



P-frame 3-pole  
250–1200 Amperes

## P Frame - 1200A, Standard Rated

### MICROLOGIC Standard Trip Unit

Amps	G Interrupting		J Interrupting		L Interrupting		K Interrupting	
	Catalogue Number	Price	Catalogue Number	Price	Catalogue Number	Price	Catalogue Number	Price
<b>MICROLOGIC 3.0 (LI Trip Functions)</b>								
250	PGL36025U31A		PJL36025U31A		PLL34025U31A		PKL36025U31A	
400	PGL36040U31A		PJL36040U31A		PLL34040U31A		PKL36040U31A	
600	PGL36060U31A		PJL36060U31A		PLL34060U31A		PKL36060U31A	
800	PGL36080U31A		PJL36080U31A		PLL34080U31A		PKL36080U31A	
1000	PGL36100U31A		PJL36100U31A		PLL34100U31A		PKL36100U31A	
1200	PGL36120U31A		PJL36120U31A		PLL34120U31A		PKL36120U31A	
<b>MICROLOGIC 5.0 (LSI Trip Functions)</b>								
250	PGL36025U33A		PJL36025U33A		PLL34025U33A		PKL36025U33A	
400	PGL36040U33A		PJL36040U33A		PLL34040U33A		PKL36040U33A	
600	PGL36060U33A		PJL36060U33A		PLL34060U33A		PKL36060U33A	
800	PGL36080U33A		PJL36080U33A		PLL34080U33A		PKL36080U33A	
1000	PGL36100U33A		PJL36100U33A		PLL34100U33A		PKL36100U33A	
1200	PGL36120U33A		PJL36120U33A		PLL34120U33A		PKL36120U33A	

### MICROLOGIC Ammeter Trip Unit

#### MICROLOGIC 3.0A (LI Trip Functions)

250	PGL36025U41A		PJL36025U41A		PLL34025U41A		PKL36025U41A	
400	PGL36040U41A		PJL36040U41A		PLL34040U41A		PKL36040U41A	
600	PGL36060U41A		PJL36060U41A		PLL34060U41A		PKL36060U41A	
800	PGL36080U41A		PJL36080U41A		PLL34080U41A		PKL36080U41A	
1000	PGL36100U41A		PJL36100U41A		PLL34100U41A		PKL36100U41A	
1200	PGL36120U41A		PJL36120U41A		PLL34120U41A		PKL36120U41A	

#### MICROLOGIC 5.0A (LSI Trip Functions)

250	PGL36025U43A		PJL36025U43A		PLL34025U43A		PKL36025U43A	
400	PGL36040U43A		PJL36040U43A		PLL34040U43A		PKL36040U43A	
600	PGL36060U43A		PJL36060U43A		PLL34060U43A		PKL36060U43A	
800	PGL36080U43A		PJL36080U43A		PLL34080U43A		PKL36080U43A	
1000	PGL36100U43A		PJL36100U43A		PLL34100U43A		PKL36100U43A	
1200	PGL36120U43A		PJL36120U43A		PLL34120U43A		PKL36120U43A	

#### MICROLOGIC 6.0A (LSIG Trip Functions)

250	PGL36025U44A		PJL36025U44A		PLL34025U44A		PKL36025U44A	
400	PGL36040U44A		PJL36040U44A		PLL34040U44A		PKL36040U44A	
600	PGL36060U44A		PJL36060U44A		PLL34060U44A		PKL36060U44A	
800	PGL36080U44A		PJL36080U44A		PLL34080U44A		PKL36080U44A	
1000	PGL36100U44A		PJL36100U44A		PLL34100U44A		PKL36100U44A	
1200	PGL36120U44A		PJL36120U44A		PLL34120U44A		PKL36120U44A	

