Pow-R-Xpress
July 2026

In-stock solutions quick selector guide

Commonly used power distribution solutions for light commercial jobs

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Powering Business Worldwide

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Pow-R-Xpress panelboards

Application considerations for proper selection

- What is your panelboard type, voltage and phase?
  - PRL1X = 120/240 V single-phase, three-wire
  - PRL1X = 208/120 V three-phase, four-wire
  - PRL2X = 480/277 V three-phase, four-wire
  - PRL2X = 208/120 V three-phase, four-wire
- Bus amperes?
  - 100 A
  - 225 A
  - 400 A
  - 600 A
- Main lugs only (MLO) or main circuit breaker?
  - MLO
  - MCB (choose amperage and top or bottom)
  - MCB with oversized lugs (choose amperage and top or bottom)
- What is the number of "branch" circuits?
  - 18
  - 30
  - 42
  - 60
- What is your bus type?
  - Aluminum
  - Copper
- Other options?
  - TFL/SFB provisions exist
  - Long (with TFL or SFB provisions)
  - Short
  - PRL2X, 120/208 V @ 65 k

Catalog numbering system—Pow-R-Xpress panelboard interiors

PRL1X 1 225 X 42 A S

Panelboard type
PRL1X = PRL1X
PRL2X = PRL2X

Phase
1 = Single-phase
3 = Three-phase

Bus amperes
100 = 100 A
225 = 225 A
400 = 400 A
600 = 600 A

Main device
B = 400 A MCB/MLO sized for 750 kcmil
L = 225 A MLO provisions only
X = Main (MCB or MLO kit)

Number of circuits
18 = 18 circuits
30 = 30 circuits
42 = 42 circuits
60 = 60 circuits

Bus type
A = Aluminum bus
C = Copper bus

Option
Blank = TFL/SFB provisions exist
L = Long with TFL or SFB provisions, only applicable for 600 A panelboards
S = Short—no TFL or SFB provisions
1 = PRL2X, 120/208 V @ 65 k



Branch circuit breakers

Summary of branch breakers available

Breaker	No. of poles	Ampere rating	Voltage	kAIC rating	Example	Panelboard type
BAB ①②③	1	15–70	120	10	**BAB1020**	PRL1X
	2	15–100	120/240	10	**BAB2020**	PRL1X
BAB-H	2	15–100	240	10	**BAB2040H**	PRL1X
	3	15–100	240	10	**BAB3030H**	PRL1X
QBAF	1	15–20	120	10	**QBAF1020**	PRL1X
QB-GF	1	15–30	120	10	**QB1020GF**	PRL1X
	2	15–60	120	10	**QB2020GF**	PRL1X
	3	15–60	120	10	**QB1020GF**	PRL1X
QB-EP	1	15–30	120/240	10	**QB1020EP**	PRL1X
	2	15–60	120/240	10	**QB2020EP**	PRL1X
QB-CAF	1	15–20	120	22	**QB1020CAF**	PRL1X
QB-AFGF	1	15–20	120	10	**QB1015AFGF**	PRL1X
QBH-GF	1	15–30	120/240	22	**QBH1015GF**	PRL1X
QBH-CAF	1	15–20	120	22	**QBH1020CAF**	PRL1X
QBH-EP	1	15–30	120	22	**QBH1020EP**	PRL1X
QBHGFT	2	15–30	120/240	22	**QBHGFT2020**	PRL1X
QBHW ①③	1	15–70	120	22	**QBHW1020**	PRL1X
	2	15–100	120/240	22	**QBHW2020**	PRL1X
QBHW-H	2	15–100	240	22	**QBHW2040H**	PRL1X
	3	15–100	240	22	**QBHW3030H**	PRL1X
GHQ	1	15-30	277	14	**GHQ1020**	PRL2X
	2	15-30	277	14	**GHQ2020**	PRL2X
GHB ①②③	1	15–100	277	14	**GHB1020**	PRL2X
	2	15–100	480Y/277	14	**GHB2040**	PRL2X
	3	15–100	480Y/277	14	**GHB3060**	PRL2X
GHBGFEP	1	15-60	480Y/277	14	**GHBGFEP1015**	PRL2X
HGHB	1	15–30	277	14	**HGHB1020**	PRL2X

① BAB, QBHW, GHQ and GHB breakers installed in PRL1X and PRL2X are available with shunt trip, i.e., BAB1020S.
② BAB-H, QBHW-H and GHB 50–100 A available as chassis-mounted main device.
③ BAB, QBHW, GHQ, GHB—padlockable and non-padlockable lockoff device available; order separately.

Pow-R-Xpress unassembled panelboards—EZ Box™ and EZ Trim™
Single-phase, three-wire, 120/240 V

Box, interior and trim color match the grouping in the chart.

