
BROCHURE

ReliaGear[®] smart power distribution

Smart design. Smart technology.



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ABB, a world leader in circuit breaker technology, is investing in the future of NEMA rated power distribution. The new line of ReliaGear smart power distribution products utilizes smart design and smart technology to simplify every level of protection for your project.

ReliaGear® smart power distribution

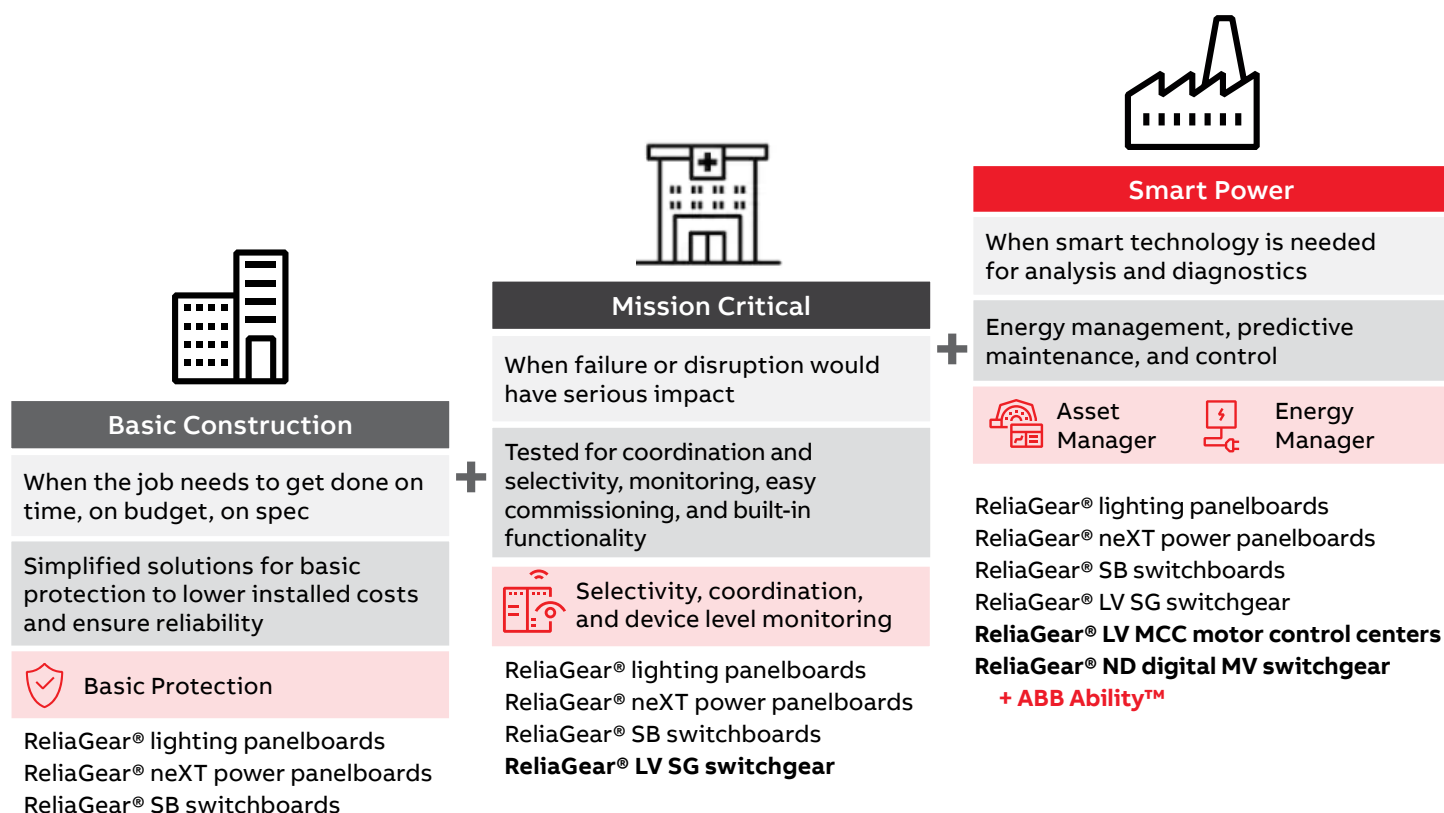
Smart design

ABB power distribution products offer smart design to simplify installation and maintenance and promote a safer work environment.