### MICROLOGIC Power Trip Unit

#### MICROLOGIC 5.0P (LSI Trip Functions)

250	PGL36025U63AE1		PJL36025U63AE1		PLL34025U63AE1		PKL36025U63AE1	
400	PGL36040U63AE1		PJL36040U63AE1		PLL34040U63AE1		PKL36040U63AE1	
600	PGL36060U63AE1		PJL36060U63AE1		PLL34060U63AE1		PKL36060U63AE1	
800	PGL36080U63AE1		PJL36080U63AE1		PLL34080U63AE1		PKL36080U63AE1	
1000	PGL36100U63AE1		PJL36100U63AE1		PLL34100U63AE1		PKL36100U63AE1	
1200	PGL36120U63AE1		PJL36120U63AE1		PLL34120U63AE1		PKL36120U63AE1	

#### MICROLOGIC 6.0P (LSIG Trip Functions)

250	PGL36025U64AE1		PJL36025U64AE1		PLL34025U64AE1		PKL36025U64AE1	
400	PGL36040U64AE1		PJL36040U64AE1		PLL34040U64AE1		PKL36040U64AE1	
600	PGL36060U64AE1		PJL36060U64AE1		PLL34060U64AE1		PKL36060U64AE1	
800	PGL36080U64AE1		PJL36080U64AE1		PLL34080U64AE1		PKL36080U64AE1	
1000	PGL36100U64AE1		PJL36100U64AE1		PLL34100U64AE1		PKL36100U64AE1	
1200	PGL36120U64AE1		PJL36120U64AE1		PLL34120U64AE1		PKL36120U64AE1	

### Interrupting Ratings (kA)

	G	J	L	K
240 V	65	100	125	65
480 V	35	65	100	50
600 V	18	25		50

Accessories DE3-34

Dimensions DE3-50

Enclosures DE3-27

### MICROLOGIC Harmonic Trip Unit

#### MICROLOGIC 5.0H (LSI Trip Functions)

250	PGL36025U73AE1		PJL36025U73AE1		PLL34025U73AE1		PKL36025U73AE1	
400	PGL36040U73AE1		PJL36040U73AE1		PLL34040U73AE1		PKL36040U73AE1	
600	PGL36060U73AE1		PJL36060U73AE1		PLL34060U73AE1		PKL36060U73AE1	
800	PGL36080U73AE1		PJL36080U73AE1		PLL34080U73AE1		PKL36080U73AE1	
1000	PGL36100U73AE1		PJL36100U73AE1		PLL34100U73AE1		PKL36100U73AE1	
1200	PGL36120U73AE1		PJL36120U73AE1		PLL34120U73AE1		PKL36120U73AE1	

#### MICROLOGIC 6.0H (LSIG Trip Functions)

250	PGL36025U74AE1		PJL36025U74AE1		PLL34025U74AE1		PKL36025U74AE1	
400	PGL36040U74AE1		PJL36040U74AE1		PLL34040U74AE1		PKL36040U74AE1	
600	PGL36060U74AE1		PJL36060U74AE1		PLL34060U74AE1		PKL36060U74AE1	
800	PGL36080U74AE1		PJL36080U74AE1		PLL34080U74AE1		PKL36080U74AE1	
1000	PGL36100U74AE1		PJL36100U74AE1		PLL34100U74AE1		PKL36100U74AE1	
1200	PGL36120U74AE1		PJL36120U74AE1		PLL34120U74AE1		PKL36120U74AE1	