Capability						Catalog numbers					
						Interiors (less main device)		Boxes ①	Trims (NEMA® 1) ②		
Ampere rating	Maximum number of poles	Main lugs	Main breaker	Through-feed lugs	Sub-feed breaker (400 A max.)	Aluminum bus	Copper bus	NEMA 1	Surface	Flush	NEMA 3R enclosures
100	18	■	■	■	N/A	PRL1X1100X18A	PRL1X1100X18C	EZB2036RBS	EZT2036S	EZT2036F	GWPBQ2036PR
100	30	■	■	■	100	PRL1X1100X30A	PRL1X1100X30C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
100	42	■	■	■	N/A	PRL1X1100X42A	PRL1X1100X42C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	18	■	■	N/A	N/A	PRL1X1225X18AS ③	PRL1X1225X18CS ③	EZB2036RBS	EZT2036S	EZT2036F	GWPBQ2036PR
225	30	■	■	N/A	N/A	PRL1X1225X30AS ③	PRL1X1225X30CS ③	EZB2042RBS	EZT2042S	EZT2042F	GWPBQ2042PR
225	30	■	■	■	100, 125, 150, 175, 200, 225	PRL1X1225X30A	PRL1X1225X30C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	42	■	■	N/A	N/A	PRL1X1225X42AS ③	PRL1X1225X42CS ③	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	42	■	■	■	100, 125, 150, 175, 200, 225	PRL1X1225X42A	PRL1X1225X42C	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	N/A	N/A	PRL1X1225X60AS ③	PRL1X1225X60CS ③	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	■	100, 125, 150, 175, 200, 225	PRL1X1225X60A	PRL1X1225X60C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	N/A	N/A	PRL1X1400X42AS ③	PRL1X1400X42CS ③	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
400	42	■	■	■	100, 125, 150, 175, 200, 225	PRL1X1400X42A	PRL1X1400X42C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	60	■	■	N/A	N/A	PRL1X1400X60AS ③	PRL1X1400X60CS ③	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	■	250, 300, 350, 400	PRL1X1400B42A ④	PRL1X1400B42C ④	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
400	60	■	■	■	100, 125, 150, 175, 200, 225	PRL1X1400X60A	PRL1X1400X60C	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
600	42	■	■	■	N/A	—	PRL1X1600X42C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
600	42	■	■	■	100, 125, 150, 175, 200, 225, 250, 300, 350, 400	—	PRL1X1600X42CL	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR

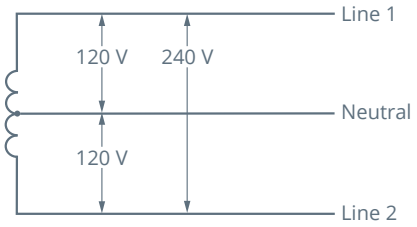
① Use **28** for 28-inch wide boxes (i.e., EZB**28**42RBS)

② Use **28** for 28-inch wide trims for EZT (i.e., EZT**28**48S).

③ S = Short—no TFL or SFB provisions.

④ 400 A interior sized for 750 kcmil.

Note: Series ratings available for main-lug-only interiors with selected upstream main devices.



Note: For NEMA 4X enclosures see page 8.

Pow-R-Xpress unassembled panelboards—EZ Box and EZ Trim
Three-phase, four-wire, 208Y/120 V

Box, interior and trim color match the grouping in the chart.

Capability						Catalog numbers					
						Interiors (less main device)		Boxes ①	Trims (NEMA 1) ②		
Ampere rating	Maximum number of poles	Main lugs	Main breaker	Through-feed lugs	Sub-feed breaker (400 A max.)	Aluminum bus	Copper bus	NEMA 1	Surface	Flush	NEMA 3R enclosures
100	18	■	■	■	N/A	PRL1X3100X18A	PRL1X3100X18C	EZB2036RBS	EZT2036S	EZT2036F	GWPBQ2036PR
100	30	■	■	■	100	PRL1X3100X30A	PRL1X3100X30C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
100	42	■	■	■	N/A	PRL1X3100X42A	PRL1X3100X42C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	18	■	■	N/A	N/A	PRL1X3225X18AS ③	PRL1X3225X18CS ③	EZB2036RBS	EZT2036S	EZT2036F	GWPBQ2036PR
225	30	■	■	N/A	N/A	PRL1X3225X30AS ③	PRL1X3225X30CS ③	EZB2042RBS	EZT2042S	EZT2042F	GWPBQ2042PR
225	30	■	■	■	100, 125, 150, 175, 200, 225	PRL1X3225X30A	PRL1X3225X30C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	42	■	N/A	N/A	N/A	PRL1X3225L42AS ③	PRL1X3225L42CS ③	EZB2042RBS	EZT2042S	EZT2042F	GWPBQ2042PR
225	42	■	■	N/A	N/A	PRL1X3225X42AS ③	PRL1X3225X42CS ③	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	42	■	■	■	100, 125, 150, 175, 200, 225	PRL1X3225X42A	PRL1X3225X42C	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	N/A	N/A	PRL1X3225X60AS ③	PRL1X3225X60CS ③	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	■	100, 125, 150, 175, 200, 225	PRL1X3225X60A	PRL1X3225X60C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	N/A	N/A	PRL1X3400X42AS ③	PRL1X3400X42CS ③	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
400	42	■	■	■	100, 125, 150, 175, 200, 225	PRL1X3400X42A	PRL1X3400X42C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	60	■	■	N/A	N/A	PRL1X3400X60AS ③	PRL1X3400X60CS ③	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	■	250, 300, 350, 400	PRL1X3400B42A ④	PRL1X3400B42C ④	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
400	60	■	■	■	100, 125, 150, 175, 200, 225	PRL1X3400X60A	PRL1X3400X60C	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
600	42	■	■	■	N/A	—	PRL1X3600X42C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
600	42	■	■	■	100, 125, 150, 175, 200, 225, 250, 300, 350, 400	—	PRL1X3600X42CL	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
225	18	■	■	N/A	N/A	PRL2X3225X18AS1 ③ ⑤	PRL2X3225X18CS1 ③ ⑤	EZB2036RBS	EZT2036S	EZT2036F	GWPBQ2036PR
225	30	■	■	N/A	N/A	PRL2X3225X30AS1 ③ ⑤	PRL2X3225X30CS1 ③ ⑤	EZB2042RBS	EZT2042S	EZT2042F	GWPBQ2042PR
225	42	■	■	■	100, 125, 150, 175, 200, 225	PRL2X3225X42A1 ⑤	PRL2X3225X42C1 ⑤	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	N/A	N/A	PRL2X3225X60AS1 ③ ⑤	PRL2X3225X60CS1 ③ ⑤	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	■	100, 125, 150, 175, 200, 225	PRL2X3225X60A1 ⑤	PRL2X3225X60C1 ⑤	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	■	100, 125, 150, 175, 200, 225	PRL2X3400X42A1 ⑤	PRL2X3400X42C1 ⑤	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	60	■	■	N/A	N/A	PRL2X3400X60AS1 ③ ⑤	PRL2X3400X60CS1 ③ ⑤	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	■	250, 300, 350, 400	PRL2X3400B42A1 ④ ⑤	PRL2X3400B42C1 ④ ⑤	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
400	60	■	■	■	100, 125, 150, 175, 200, 225	PRL2X3400X60A1 ⑤	PRL2X3400X60C1 ⑤	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR

① Use **28** for 28-inch wide boxes (i.e., EZB**28**42RBS)

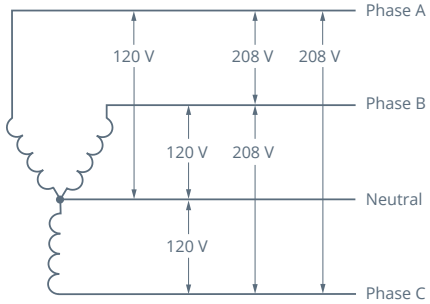
② Use **28** for 28-inch wide trims for EZT (i.e., EZT**28**48S).

③ S = Short—no TFL or SFB provisions.

④ 400 A interior sized for 750 kcmil.

⑤ PRL2X 120/208 at 65 k.

Note: Series ratings available for main-lug-only interiors with selected upstream main devices.



Note: For NEMA 4X enclosures see page 8.

Pow-R-Xpress unassembled panelboards—EZ Box and EZ Trim
Three-phase, four-wire, 480Y/277 V

Box, interior and trim color match the grouping in the chart.

		Capability				Catalog numbers					
						Interiors (less main device)		Boxes ①	Trims (NEMA 1) ②		
Ampere rating	Maximum number of poles	Main lugs	Main breaker	Through-feed lugs	Sub-feed breaker (400 A max.)	Aluminum bus	Copper bus	NEMA 1	Surface	Flush	NEMA 3R enclosures
100	18	■	■	■	N/A	PRL2X3100X18A	PRL2X3100X18C	EZB2036RBS	EZT2036S	EZT2036F	GWPBQ2036PR
100	30	■	■	■	100	PRL2X3100X30A	PRL2X3100X30C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
100	42	■	■	■	N/A	PRL2X3100X42A	PRL2X3100X42C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	18	■	■	N/A	N/A	PRL2X3225X18AS ③	PRL2X3225X18CS ③	EZB2036RBS	EZT2036S	EZT2036F	GWPBQ2036PR
225	30	■	■	N/A	N/A	PRL2X3225X30AS ③	PRL2X3225X30CS ③	EZB2042RBS	EZT2042S	EZT2042F	GWPBQ2042PR
225	30	■	■	■	100, 110, 125, 150, 175, 200, 225	PRL2X3225X30A	PRL2X3225X30C	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	42	■	N/A	N/A	N/A	PRL2X3225L42AS ③	PRL2X3225L42CS ③	EZB2042RBS	EZT2042S	EZT2042F	GWPBQ2042PR
225	42	■	■	N/A	N/A	PRL2X3225X42AS ③	PRL2X3225X42CS ③	EZB2048RBS	EZT2048S	EZT2048F	GWPBQ2048PR
225	42	■	■	■	100, 110, 125, 150, 175, 200, 225	PRL2X3225X42A	PRL2X3225X42C	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	N/A	N/A	PRL2X3225X60AS ③	PRL2X3225X60CS ③	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
225	60	■	■	■	100, 110, 125, 150, 175, 200, 225	PRL2X3225X60A	PRL2X3225X60C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	N/A	N/A	PRL2X3400X42AS ③	PRL2X3400X42CS ③	EZB2060RBS	EZT2060S	EZT2060F	GWPBQ2060PR
400	42	■	■	■	100, 110, 125, 150, 175, 200, 225	PRL2X3400X42A	PRL2X3400X42C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	60	■	■	N/A	N/A	PRL2X3400X60AS ③	PRL2X3400X60CS ③	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
400	42	■	■	■	250, 300, 350, 400	PRL2X3400B42A ④	PRL2X3400B42C ④	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
400	60	■	■	■	100, 110, 125, 150, 175, 200, 225	PRL2X3400X60A	PRL2X3400X60C	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR
600	42	■	■	■	N/A	—	PRL2X3600X42C	EZB2072RBS	EZT2072S	EZT2072F	GWPBQ2072PR
600	42	■	■	■	100, 110, 125, 150, 175, 200, 225, 250, 300, 350, 400	—	PRL2X3600X42CL	EZB2090RBS	EZT2090S	EZT2090F	GWPBQ2090PR

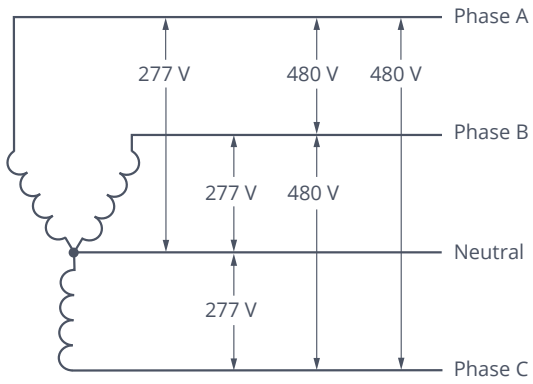
① Use **28** for 28-inch wide boxes (i.e., EZB**28**42RBS)

② Use **28** for 28-inch wide trims for EZT (i.e., EZT**28**48S).

