

Simple, centralized protection in a compact footprint



Featuring PRL1a and 2a dual sub-feed panelboards

Eaton's Pow-R-Line™ 1a and 2a dual sub-feed panelboards are designed to optimize power distribution systems by decreasing electrical equipment footprint and consolidating protection devices within a single enclosure. As one of Eaton's latest power management innovations, the new panelboards enable two branch devices rated from 100 A through 225 A to safely feed downstream electrical equipment—such as a transformer or other protection device—empowering the user to get more capability out of a single panelboard while optimizing physical footprint.



Powering Business Worldwide

Key features and benefits

Enhanced safety

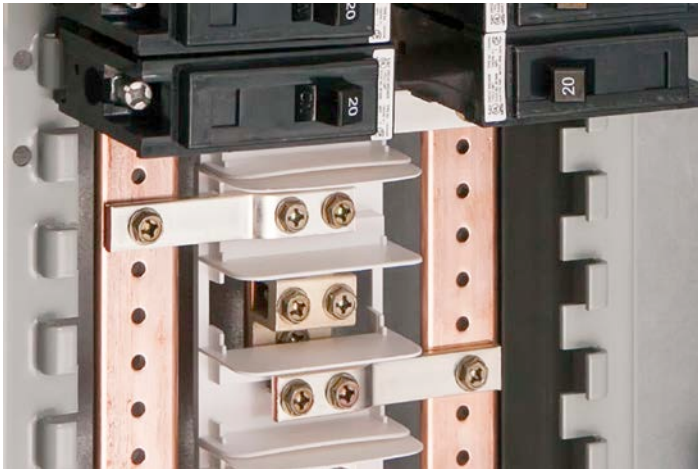
- Eliminate the danger of sharp edges with painted chassis components and corners
- Reduce accidental damage with the structural integrity of a reinforced deadfront bracket design
- Minimize potential risk through laser-cut trims that eliminate sharp edges and burrs while ensuring a consistently accurate fit

Improved installation efficiency

- Achieve easy wiring compartment access with only four deadfront cover screws
- Reduce complexity with QuaDrive screws that allow installers to use preferred tools
- Facilitate installation in dimly lit work areas with reflective white branch breaker insulation

Industry proven reliability

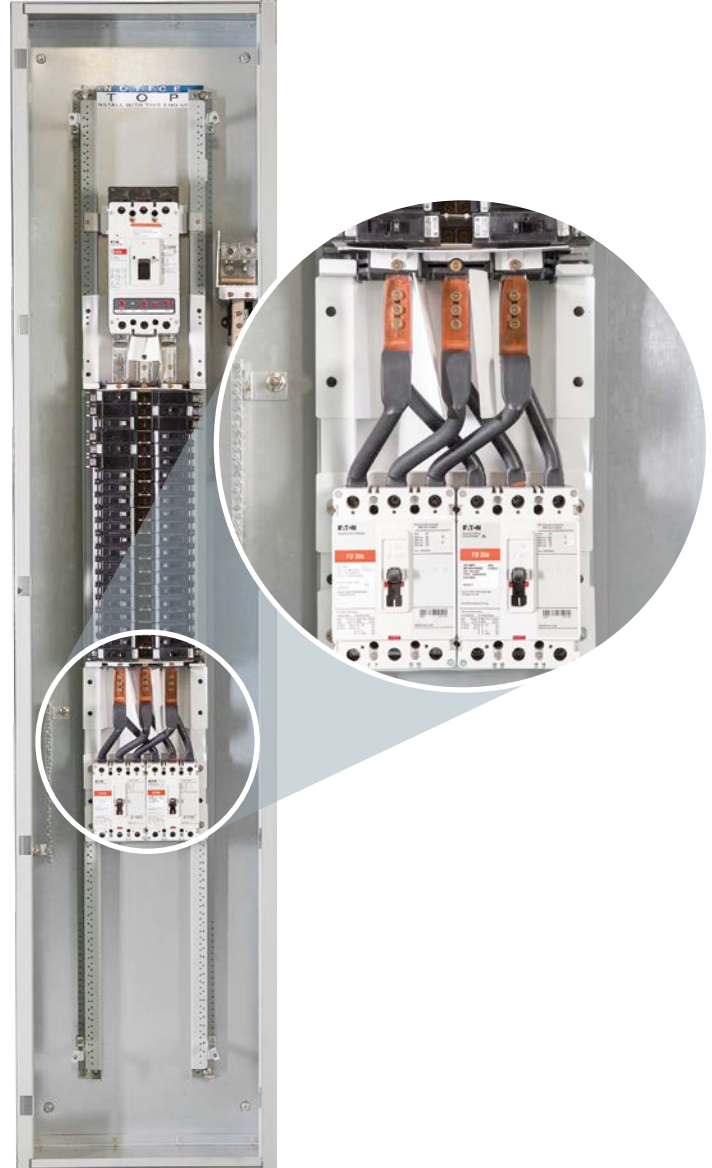
- Provides compliance with UL® 67 and UL 50, in addition to meeting all application requirements of NEMA®, NEC® and federal specification WP-115c; Canadian CSA® label is available upon request
- Tested and qualified to meet the seismic requirements of International Building Code (IBC), California Building Code (CBC), and California Office of Statewide Health Planning and Development (OSHPD)



