



SMART BUILDINGS | RELEASE NOTE, SEPTEMBER 2021

ReliaGear™ RD Lighting Panelboards

Enabling energy management and condition monitoring for optimized performance



ReliaGear RD lighting panelboards help protect your assets against destructive overloads or short circuits and enable energy management and condition monitoring by connecting them to ABB Ability™ energy and assets manager. RD offer all the great features and reliable performance as the standard ReliaGear lighting panelboard.

ReliaGear™ RD lighting panelboards enable energy management and condition monitoring for optimized performance thanks to its advanced Ekip Dip or Ekip Hi-Touch branch circuit breakers. Connect Ekip Dip and Ekip Hi-Touch circuit breakers to ABB Ability® and monitor electrical distribution control software, anywhere, anytime from a tablet or smartphone. One can also configure RD with reliable Tmax® XT2 thermal magnetic as branch breakers. Robust Tmax® XT4 and XT5 are the main circuit breakers options. RD works great with applications that use up to 600V.

Applications

ReliaGear™ RD lighting panelboards (RD) efficiently and safely distribute energy from the power source to the lighting branch circuits of

- Commercial and high-rise buildings
- Education and institutional facilities
- Food and beverage facilities
- Hospitals or healthcare
- Data centers
- Large industrial complexes

Key benefits

- **Advanced technology** - High quality, smart protection capabilities, ease of installation, and durability are some of the features that make the ReliaGear RD lighting panelboard a smart choice.
- **XTreme flexibility** - Thousands of configurations gives our customers a competitive yet required advantage.
- **Continuous operation** - Extreme breaking capacities combined with the most precise electronic trip units help ensures continuity of service and equipment protection at all times.
- **Smart circuit monitoring** - Monitor and manage a wealth of information easily, wherever you are.
- **Space optimization** - RD lighting panelboards' enclosure dimensions are 33% thinner than a standard lighting panelboard.
- **Easy to install** - Only four mounting screws are required to mount the interior, and the extruded split neutrals and NEMA enclosures offer ample gutter space to simplify wiring.

Key features

ReliaGear RD lighting panelboards include all the functionalities you need to serve, from commercial or light industrial applications to advanced heavy-duty applications.

- Busbar ratings 125 A, 225 A, 250 A, 400 A, 600 A (main lug only)
- Panelboard size design reduces from 30 In wide to 20-inches wide
- Bare, silver-plated or tin-plated copper, tin-plated aluminum, heat-rated or density-rated
- Main circuit breaker: TMax® XT4 and XT5 thermal magnetic and Ekip Dip trip units
- Branch circuit breakers: FB 15-100A 1 and 2 pole, TMax® XT2 15-125A thermal magnetic, Ekip Dip and Ekip Hi-Touch 3 pole branch breakers
- Incoming type Main lug only (MLO), main circuit breaker (MCB vertically mounted only) and with feed-through lugs or sub-feed breakers
- Feed location: Top or bottom feed
- Available environmental enclosure types: NEMA 1, NEMA 3R, NEMA 4/4X, NEMA 12
- End walls with knockouts (available as an option in NEMA 1 enclosures)

Technical specifications

- Panelboard voltages available at 480 V AC; 3-phase, 3-wire, 600 V AC; 3-phase, 3-wire, 600Y/347 V AC; 3-phase, 4-wire and more
- Maximum short circuit rating is equal to to 42kAIC at 240 V AC, 42kAIC at 480 V AC, 42kAIC at 600 V AC
- Factory assembled on rigid steel frames and equipped with circuit breakers from 15 A to 600 A with busbar options up to 600A main lug

Standards, Classifications, Certifications

- UL 67 panelboards; UL 50 cabinets and boxes
- UL 489 molded case circuit breakers
- cUL listing for ReliaGear lighting panelboards and non-entrance panelboards
- International Building Code Seismic Certification
- California Building Code Seismic Certification
- OSHPD Special Seismic Certification Preapproval (OSP)
- NEMA PB1
- National Electrical Code – Ref. Article 384
- ISO Certification 9001

Production site

Mebane, North Carolina, US.

Order

Order through empower flow or quote at empower.abb.com

Availability and delivery time

September 9, 2021.

Visit empower for current lead times.

Market

Global

Documents

- Website
- Product guide
- Release note

Contact information

- ABB sales agent or representative
- ABB district sales managers
- Meghan Mathews, Product Marketing Manager