③ S = Short—no TFL or SFB provisions.

④ 400 A interior sized for 750 kcmil.

Note: Series ratings available for main-lug-only interiors with selected upstream main devices.



Note: For NEMA 4X enclosures see page 8.

Lug kits and accessories

Main/through-feed lug kits

Ampere rating	Wire range Al/Cu	Catalog number
100	(1) #14–1/0	**LUGKIT100**
225	(1) #6–300 kcmil	**LUGKIT225**
400	(2) #2–500 kcmil	**LUGKIT400**
	(1) 500–750 kcmil	**LUGKIT750** ①
600	(2) #2–500 kcmil	**LUGKIT600**

① Applicable with 400 A "B" interior (i.e., PRL1X3400B42C).

Kits

	Catalog number		
Description	**100 A**	**225 A**	**400/600 A**
Service entrance kit—MCB	**SEKB** ①③ **SEKG** ②③	**SEPD2** ③④	**SEPD3** ③⑤
200% neutral kit	**2NK100**	**2NK225**	**1NK400**

① Only applicable for SE PRL1X with chassis-mounted BAB, QBH main breaker.

② Only applicable for SE PRL2X with chassis-mounted GHB main breaker.

③ Main breaker panelboards only—includes barrier kit and bonding jumper.

④ To be used with PDG2-frame main breaker.

⑤ To be used with PDG3-frame main breaker.

Sub-feed breaker covers—used when adding a sub-feed breaker to 400 A or 600 A panelboard

Minimum quantity of 5

Panelboard ampere rating	Sub-feed breaker max. ampere rating	Catalog number
400	225	**SFBCVR225ATOP** ① **SFBCVR225ABOT** ①
600	225	**SFBCVR225BTOP** ② **SFBCVR225BBOT** ②
600	400	**SFBCVR400ATOP** ② **SFBCVR400ABOT** ②

① Must be used in conjunction with the 400 A panelboard only when adding a sub-feed breaker.

② Must be used in conjunction with the 600 A panelboard only when adding a sub-feed breaker.

Accessories

Description	Catalog number
Isolated ground bar kit	**ISOGROUND**
Copper isolated ground bar kit	**ISOGROUNDCU**
Copper ground bar kit	**CUGROUND**
1P filler plate ①	**5155C62H01**
Series rating kit ②	**SRK**

① Each PRX panelboard comes with 50% filler plates, e.g., 18 circuit interior contains 9 filler plates.

② Series rating kit includes series rating book and adhesive sleeve and series rating sticker. If panelboard is being series rated higher than the base rating, an SRK is required.

NEMA 4X Enclosures

Accessories

Description	Catalog number
N4X2436N Stainless Steel enclosure & WP2436TSS Stainless steel inner trim	**N4X2436PRX304**
N4X2448N Stainless Steel enclosure & WP2448TSS Stainless steel inner trim	**N4X2448PRX304**
N4X2460N Stainless Steel enclosure & WP2460TSS Stainless steel inner trim	**N4X2460PRX304**
N4X2472N Stainless Steel enclosure & WP2472TSS Stainless steel inner trim	**N4X2472PRX304**
N4X2490N Stainless Steel enclosure & WP2490TSS Stainless steel inner trim	**N4X2490PRX304**
N4X2436N-316 Stainless Steel enclosure & WP2436TSS Stainless steel inner trim	**N4X2436PRX316**
N4X2448N-316 Stainless Steel enclosure & WP2448TSS Stainless steel inner trim	**N4X2448PRX316**
N4X2460N-316 Stainless Steel enclosure & WP2460TSS Stainless steel inner trim	**N4X2460PRX316**
N4X2472N-316 Stainless Steel enclosure & WP2472TSS Stainless steel inner trim	**N4X2472PRX316**
N4X2490N-316 Stainless Steel enclosure & WP2490TSS Stainless steel inner trim	**N4X2490PRX316**

Convertible main circuit breaker kits—single-phase or three-phase

Note: Kits include circuit breaker, line terminals, cover and load bus connectors.

