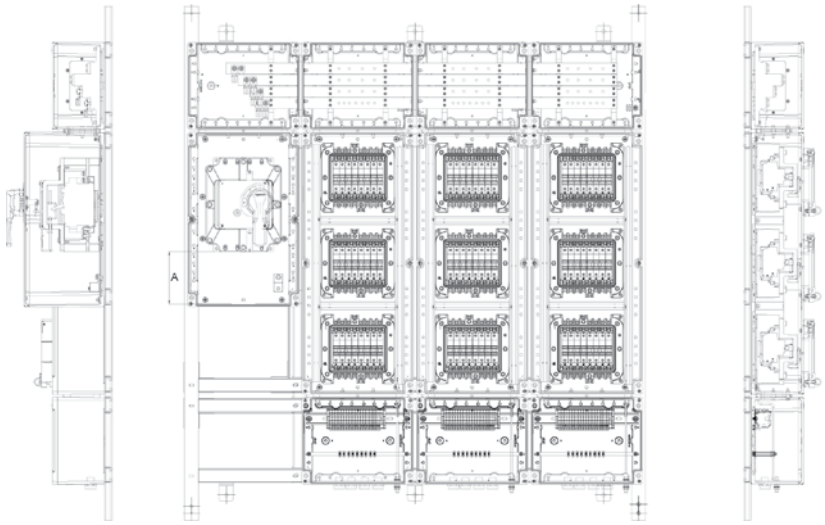
	Panel Arrangement A			Panel Arrangement B			Panel Arrangement D		
Panel Size	750 x 320 x 150 mm			990 x 666 x 230 mm			990 x 994 x 230 mmW		
Panel Weight	40 kg (88 lb)			70 kg (154 lb)			120 kg (265 lb)		
Voltage	220-240/380-415, 440 V			220-240/380-415, 440 V			220-240/380-415, 440 V		
Breaking Capacity in kA	Ratings in Amps	380/415 V	440 V④	Ratings in Amps	380/415 V	440 V④	Ratings in Amps	380/415 V	440 V④
Mains	63 A	-	-	100 A	25 kA	20 kA	160 A	25 kA	20 kA
Busbar	100 A	-	-	125 A	50 kA	50 kA	160 A	50 kA	50 kA
Branch Breakers ③	0.5 to 4 A	50 kA	25 kA	0.5 to 4 A	50 kA	25 kA	0.5 to 4 A	50 kA	25 kA
Branch Breakers ③	6 to 63 A	10 kA	6 kA	6 to 63 A	10 kA	6 kA	6 to 63 A	10 kA	6 kA
Panel Arrangement	100 A, 3 Ph, 5W	-	-	100 A, 3 Ph, 5W	20 kA	15 kA	160 A, 3 Ph, 5W	20 kA	15 kA

③Up to 25 Amps Only
④ 440 V Without GFI.



Panel Arrangement C

Panel Arrangement E



Panel Arrangement F

PANELBOARD SPECIFICATIONS

	Panel Arrangement C			Panel Arrangement E			Panel Arrangement F		
Panel Size	1250 x 666 x 230 mm			1250 x 994 x 230 mm			1470 x 1323 x 230 mm		
Panel Weight	80 kg (176 lb)			145 kg (320 lb)			200 kg (441 lb)		
Voltage	220-240/380-415, 440 V			220-240/380-415 V			220-240/380-415 V		
Breaking Capacity in kA	Ratings in Amps	380/415 V	440 V④	Ratings in Amps	380/415 V	440 V④	Ratings in Amps	380/415 V	440 V④
Mains	125 A	25 kA	20 kA	200 A	25 kA	20 kA	250 A	25 kA	20 kA
Busbar	125 A	50 kA	50 kA	250 A	50 kA	50 kA	250 A	50 kA	50 kA
Branch Breakers ③	0.5 to 4 A	50 kA	25 kA	0.5 to 4 A	50 kA	25 kA	0.5 to 4 A	50 kA	25 kA
Branch Breakers ③	6 to 63 A	10 kA	6 kA	6 to 63 A	10 kA	6 kA	6 to 63 A	10 kA	6 kA
Panel Arrangement	125 A, 3 Ph, 5W	20 kA	15 kA	200 A, 3 Ph, 5W	20 kA	-	250 A, 3 Ph, 5W	20 kA	-

③Up to 25 Amps Only.
④440 V Without GFI.