# Selection Information

## Molded Case Circuit Breakers

Class 600, 612, 800

DE3 CIRCUIT BREAKERS

	PowerPact 800 A M-Frame		PowerPact 1200 A P-Frame				PowerPact 3000 A R-Frame				
<b>Circuit Breaker Type</b>	MG	MJ	PG	PJ	PK	PL	RG	RJ	RK	RL	
<b>Number of Poles</b>	2, 3	2, 3	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	2, 3, 4	
<b>Current Range</b>	300–800	300–800	100–1200	100–1200	100–1200	100–1200	240–3000	240–3000	240–3000	240–3000	
<b>Interrupting Ratings</b>											
UL/CSA/NOM Rating (kA RMS) (50/60 Hz)	240 Vac	65	100	65	100	65	125	65	100	65	125
	480Y/277 Vac	35	65	35	65	50	100	35	65	65	100
	480 Vac	35	65	35	65	50	100	35	65	65	100
	600Y/347 Vac	18	25	18	25	50	25	18	25	65	50
DC Ratings	250 Vdc	—	—	—	—	—	—	—	—	—	—
	500 Vdc▲	—	—	—	—	—	—	—	—	—	—
IEC (kA RMS) Icu/Ics■	240 Vac	50/25	65/35	50/25	65/35	50/25	125/65	50/25	65/35	85/65	125/65
	415 Vac	35/20	50/25	35/20	50/25	50/25	85/45	35/20	50/25	70/55	85/45
<b>Special Ratings</b>											
CCC	X	X	X	X	X	X	X	X	X	X	X
Fed. Specs W-C-375B/GEN	X	X	X	X	X	X	X	X	X	X	X
HACR (2P, 3P)	X	X	X	X	X	X	X	X	X	X	X
<b>Connections/Terminations</b>											
Unit Mount	X	X	X	X	X	X	X	X	X	X	X
I-Line™	X	X	X	X	X	X	X▼	X▼	X▼	X▼	X▼
Rear Connection	—	—	—	—	—	—	—	—	—	—	—
Drawout	—	—	X★	X★	X★	X★	—	—	—	—	—
Optional Lugs	X	X	X	X	X	X	X	X	X	X	X
<b>Accessories and Modifications</b>											
Shunt Trip	X	X	X	X	X	X	X	X	X	X	X
Undervoltage Trip	X	X	X	X	X	X	X	X	X	X	X
Auxiliary Switches	X	X	X	X	X	X	X	X	X	X	X
Alarm Switch	X	X	X	X	X	X	X	X	X	X	X
Motor Operator	—	—	X★	X★	X★	X★	—	—	—	—	—
Handle Operators	—	—	X★	X★	X★	X★	—	—	—	—	—
Mechanical Interlocks (3P)	—	—	X	X	X	X	—	—	—	—	—
Handle Padlock Attachment	X	X	X	X	X	X	X	X	X	X	X
Cylinder Lock (3P)	—	—	—	—	—	—	—	—	—	—	—
Optional GF Protection	—	—	X	X	X	X	X	X	X	X	X
<b>Trip System Type</b>											
Thermal-magnetic	—	—	—	—	—	—	—	—	—	—	—
Instantaneous-only (MCP)	—	—	—	X	X	—	—	—	—	—	—
Molded Case Switch (Automatic)	—	—	X	X	X	X	X	X	X	X	X
Electronic	X	X	X	X	X	X	X	X	X	X	X
<b>Enclosures (Pages DE3-56–DE3-58)</b>											
General Purpose (NEMA 1)	X	X	X	X	X	X	—	—	—	—	—
Raintight (NEMA 3R)	X	X	X	X	X	X	—	—	—	—	—
Dust-tight (NEMA 12)	X	X	X	X	X	X	—	—	—	—	—
Watertight (NEMA 4, 4X, 5)	X	X	—	—	—	—	—	—	—	—	—
Explosion Proof (NEMA 7, 9)	—	—	—	—	—	—	—	—	—	—	—
Dimensions (3P Unit Mount)	Height—in. (mm)	12.80 (325)		16.20 (413)				15 (381)			
	Width—in. (mm)	8.30 (210)		8.30 (210)				16.50 (420)			
	Depth—in. (mm)	8.10 (205)		8.10 (205)				14.40 (366)			
Pages (Unit Mount)/(I-Line)	Page DE3-26/Section DE5		Page DE3-27, DE3-31, DE3-34/Section DE5				Page DE3-28, DE3-34/Section DE5				

Note: All circuit breakers on this chart are UL Listed and CSA Certified unless otherwise noted.

- ▲ Ungrounded UPS systems only. See page DE3-35.
- Dual CSA/UL and IEC ratings and CE markings on circuit breakers.
- ◆ Requires breaker with WB suffix
- ★ 65/50 kA Icu/Ics for 450–600 A ratings.
- ▼ 1000 A and 1200 A only.