PRL1a chassis provision

Typical applications

An example application for the PRL1a/PRL2a dual sub-feed panelboard would be to distribute two loads between 100 A and 225 A downstream, such as another panelboard or transformer. For transformer protection, a 225 A sub-feed circuit breaker can provide protection for up to a 75 kVA transformer at 208 V primary side or up to a 150 kVA transformer at 480 V primary side. This feature enhancement enables the user to gain more capabilities and space savings out of a single PRL1/PRL2a panelboard.



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Technical specifications

PRL1a and PRL2a characteristics

Description	Rating
Pow-R-Line 1a	
Voltage	240 Vac maximum
Main breaker	100–600 A
Main lug	100–600 A
Maximum kAIC	10–22 kA fully rated 22–200 kA series rated
Branch circuit breaker	15–100 A
Branch breaker connector	140 A
Branch circuit breaker types	BAB, BAB-H, QBH (QBHW, QBHW-H), QBGFT, QBGFEP, QBHGFT, QBHGFEP, HQP, QPHW, QHPX, QPGF, QPHGF, QPGEP, QPHGFEP, BABR, QBAF, QBAG, QBHAF, QBACAF and QBHCAF
Sub-feed breaker types	225 A Frame ED, EDB, EDS, EDH, FD, FDE, HFD, HFDE and FDCE 250 A Frame JD 400 A Frame DK, KD 600 A Frame LGE, LGH, LGC
Dual sub-feed breaker types	ED, EDB, EDS, EDH, FD, FDE, HFD, HFDE and FDCE ①
Pow-R-Line 2a	
Voltage	240 Vac, 480Y/277 Vac and 125/250 Vdc maximum
Main breakers	100–600 A
Main lug	100–600 A
Maximum kAIC	240 Vac 65 kA fully rated 65–200 kA series rated 480Y/277 Vac 14 kA fully rated 22–150 kA series rated 125/250 Vdc 10–14 kA fully rated
Branch circuit breaker	15–100 A
Branch breaker connector	140 A
Branch circuit breaker types	GB, GHB, GHGFEP, GHBS, HGHB, GQ, GHQ, GHQRS and GHQRSP
Sub-feed breaker types	225 A Frame FD, FDE, HFD, HFDE and FDCE 250 A Frame JD, HJD 400 A Frame KD, HKD 600 A Frame LGE, LGH, LGC
Dual sub-feed breaker types	FD, FDE, HFD, HFDE and FDCE ①

① 225 A maximum frame amperage for dual sub-feed breakers.

NEMA enclosure options

The dual sub-feed panelboard is available in various types of NEMA enclosures, including: Type 1, 2, 3R, 4, 4X and 12. Optional 28-inch wide boxes are also available for applications that require additional space for cable bending.

