Pow-R-Line Xpert panelboards and switchboards

Product guide book

PRLXD switchboard

Pow-R-Line Xpert panelboards

PRLX switchboard

FATON

Powering Business Worldwide

Pow-R-Line Xpert
Panelboards and switchboards

Built at the intersection of experience and intelligence.

What do you get when you combine over 90 years of experience with industry-first power innovations? Intelligent circuit protection for panelboards and switchboards that can provide accurate, actionable data to increase efficiency. Built on a foundation of excellence, the feature-rich Pow-R-Line Xpert™ family with Eaton's new Power Defense™ circuit breakers includes built-in communications, energy metering and breaker health diagnostics for safer, more reliable systems.

Features and benefits

PREDICTIVE

Breaker health diagnostics

Monitors and communicates breaker health status, enabling predictive maintenance to avoid costly, unscheduled downtime

CLEAR VISION

Re-engineered deadfront covers

Offers full visibility to breaker faceplate as well as accessibility to trip units without having to remove deadfront cover

PREPARED

Standardizing Arcflash Reduction Maintenance System™ (ARMS) functionality

Enhanced and consistent functionality of industry-leading solution to reduce arc flash energy released during maintenance operations

INSIGHTFUL

Integrated metering capabilities

Simplifies installation by current and voltage metering internal to trip unit with no need for external modules

CONNECTED

Embedded communications

Helps to reduce cost by eliminating the need for separate communication components and associated wiring

ADAPTABLE

Thru-cover accessories

Easily removable secondary covers designed to install a wide range of accessories in field without voiding factory warranty
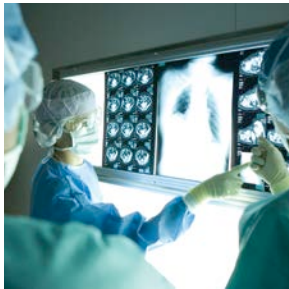
EFFICIENT

PXPM testing and configuration

PXR trip units equipped with micro-USB connection for secondary injection testing through your PC, saving you labor hours and the cost of expensive test kits

Panelboards and switchboards are used to safely and efficiently distribute power in data centers, healthcare applications, commercial buildings, institutions and much more.

Pow-R-Line Xpert
At a glance

CONNECTED

Embedded
communications

PREDICTIVE

Breaker health diagnostics

PREPARED

Standardizing Arcflash
Reduction Maintenance
System (ARMS)
functionality

ADAPTABLE

Thru-cover accessories
Dedicated left pocket,
snap-in accessories

INSIGHTFUL

Integrated metering
capabilities

EFFICIENT

PXPM testing and
configuration
Eaton.com/PXPM

CLEAR VISION

Re-engineered deadfront
covers

Virtually interact with these features at Eaton.com/PRLXpert

MCCB PXR 10

MCCB PXR 20
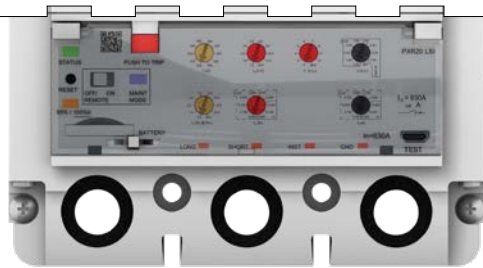
MCCB PXR 20D
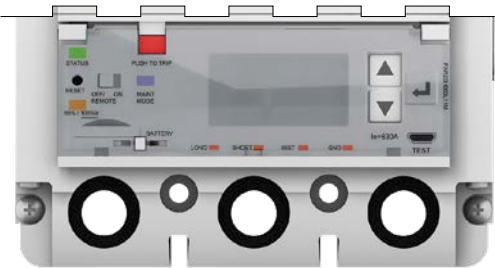
Power Xpert Release (PXR) electronic trip unit features