**P Frame - 1200A, (600 Vac, 50/60 Hz) 3P ▲ Circuit Breaker with Electronic Trip Unit**

Electronic Trip Unit			Sensor Rating	G Interrupting		J Interrupting		L Interrupting		K Interrupting		Terminal Wire Range
Type	Function	Trip Unit		Catalogue Number	Price	Catalogue Number	Price	Catalogue Number	Price	Catalogue Number	Price	
Basic Electronic Trip Unit (Not Interchangeable)	Fixed long-time, Adjustable Instantaneous	ET1.0I	600 A	PGL36060		PJL36060		PLL34060		PKL36060		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			800 A	PGL36080		PJL36080		PLL34080		PKL36080		
			1000 A	PGL36100		PJL36100		PLL34100		PKL36100		
			1200 A	PGL36120		PJL36120		PLL34120		PKL36120		
Micrologic Interchangeable Standard Trip Unit	LI	3.0	250	PGL36025U31A		PJL36025U31A		PLL34025U31A		PKL36025U31A		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U31A		PJL36040U31A		PLL34040U31A		PKL36040U31A		
			600	PGL36060U31A		PJL36060U31A		PLL34060U31A		PKL36060U31A		
			800	PGL36080U31A		PJL36080U31A		PLL34080U31A		PKL36080U31A		
			1000	PGL36100U31A		PJL36100U31A		PLL34100U31A		PKL36100U31A		
	LSI	5.0	250	PGL36025U33A		PJL36025U33A		PLL34025U33A		PKL36025U33A		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U33A		PJL36040U33A		PLL34040U33A		PKL36040U33A		
			600	PGL36060U33A		PJL36060U33A		PLL34060U33A		PKL36060U33A		
			800	PGL36080U33A		PJL36080U33A		PLL34080U33A		PKL36080U33A		
			1000	PGL36100U33A		PJL36100U33A		PLL34100U33A		PKL36100U33A		
Micrologic Interchangeable Ammeter Trip Unit	LI	3.0A	250	PGL36025U41A		PJL36025U41A		PLL34025U41A		PKL36025U41A		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U41A		PJL36040U41A		PLL34040U41A		PKL36040U41A		
			600	PGL36060U41A		PJL36060U41A		PLL34060U41A		PKL36060U41A		
			800	PGL36080U41A		PJL36080U41A		PLL34080U41A		PKL36080U41A		
	LSI	5.0A	250	PGL36025U43A		PJL36025U43A		PLL34025U43A		PKL36025U43A		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U43A		PJL36040U43A		PLL34040U43A		PKL36040U43A		
			600	PGL36060U43A		PJL36060U43A		PLL34060U43A		PKL36060U43A		
			800	PGL36080U43A		PJL36080U43A		PLL34080U43A		PKL36080U43A		
	LSIG	6.0A	250	PGL36025U44A		PJL36025U44A		PLL34025U44A		PKL36025U44A		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U44A		PJL36040U44A		PLL34040U44A		PKL36040U44A		
			600	PGL36060U44A		PJL36060U44A		PLL34060U44A		PKL36060U44A		
			800	PGL36080U44A		PJL36080U44A		PLL34080U44A		PKL36080U44A		
Micrologic Interchangeable Power Trip Unit	LSI	5.0P	250	PGL36025U63AE1		PJL36025U63AE1		PLL34025U63AE1		PKL36025U63AE1		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U63AE1		PJL36040U63AE1		PLL34040U63AE1		PKL36040U63AE1		
			600	PGL36060U63AE1		PJL36060U63AE1		PLL34060U63AE1		PKL36060U63AE1		
			800	PGL36080U63AE1		PJL36080U63AE1		PLL34080U63AE1		PKL36080U63AE1		
	LSIG	6.0P	250	PGL36025U64AE1		PJL36025U64AE1		PLL34025U64AE1		PKL36025U64AE1		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U64AE1		PJL36040U64AE1		PLL34040U64AE1		PKL36040U64AE1		
			600	PGL36060U64AE1		PJL36060U64AE1		PLL34060U64AE1		PKL36060U64AE1		
			800	PGL36080U64AE1		PJL36080U64AE1		PLL34080U64AE1		PKL36080U64AE1		
Micrologic Interchangeable Harmonic Trip Unit	LSI	5.0H	250	PGL36025U73AE1		PJL36025U73AE1		PLL34025U73AE1		PKL36025U73AE1		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U73AE1		PJL36040U73AE1		PLL34040U73AE1		PKL36040U73AE1		
			600	PGL36060U73AE1		PJL36060U73AE1		PLL34060U73AE1		PKL36060U73AE1		
			800	PGL36080U73AE1		PJL36080U73AE1		PLL34080U73AE1		PKL36080U73AE1		
	LSIG	6.0H	250	PGL36025U74AE1		PJL36025U74AE1		PLL34025U74AE1		PKL36025U74AE1		(3) 3/0 AWG-500 kcmil Al or Cu AL800M23K AL1200P25K (4) 3/0 AWG-500 kcmil Al or Cu
			400	PGL36040U74AE1		PJL36040U74AE1		PLL34040U74AE1		PKL36040U74AE1		
			600	PGL36060U74AE1		PJL36060U74AE1		PLL34060U74AE1		PKL36060U74AE1		
			800	PGL36080U74AE1		PJL36080U74AE1		PLL34080U74AE1		PKL36080U74AE1		