Dimensions in inches (mm)

- Heights
 - 48 (1219.2)
 - 60 (1524.0)
 - 72 (1828.8)
 - 90 (2286.0)
- Widths ①
 - 20 (508.0) standard
 - 28 (711.2) optional
- Depth
 - 5.75 (146.1) ①

① Dimensions for NEMA Type 1 enclosure. For dimensions of optional NEMA enclosure, contact your Eaton distributor or sales engineer.



Unique deadfront bracket design



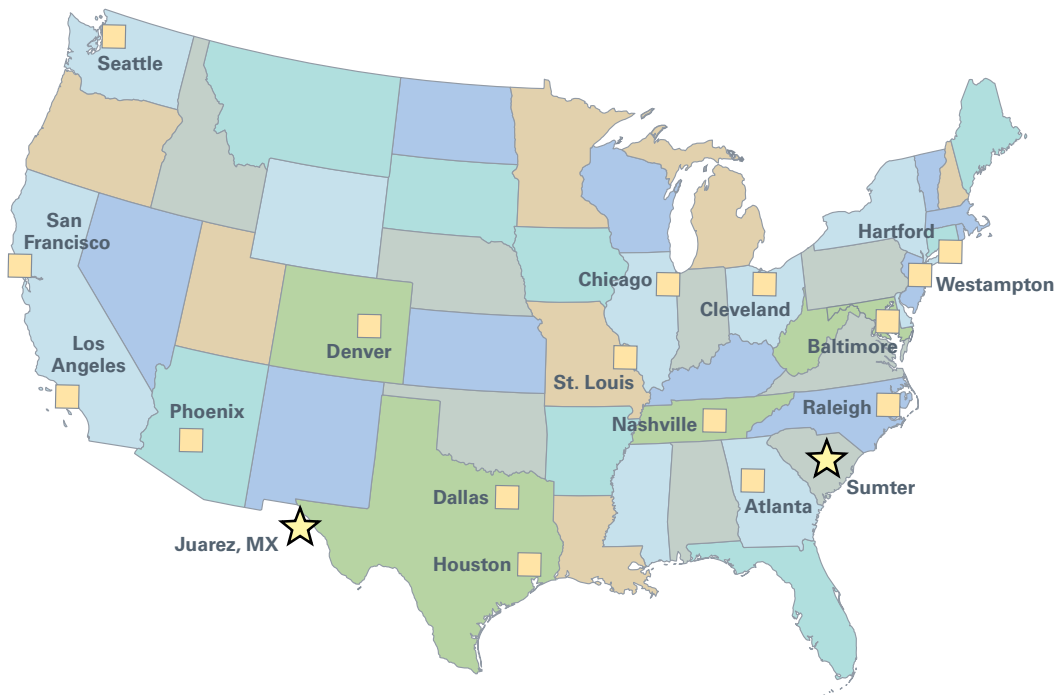
Laser-cut trims

Factory-installed modifications and accessories

Each Pow-R-Line 1a and 2a panelboard is assembled by an experienced technician who can easily and efficiently incorporate any combination of modifications and accessories. Below is a list of accessories we offer with the dual sub-feed PRL1a and PRL2a panels:

- Breaker lock-off devices
- Compression type lugs (main only)
- Ground fault breakers
- Arc fault breakers
- Increased dimensions
- Trim to fix existing boxes
- Main breakers with solid-state trip units
- Permanent circuit numbering
- Service entrance
- Special trims and locks
- Surge protection devices
- Integrated metering

Note: Contact your local Eaton distributor or sales engineer for additional information on these and other modifications and accessories.



Eaton Pow-R-Line panelboards and switchboards are built to your requirements at our world-class manufacturing plants in Sumter, SC and Juarez, Mexico. In addition, Eaton has 16 regional Satellite facilities located across the country to meet your panelboard and switchboard service needs.

For an unparalleled commitment to your specific needs, please visit your local Satellite facility.

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To learn more,
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Printed in USA
Publication No. PA014014EN / Z20406
February 2018

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