Features	PXR 10	PXR 20	PXR 20D	PXR 25
Protection types	LSI	LSI/LSIG	LSI/LSIG	LSI/LSIG
Status indication	●	●	●	●
USB secondary injection testing	●	●	●	●
Programmable by USB port (PXPM)	●	●	●	●
Independent instantaneous adjustment	●	●	●	●
Adjustable L, S, I, G pickup and time		●	●	●
Cause of trip indication	▲	●	●	●
Load alarm indication with 2 levels		●	●	●
Programmable load alarm levels			●	●
Ground fault protection and alarm		○	○	○
Arcflash Reduction Maintenance System (ARMS) available PD3, PD4, PD5, PD6, PD-NF, PD-RF		○	○	○
Zone selective interlocking (ZSI) with indication		○	○	○
Programmable relays		○	●	●
Modbus RTU communication		○	●	●
CAM module communication		○	○	○
Rotatable LCD display			●	●
Breaker health and diagnostic monitoring		▲	●	●
Voltage metering accurate to 0.5%				●
Current metering accuracy		2.0%	0.5%	0.5%
Voltage metering accuracy				0.5%
Power and energy metering accuracy				1.0%

● Standard

○ Optional

▲ Available through USB port (PXPM)

A convergence of industry-first smarts and trusted know-how.

Eaton.com/PRLXpert

Pow-R-Line Xpert family classification

PRL1X

Maximum voltage
240 Vac

Maximum amperage
600 A main
100 A branch
400 A subfeed

Standard provisions
Yes—specified by number of circuits

Product type
Panelboard

Features
- Power Defense molded case circuit breakers
- EZ™ Box and EZ™ Trim standard
- Surge options are available up to 200 kA
- Chassis accepts miniature circuit breaker types BAB and QB
- Integral customer metering options are available

The bottom line: The PRL1X is designed for 240 Vac and below lighting and appliance applications.

PRL2X

Maximum voltage
480Y/277 Vac
125/250 Vdc 3 W

Maximum amperage
600 A main
100 A branch
400 A subfeed

Standard provisions
Yes—specified by number of circuits

Product type
Panelboard

Features
- Power Defense molded case circuit breakers
- EZ Box and EZ Trim standard
- Surge options are available up to 200 kA
- Chassis accepts miniature circuit breaker types BAB and QB
- Integral customer metering options are available

The bottom line: The PRL2X is designed for low AIC 480Y/277 Vac, lighting and appliance applications or high AIC 120/208 Vac applications.

PRL3X

Maximum voltage
600 Vac
250 Vdc 2 W

Maximum amperage
600 A main, 800 A MLO
225 A branch
400 A subfeed

Standard provisions
No—must be manually added

Product type
Panelboard

Features
- Standard chassis accepts Power Defense molded case circuit breakers
- Can include 1X or 2X sub-chassis for miniature circuit breakers
- EZ Box and EZ Trim standard
- Surge options are available up to 200 kA
- Integral customer metering options are available

The bottom line: The PRL3X is a hybrid lighting and power panel for lighting/appliance and small power distribution and motor applications.

PRL4X

Maximum voltage
600 Vac
600 Vdc 2 W

Maximum amperage
1200 A main
1200 A branch

Standard provisions
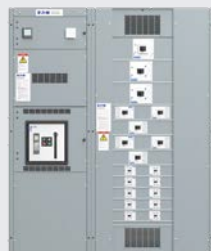No—must be manually added

Product type
Panelboard

Features
- Standard chassis accepts Power Defense molded case circuit breakers
- Can include 1X or 2X sub-chassis for miniature circuit breakers
- BX type can, DFC only standard
- Complete line of Power Xpert metering options are available
- GFCI on the main circuit breaker is available
- Surge options are available up to 400 kA with integral breaker

The bottom line: The PRL4X is designed for 1200 A and below, service entrance, power distribution and motor applications.

PRLX

Maximum voltage
600 Vac
600 Vdc 2 W

Maximum amperage
6000 A main bus

Standard provisions
No—must be manually added

Product type
Switchboard

Features
- Includes Power Defense molded case circuit breakers
- Front or rear accessible
- Utility metering provisions available
- Complete line of Power Xpert metering options are available
- Surge options are available up to 400 kA with integral breaker
- 65 kAIC standard bus bracing; optional 100 or 200 kAIC

The bottom line: The PRLX combines a space-saving design with modular construction and increased systems ratings.