- ▲ For 2P and 4P information see Catalog 0612CT0101.
- For 100% rated circuit breakers add a "C" in the 9<sup>th</sup> character place. For example, the catalog number for a 100% trip unit with LI trip functions at 250A would be PGL36025CU31A. 100% ratings are not available for circuit breakers with ET1.0 Trip Units.
- ◆ P-frame L-interrupting is available in 480 Vac only.

**P-Frame Termination Options**

Termination Letter	
F = No Lugs (Includes terminal nut kit on both ends)	For factory-installed termination, place termination letter in the third block of the circuit breaker catalog number.
L = Lugs both ends	
M = Lugs ON end, terminal nut kit OFF end	
P = Lugs OFF end, terminal nut kit ON end	
D = Drawout	
A = I-Line (See Section 5)	

**PGL36040U41A**  
L Termination Letter

**P-Frame and R-Frame Interrupting Ratings**

Voltage	P-Frame Interrupting Rating				R-Frame Interrupting Rating			
	G	J	K	L	G	J	K	L
240 Vac	65 kA	100 kA	65 kA	125 kA	65 kA	100 kA	65 kA	125 kA
480 Vac	35 kA	65 kA	50 kA	100 kA	35 kA	65 kA	65 kA	100 kA
600 Vac	18 kA	25 kA	50 kA		18 kA	25 kA	65 kA	50 kA

R-frame catalog numbers ..... Page DE3-28  
 Dimensions ..... Page DE3-55  
 Trip Unit Options ..... Page DE3-47  
 Optional Lugs ..... Page DE3-42  
 Alternate Rating Plugs ..... Page DE3-48  
 Enclosure ..... Page DE3-56  
 Accessories ..... Page DE3-39

# Dimensions and Shipping Weights Molded Case Circuit Breakers

Figure 25

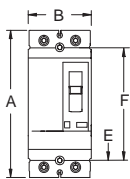


Figure 26

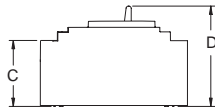
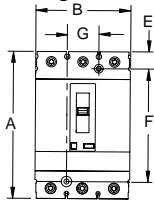