Max. voltage	Ampere rating	kAIC rating	Breaker type	Wire range Al/Cu	Catalog number
240	100	35	PDD23F0100TFFL	(1) #14–1/0	**BKD2F100**
	125	35	PDD23F0125TFFL	(1) #4–4/0	**BKD2F125**
	150	35	PDD23F0150TFFL	(1) #4–4/0	**BKD2F150**
	175	35	PDD23F0175TFFL	(1) #4–4/0	**BKD2F175**
	200	35	PDD23F0200TFFL	(1) #4–4/0	**BKD2F200**
	225	35	PDD23F0225TFFL	(1) #4–4/0	**BKD2F225**
240	100	65	PDD23G0100TFFL	(1) #14–1/0	**BKD2G100**
	125	65	PDD23G0125TFFL	(1) #4–4/0	**BKD2G125**
	150	65	PDD23G0150TFFL	(1) #4–4/0	**BKD2G150**
	175	65	PDD23G0175TFFL	(1) #4–4/0	**BKD2G175**
	200	65	PDD23G0200TFFL	(1) #4–4/0	**BKD2G200**
	225	65	PDD23G0225TFFL	(1) #4–4/0	**BKD2G225**
240	250	65	PDD33G0250TFAN	(1) 250–500 kcmil	**BKD3G250**
	300	65	PDD33G0300TFAN	(1) 250–500 kcmil	**BKD3G300**
	350	65	PDD33G0350TFAN	(1) 250–500 kcmil	**BKD3G350**
	400	65	PDD33G0400TFAN	(2) 3/0–250 kcmil or (1) 3/0–500 kcmil	**BKD3G400**
480	100	35	PDG23G0100TFFL	(1) #14–1/0	**BKG2G100**
	110	35	PDG23G0110TFFL	(1) #4–4/0	**BKG2G110**
	125	35	PDG23G0125TFFL	(1) #4–4/0	**BKG2G125**
	150	35	PDG23G0150TFFL	(1) #4–4/0	**BKG2G150**
	175	35	PDG23G0175TFFL	(1) #4–4/0	**BKG2G175**
	200	35	PDG23G0200TFFL	(1) #4–4/0	**BKG2G200**
	225	35	PDG23G0225TFFL	(1) #4–4/0	**BKG2G225**
480	100	65	PDG23M0100TFFL	(1) #14–1/0	**BKG2M100**
	110	65	PDG23M0110TFFL	(1) #4–4/0	**BKG2M110**
	125	65	PDG23M0125TFFL	(1) #4–4/0	**BKG2M125**
	150	65	PDG23M0150TFFL	(1) #4–4/0	**BKG2M150**
	175	65	PDG23M0175TFFL	(1) #4–4/0	**BKG2M175**
	200	65	PDG23M0200TFFL	(1) #4–4/0	**BKG2M200**
	225	65	PDG23M0225TFFL	(1) #4–4/0	**BKG2M225**
480	250	35	PDG33G0250TFAN	(1) 250–500 kcmil	**BKG3G250**
	300	35	PDG33G0300TFAN	(1) 250–500 kcmil	**BKG3G300**
	350	35	PDG33G0350TFAN	(1) 250–500 kcmil	**BKG3G350**
	400	35	PDG33G0400TFAN	(2) 3/0–250 kcmil or (1) 3/0–500 kcmil	**BKG3G400**
480	250	65	PDG33M0250TFAN	(1) 250–500 kcmil	**BKG3M250**
	300	65	PDG33M0300TFAN	(1) 250–500 kcmil	**BKG3M300**
	350	65	PDG33M0350TFAN	(1) 250–500 kcmil	**BKG3M350**
	400	65	PDG33M0400TFAN	(2) 3/0–250 kcmil or (1) 3/0–500 kcmil	**BKG3M400**
480	500	35	PDG33G0500TFAN	(2) #2–500 kcmil	**BKG3G500**
	600	35	PDG33G0600TFAN	(2) #2–500 kcmil	**BKG3G600**

Notes:

1. Add **B** to the end of any catalog number for a vertical bottom breaker kit.
2. Add **H** for three-phase and **H1** for single-phase to the end of the catalog number for horizontal mounted main—225 A maximum ampere rating only.
3. PD2 and PD3 (130ACDC) and auxiliary (1NO/1NC) switch available where applicable (vertical and horizontal); order separately.
4. PD2 and PD3, padlockable and non-padlockable lockoff device available; order separately.
5. Order optional lug kit catalog number **PDG2X3TA225K** for 175 A to 225 A PDG2. Must be ordered separately.
6. Order optional lug kit catalog number **PDG3X3TA402** for 400 A PD3–400 A frame, three-pole circuit breakers, to provide terminations for (1) 500–750 kcmil. Must be ordered separately.

Safety switches/disconnects

Application considerations for proper selection

- Which type of switch do you need?
  - General-duty
  - Heavy-duty
  - Double-throw
- How many poles?
  - 1, 2, 3, 4, 6
- Choose the maximum circuit voltage.
  - 240 Vac
  - 600 Vac
- What current (ampere) rating do you need?
  - 30 A, 60 A, 100 A, 200 A, 400 A, 600 A, 800 A, 1200 A
- Should it be fused, non-fused or fusible with neutral?
  - Fusible without neutral
  - Non-fusible
  - Fusible with neutral
- What type of enclosure do you need?
  - NEMA 4X non-metallic
  - NEMA 1
  - NEMA 4 painted steel
  - NEMA 3R
  - NEMA 4X stainless steel



Catalog numbering system—safety switches

DH 3 6 1 N G K

Switch type
DG = General-duty
DH = Heavy-duty
DT = Double-throw

Poles/blades
1 = 1 pole
2 = 2 poles
3 = 3 poles
4 = 4 poles
6 = 6 poles

Voltage
2 = 240 Vac
6 = 600 Vac

Amperes
1 = 30 A
2 = 60 A
3 = 100 A
4 = 200 A
5 = 400 A
6 = 600 A
7 = 800 A
8 = 1200 A

Fusible/non-fusible or neutral
F = Fusible without neutral
U = Non-fusible
N = Fusible with neutral

NEMA enclosure ratings
C = NEMA 4X non-metallic
G = NEMA 1
P = NEMA 4 painted steel
R = NEMA 3R
W = NEMA 4X stainless steel

Series
K = Design all general-duty switches above 200 A and all heavy-duty switches incorporate K-Series switch design
B = Design general-duty 30–100 A

General-duty safety switches (disconnects)

Two-pole—240 Vac (suitable for service entrance use with a neutral or ground kit)

Current rating (amps)	Type	Enclosure type	Max. hp ratings ① Single-phase 120 Vac	Single-phase 240 Vac	Catalog number
30	Fusible with neutral	NEMA 1	–	1.5–3	DG221NGB
30	Non-fusible	NEMA 1	2	3	DG221UGB
30	Fusible with neutral	NEMA 3R	–	1.5–3	DG221NRB
30	Non-fusible	NEMA 3R	2	3	DG221URB
60	Fusible with neutral	NEMA 1	–	3–10	DG222NGB
60	Non-fusible	NEMA 1	3	10	DG222UGB
60	Fusible with neutral	NEMA 3R	–	3–10	DG222NRB
60	Non-fusible	NEMA 3R	3	10	DG222URB
100	Fusible with neutral	NEMA 1	–	7.5–15	DG223NGB
100	Non-fusible	NEMA 1	–	15	DG223UGB
100	Fusible with neutral	NEMA 3R	–	7.5–15	DG223NRB
100	Non-fusible	NEMA 3R	–	15	DG223URB

① Maximum hp ratings for fusible units apply only when dual element time-delay fuses are used.