PRLXD

Maximum voltage
480 Vac

Maximum amperage
2000–6000 A rated bus

Standard provisions
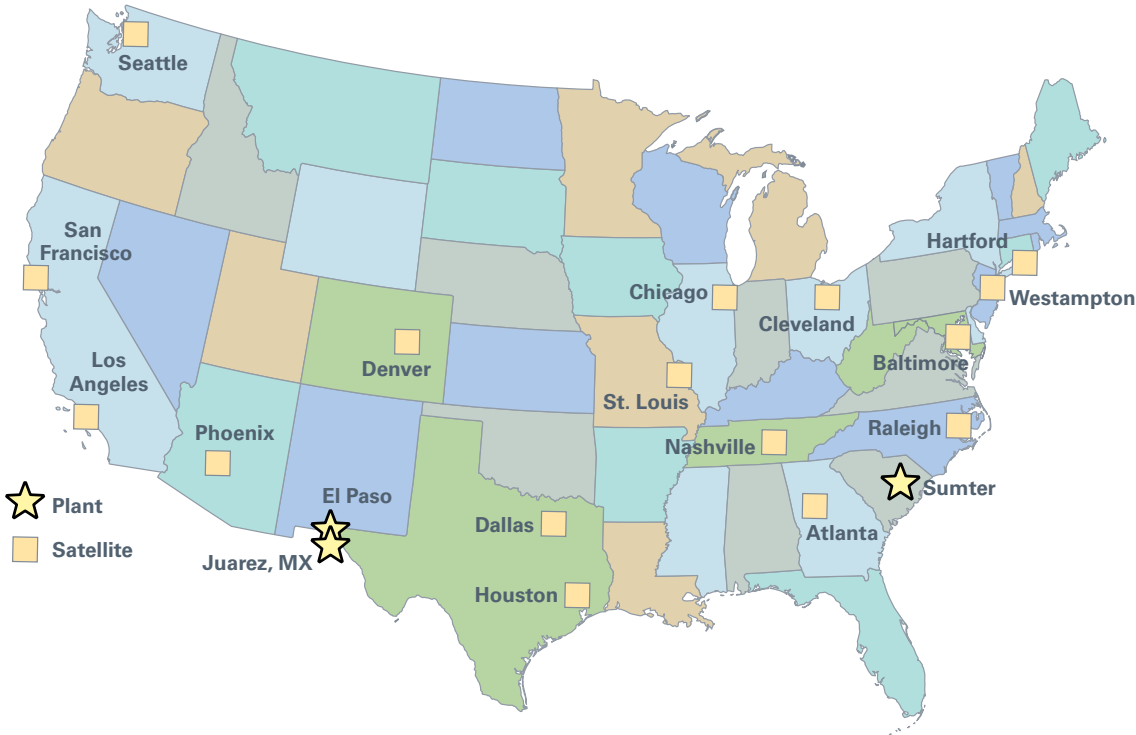No—must be manually added

Product type
Switchboard

Features
- Can accommodate the following in a single UL 891 assembly:
  - 400–4000 A drawout insulated case circuit breakers
  - 70–600 A drawout molded case circuit breakers
  - 20–1200 A fixed group-mounted molded case circuit breakers
- Includes Eaton's Power Defense circuit breaker offering

The bottom line: The PRLXD is a reliable solution that integrates both drawout insulated case and molded case circuit breakers into a single UL® 891 assembly.

Seattle

San Francisco

Los Angeles

Phoenix

Denver

El Paso

Juarez, MX

Dallas

Houston

Chicago

St. Louis

Cleveland

Nashville

Atlanta

Hartford

Westampton

Baltimore

Raleigh

Sumter

★ Plant

☐ Satellite

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

Eaton.com/satellites

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