Figure 27

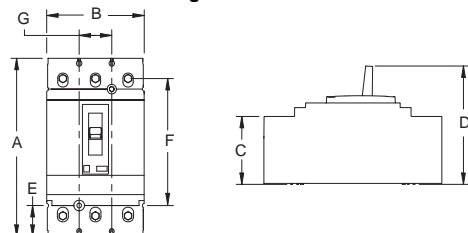


Figure 28

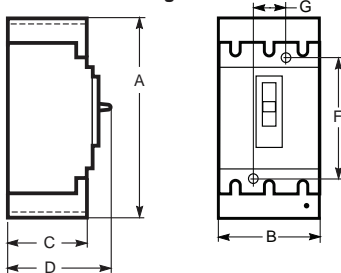


Figure 29

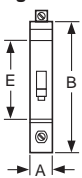


Figure 30

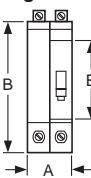


Figure 31

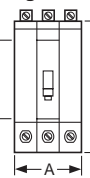


Figure 32

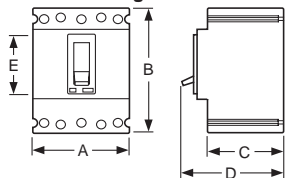


Figure 33

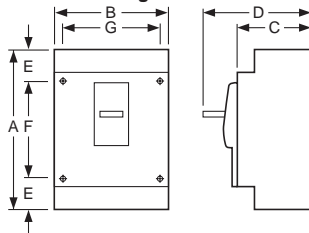
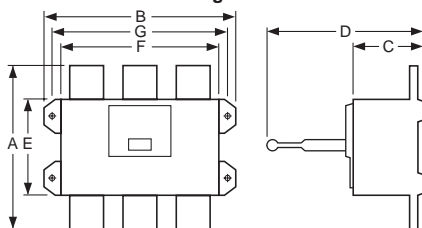


Figure 34



## HD, HG, HJ, HL, HR, JD, JG, JJ, JL, JR, LG, LJ, LL, and LR Circuit Breakers

Circuit Breaker Cat. No. Prefix	No. of Poles	Fig. No.	Dimensions — Inches						
			A	B	C	D	E	F	G
HD, HG, HJ*, HL*, HR	2	25	6.40	2.74	2.87	4.36	0.74	4.92	—
JD*, JG*, JJ*, JL*, JR	3	26	6.40	4.12	2.87	4.36	0.74	4.92	1.38
JD*, JG*, JJ*, JL*, JR	3	27	7.52	4.12	2.87	5.00	1.30	4.92	1.38
LG, LJ, LL, LR	3	28	13.38	5.51	3.75	6.61	2.22	8.93	1.77

\* - The HJ, HL and the J-Frame 2P breakers are 3P modules

## ED, EG and EJ Circuit Breakers

Circuit Breaker Catalogue No. Prefix	No. of Poles	Fig. No.	Dimensions — Inches				
			A	B	C	D	E
ED, EG, EJ	1	29	0.98	5.66	3.09	4.05	3.32
	2	30	1.96	5.66	3.09	4.05	3.32
	3	30	2.94	5.66	3.09	4.05	3.32
GJ	3	32	3.54	4.72	2.76	3.94	2.20

## MG, MJ, PG, PJ, PL, RG, RJ and RL Circuit Breakers

Circuit Breaker Cat. No. Prefix	No. of Poles	Fig. No.	Dimensions — Inches						
			A	B	C	D	E	F	G
MG, MJ (800 A and below)	2, 3	33	12.86	8.27	5.77	8.05	2.49	7.87	7.83
PG, PJ, PK, PL (1000–1200 A)	2, 3	33	16.16	8.27	5.77	8.05	4.19	7.87	7.83
RG, RJ, RL	2, 3	34	16.24	16.54	6.63	14.49	8.73	14.25	15.35

## Shipping Weights▲

Frame Size	Approx. Shipping Weight (Lbs.)	Frame Size	Approx. Shipping Weight (Lbs.)
HD, HG, HJ, HL 2P	4	JD, JG, JJ, JL, JR	5
HD, HG, HJ, HL, HR 3P	5	LD, LG, LJ, LL, LR	14
ED, EG, EJ 1P	2	MG, MJ	29
ED, EG, EJ 2P	3	PG, PJ, PK, PL	32
ED, EG, EJ 3P	4	RG, RJ, RK, RL (Without RLTB)	52

▲ All weights are for 3P circuit breakers unless otherwise noted.