Three-pole—240 Vac (suitable for service entrance use with a neutral or ground lug kit)

Current rating (amps)	Type	Enclosure type	Max. hp ratings ① Single-phase 240 Vac	Three-phase 240 Vac	Catalog number
30	Fusible with neutral	NEMA 1	1.5–3	3–7.5	DG321NGB
30	Non-fusible	NEMA 1	3	7.5	DG321UGB
30	Fusible with neutral	NEMA 3R	1.5–3	3–7.5	DG321NRB
30	Non-fusible	NEMA 3R	3	7.5	DG321URB
60	Fusible with neutral	NEMA 1	3–10	7.5–15	DG322NGB
60	Non-fusible	NEMA 1	10	15	DG322UGB
60	Fusible with neutral	NEMA 3R	3–10	7.5–15	DG322NRB
60	Non-fusible	NEMA 3R	10	15	DG322URB
100	Fusible with neutral	NEMA 1	7.5–15	15–30	DG323NGB
100	Non-fusible	NEMA 1	15	30	DG323UGB
100	Fusible with neutral	NEMA 3R	7.5–15	15–30	DG323NRB
100	Non-fusible	NEMA 3R	15	30	DG323URB

① Maximum hp ratings for fusible units apply only when dual element time-delay fuses are used.

Compliances, specifications and availability are subject to change without notice. Please contact your Eaton representative for availability.

General-duty safety switches (disconnects) (continued)

Neutral and ground lug kits (general duty)

Description	Catalog number
Neutral kit for 30 A switches	DG030NB
Neutral kit for 60–100 A switches	DG100NB
Ground lug kit for 30–100 A switches	DG030GB

Class R fuse adapter kits

Ampere rating	Type	Voltage	Catalog number
30	General-duty	240	DG030RB
60	General-duty	240	DS16FK
100	General-duty	240	DG100RB

Heavy-duty safety switches (disconnects)

Three-pole—480–600 Vac
(suitable for service entrance use with a neutral or ground lug kit below)

Current rating (amps)	Type	Enclosure type	Max. hp ratings with time delay fuses				Catalog number
			Single-phase		Three-phase		
			480 V	600 V	480 V	600 V	
30	Fusible	NEMA 1	7.5	10	15	20	DH361FGK ①
30	Non-fusible	NEMA 1	7.5	10	20	30	DH361UGK
30	Fusible	NEMA 3R	7.5	10	15	20	DH361FRK ①
30	Non-fusible	NEMA 3R	7.5	10	20	30	DH361URK
30	Fusible	NEMA 4X	7.5	10	15	20	DH361FWK ①
30	Non-fusible	NEMA 4X	7.5	10	20	30	DH361UWK
60	Fusible	NEMA 1	20	25	30	50	DH362FGK
60	Non-fusible	NEMA 1	20	25	50	60	DH362UGK
60	Fusible	NEMA 3R	20	25	30	50	DH362FRK
60	Non-fusible	NEMA 3R	20	25	50	60	DH362URK
60	Fusible	NEMA 4X	20	25	30	50	DH362FWK
60	Non-fusible	NEMA 4X	20	25	50	60	DH362UWK
100	Fusible	NEMA 1	30	40	60	75	DH363FGK
100	Non-fusible	NEMA 1	40	50	75	100	DH363UGK
100	Fusible	NEMA 3R	30	40	60	75	DH363FRK
100	Non-fusible	NEMA 3R	40	50	75	100	DH363URK
100	Fusible	NEMA 4X	30	40	60	75	DH363FWK
100	Non-fusible	NEMA 4X	40	50	75	100	DH363UWK
200	Fusible	NEMA 1	50	50	125	150	DH364FGK
200	Non-fusible	NEMA 1	50	50	125	150	DH364UGK
200	Fusible	NEMA 3R	50	50	125	150	DH364FRK
200	Non-fusible	NEMA 3R	50	50	125	150	DH364URK
200	Fusible	NEMA 4X	50	50	125	150	DH364FWK
200	Non-fusible	NEMA 4X	50	50	125	150	DH364UWK

① For 30 A switches requiring Class J fusing, switch must be ordered with the Class J clips from the factory by adding a suffix "J" on the end.

Note: For fuses, please consider Bussmann fuses. For fuse selection assistance, please visit https://disconnectfuseselector.bussmann.com/

Safety switch kits

Neutral and ground lug kits ①

Description	Catalog number
Neutral kit for 30–60 A switches	DH030NK
Neutral kit for 100 A switches	DH100NK
Neutral kit for 200 A switches (NEMA 1 & NEMA 3R)	DH200NK
Ground lug kit for 30–100 A switches	DS100GK
Ground lug kit for 200 A switches	DS200GK

① A factory-installed ground lug is supplied on all NEMA 4, 4X and 12 safety switches, as well as all 400 A and higher NEMA 1 and 3R safety switches. A factory-installed ground lug is also supplied on all heavy-duty NEMA 1 and 3R 30–200 A switches that do not have a factory-installed neutral.

Class R fuse adapter kits

Ampere rating	Type	Voltage	Catalog number
30	Heavy-duty	600	DS16FK
60	Heavy-duty	600	DS26FK
100	Heavy-duty	600	DS36FK
200	Heavy-duty	600	DS46FK

Class J fuse adapter kit ①

Ampere rating	Type	Voltage	Catalog number
60	Heavy-duty	600	DS26JK

① 30 A switches must be ordered from the factory with Class J fuse provisions by adding suffix "J" at the end of the switch catalog number. 100 A and 200 A switches can be field modified by moving the load side fuse base.

Compliances, specifications and availability are subject to change without notice. Please contact your Eaton representative for availability.

Transformers

Application considerations for proper selection

- What type of enclosure is required?
  - Ventilated
  - Encapsulated
- What is the primary voltage? (input voltage)
  - 240 V x 480 V (single-phase)
  - 480 V delta (three-phase, three-wire)
- What is the secondary voltage? (output voltage)
  - 120/240 V (single-phase)
  - 208Y/120 V (three-phase, four-wire)
  - 240 V delta with 120 V lighting tap
- How many phases?
  - Single-phase
  - Three-phase
- What kVA transformer is required?
  - If single-phase encapsulated, kVAs are: 0.05, 0.075, 0.10, 0.15, 0.25, 0.50, 0.75, 1, 1.5, 2, 3, 5, 7.5, 10, 15, 25, 37.5
  - If single-phase ventilated, kVAs are: 15, 25, 37.5, 50, 75, 100, 167
  - If three-phase encapsulated, kVAs are: 3, 6, 9, 15, 30, 45, 75
  - If three-phase ventilated, kVAs are: 15, 30, 45, 75, 112.5, 150, 225, 300
- If a ventilated transformer was selected
  - Field kits: lug kits or weathershields
  - Select from selection tables

Catalog numbering system—DOE 2016 ventilated transformers

V 48 M 28 T 75 16 __

Type
T = DS-3 (single-phase ventilated)
V = DT-3 (three-phase ventilated)

Primary voltage
20 = 240 V x 480 V ①
48 = 480 V delta ②

Taps
D = 2@+2.5%, 2@–2.5%
G = 2@–5%
L = 2@–5%X 4@–2.5%
M = 2@+2.5%,4@–2.5%
N = None
P = 1@+5%, 2@–5%X ① 2@+2.5%,4@–2.5%

Secondary voltage
11 = 120/240 V ①
28 = 208Y/120 V
22 = 240 V delta with 120 V lighting tap

Phase
S = Single-phase
T = Three-phase

kVA
15 = 15
25 = 25 ①
30 = 30
37 = 37.5 ①
45 = 45
50 = 50 ①
75 = 75
99 = 100 ①
12 = 112.5
49 = 150
67 = 167 ①
22 = 225
33 = 300

DOE 10 CFR 431.2016
16 = DOE 2016 efficiency

Suffix options
Blank = Aluminum windings
CU = Copper windings
ES = Shielded

① Typically used with single-phase transformers.
② Three-phase, three-wire.



Catalog numbering system—encapsulated transformers

S 20 N 11 S 05 A __

Type
S = EP (single-phase encapsulated)
Y = EPT (three-phase encapsulated)

Primary voltage
20 = 240 V x 480 V ①
48 = 480 V delta ②

Taps
D = 2@+2.5%, 2@–2.5%
G = 2@–5%
L = 2@–5%X 4@–2.5%
M = 2@+2.5%,4@–2.5%
N = None
P = 1@+5%, 2@–5%X ① 2@+2.5%,4@–2.5%

Secondary voltage
11 = 120/240 V ①
28 = 208Y/120 V
22 = 240 V delta with 120 V lighting tap

Phase and shield
S = Single-phase
T = Three-phase
P = Epoxy potted ③
E = Shielded

kVA
81 = 0.05 ①
85 = 0.075 ①
82 = 0.10 ①
83 = 0.15 ①
26 = 0.25 ①
51 = 0.50 ①
76 = 0.75 ①
01 = 1 ①
16 = 1.5 ①
02 = 2 ①
03 = 3
05 = 5 ①
06 = 6
07 = 7.5 ①
09 = 9
10 = 10 ①
15 = 15
25 = 25 ①
30 = 30
37 = 37.5 ①
45 = 45
75 = 75

Model number
Model number (A–Z) omitted when additional suffixes are used

Suffix options
Blank = Aluminum windings
CU = Copper windings

① Typically used with single-phase transformers.
② Three-phase, three-wire.
③ Single-phase 0.25–2 kVA encapsulated transformers only.

Compliances, specifications and availability are subject to change without notice. Please contact your Eaton representative for availability.

General-purpose transformers

Three-phase ventilated, 480 delta—208Y/120, 150 °C rise, aluminum windings, DOE 2016

kVA	Frame number	Wiring diagram	Weathershield	Typical lug kit	Catalog number
15	939	280B	WS57	LKS1	V48M28T1516 ①
30	940	280B	WS58	LKS1	V48M28T3016 ①
45	940	280B	WS58	LKS1	V48M28T4516 ①
75	942	280B	WS59	LKS2	V48M28T7516 ②
112.5	943	280B	WS60	LKS2	V48M28T1216 ②
150	943	280B	WS60	LKS3	V48M28T4916 ②
225	944	280B	WS61	LKS3	V48M28T2216
300	945	280B	WS62	LKS3	V48M28T3316

① Suitable for use with wall-mounted bracket WMB05.

② Suitable for use with wall-mounted bracket WMB04.

Three-phase ventilated, 480 delta—240/120 lighting tap, 150 °C rise, aluminum windings, DOE 2016

kVA	Frame number	Wiring diagram	Weathershield	Typical lug kit	Catalog number
15	939	282B	WS57	LKS1	V48M22T1516 ①
30	940	282B	WS58	LKS1	V48M22T3016 ①
45	940	282B	WS58	LKS1	V48M22T4516 ①
75	942	282B	WS59	LKS2	V48M22T7516 ②
112.5	943	282B	WS60	LKS2	V48M22T1216 ②
150	943	282B	WS60	LKS3	V48M22T4916 ②
225	944	282B	WS61	LKS3	V48M22T2216
300	945	282B	WS62	LKS3	V48M22T3316

① Suitable for use with wall-mounted bracket WMB05.

② Suitable for use with wall-mounted bracket WMB04.

Three-phase encapsulated, 480 delta—208Y/120, 115 °C rise

kVA	Frame number	Wiring diagram	Catalog number
3	201	70A	Y48G28T03N
6	200	70A	Y48G28T06N
9	103	70A	Y48G28T09N
15	95	72B	Y48D28T15N
30	243	84A	Y48M28T30N
45	244	84A	Y48M28T45N
75	245	84A	Y48M28T75N

Note: For frame drawings and wiring diagrams, refer to www.eaton.com/transformers.

Single-phase ventilated, 240 x 480—120/240, 150 °C rise, aluminum windings, DOE 2016

kVA	Frame number	Wiring diagram	Weathershield	Typical lug kit	Catalog number
15	842	3XA	WS45	LKS1	T20P11S1516 ①
25	842	3XA	WS45	LKS1	T20P11S2516 ①
37.5	843	3XA	WS43	LKS1	T20P11S3716
50	843	3XA	WS43	LKS2	T20P11S5016
75	844	3XA	WS44	LKS2	T20P11S7516
100	844	3XA	WS44	LKS3	T20P11S9916
167	814	288A	WS13	LKS3	T48P11S6716 ②

① Suitable for use with wall-mounted bracket WMB01.

② 480 V primary only.

Single-phase encapsulated 240 x 480—120/240, 115 °C rise

kVA	Frame number	Wiring diagram	Catalog number
0.05	52	3A	S20N11S81N
0.075	53	3A	S20N11S85N
0.1	54	3A	S20N11S82N
0.15	55	3A	S20N11S83N
0.25	57P	3A	S20N11P26P
0.5	57P	3A	S20N11P51P
0.75	58P	3A	S20N11P76P
1	67P	3A	S20N11P01P
1.5	67P	3A	S20N11P16P
2	68P	3A	S20N11P02P
3	176	3A	S20N11S03N
5	177	3A	S20N11S05N
7.5	178	3A	S20N11S07N
10	179	3A	S20N11S10N
15	180	3A	S20N11S15N
25	182	23A	S20L11S25N
37.5	300A	248A	S20L11S37

Note: For frame drawings and wiring diagrams, refer to www.eaton.com/transformers.

General-purpose transformers sizing tables

Three-phase transformer full load current

	Rated line–line voltage						
kVA	208	240	480	600	2400	4160	4800
3	8.3	7.2	3.6	2.9	0.7	0.4	0.4
6	16.7	14.4	7.2	5.8	1.4	0.8	0.7
9	25.0	21.7	10.8	8.7	2.2	1.2	1.1
15	41.6	36.1	18.0	14.4	3.6	2.1	1.8
30	83.3	72.2	36.1	28.9	7.2	4.2	3.6
45	124.9	108.3	54.1	43.3	10.8	6.2	5.4
75	208.2	180.4	90.2	72.2	18.0	10.4	9.0
112.5	312.3	270.6	135.3	108.3	27.1	15.6	13.5
150	416.4	360.9	180.4	144.3	36.1	20.8	18.0
225	624.6	541.3	270.6	216.5	54.1	31.2	27.1
300	832.7	721.7	360.9	288.7	72.2	41.6	36.1
500	1387.9	1202.8	601.4	481.1	120.3	69.4	60.1
750	2081.9	1804.3	902.1	721.7	180.4	104.1	90.2
1000	2775.8	2405.7	1202.8	962.3	240.6	138.8	120.3

Note: Line current = (kVA x 1000) / (line voltage x 1.732).

Single-phase transformer full load current

	Rated line–line voltage								
kVA	120	208	240	277	480	600	2400	4160	4800
0.5	4.2	2.4	2.1	1.8	1.0	0.8	0.2	0.1	0.1
1	8.3	4.8	4.2	3.6	2.1	1.7	0.4	0.2	0.2
1.5	12.5	7.2	6.3	5.4	3.1	2.5	0.6	0.4	0.3
2	16.7	9.6	8.3	7.2	4.2	3.3	0.8	0.5	0.4
3	25.0	14.4	12.5	10.8	6.3	5.0	1.3	0.7	0.6
5	41.7	24.0	20.8	18.1	10.4	8.3	2.1	1.2	1.0
7.5	62.5	36.1	31.3	27.1	15.6	12.5	3.1	1.8	1.6
10	83.3	48.1	41.7	36.1	20.8	16.7	4.2	2.4	2.1
15	125.0	72.1	62.5	54.2	31.3	25.0	6.3	3.6	3.1
25	208.3	120.2	104.2	90.3	52.1	41.7	10.4	6.0	5.2
37.5	312.5	180.3	156.3	135.4	78.1	62.5	15.6	9.0	7.8
50	416.7	240.4	208.3	180.5	104.2	83.3	20.8	12.0	10.4
75	625.0	360.6	312.5	270.8	156.3	125.0	31.3	18.0	15.6
100	833.3	480.8	416.7	361.0	208.3	166.7	41.7	24.0	20.8
167	1391.7	802.9	695.8	602.9	347.9	278.3	69.6	40.1	34.8
250	2083.3	1201.9	1041.7	902.5	520.8	416.7	104.2	60.1	52.1
333	2775.0	1601.0	1387.5	1202.2	693.8	555.0	138.8	80.0	69.4

Note: Line current = (kVA x 1000) / line voltage.

Compliances, specifications and availability are subject to change without notice. Please contact your Eaton representative for availability.

NOTES

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