Smart technology

ABB's all-in-one advanced breaker technology simplifies the way you deploy electrical protection, measurement and control.

Whether your project is a commercial project requiring basic power protection, or a large industrial automation project where monitoring and control are required, ABB ReliaGear® products provide the flexibility you need to customize your solution. Smart design makes ABB ReliaGear smart power distribution products easy to install and maintain. Smart technology provides cutting edge solutions to simplify the system and take it to a whole new level of flexibility. From basic protection to total monitoring and control, ABB ReliaGear power distribution products give you the future of digital technology, today.



Basic construction

Simplified solutions for basic protection and lower install costs.



EASY TO INSTALL

Modular, flexible, fast.

Smart design featuring single-tool simplicity enabling easy, fast component installation or replacement in the field; flexibility with circuit breakers that can be installed anywhere on the bus stack; along with single installer assembly design and field reversible bus stacks to help increase productivity with lower installation and maintenance costs.



INNOVATIVE BREAKER SIMPLICITY

Reliable, competitive value.

Simple breaker selection and installation with thermal magnetic trip units and plug-in accessories, combined with five simple circuit breaker frames cover all amperages and install in seconds.



ENHANCED SAFETY FEATURES

The next level of protection.

From simple things like components that support their own weight and enclosure design to protect against finger abrasions to IP20 finger-safe bus stack, and reduced energy let-through (RELT) ready capabilities and full remote operations, ABB is always designing ways to help keep personnel out of harm's way.



LOCAL SUPPORT

Support you need, when you need it.

ABB offers a knowledgeable, reliable distributor network; along with local sales, application engineers, and service team; all committed to support local and regional contractors and our customers.



Mission critical

Tested coordination, monitoring, easy commissioning, and built-in functionality



COORDINATION AND SELECTIVITY

Technology and performance.

With leading edge technology and performance, ABB circuit breakers provide the coordination and selectivity you need for mission critical applications.



EASY DEVICE MONITORING

Pay for only what you need.

Our range of smart breakers as well as the field-upgradable electronic trip units allow you to pay only for the protection and functionality you need for your specific applications.



SIMPLE, FAST COMMISSIONING

Ekip Connect makes it easy.

Ekip Connect enables efficient and intuitive commissioning with 30% less time needed for installation and setting, along with one user experience from 160 to 1600A.



BUILT-IN FUNCTIONS

Smart breakers with built-in functions.

New built-in functionality for common requirements like metering and power protection simplify your ability to measure and monitor power accurately and implement selective power coordination directly on the breaker.



Smart power

Energy management, predictive performance, and control



CIRCUIT BREAKERS WITH THE ABILITY TO MAKE DECISIONS

Advance your electrification automation capabilities using optional built-in breaker packages you can configure to evaluate conditions, and take specific action - like adaptive protections, network analyzer, advanced voltage protections, power controller and the built-in automated throwover to maximize uptime and improve energy management.

CIRCUIT BREAKERS WITH THE ABILITY TO COMMUNICATE

Manage your network anytime, anywhere on any device. Multiple connectivity options help ensure you have access to the information you need to monitor your connected systems and identify potential issues as well as potential energy savings.

CIRCUIT BREAKERS WITH THE ABILITY TO TAKE ACTION

Use the powerful built-in programming on our smart breakers to deliver the custom functionality you need while further simplifying your network by removing unneeded PLCs and PLC expertise.







CIRCUIT BREAKERS WITH ABILITY

ABB Ability™ solutions

From a state-of-the-art cloud solution that integrates energy and asset management in a single intuitive dashboard to a full electrification monitoring and control system. ABB Ability™ solutions combine ABB's expertise with connectivity and software innovation to empower real-time, data-driven decisions for safer, smarter operations that maximize resource efficiency and contribute to a low-carbon future. Our large portfolio of digital solutions helps organizations automate, optimize and future-proof their business to achieve new heights of performance and drive sustainable progress.

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	Application	Performance range	Features
 <p>Lighting panelboard</p>	UL 67	Up to 800 A @480 V AC	<ul style="list-style-type: none"> Advanced electronic trip units within compact frames Increased amperages and sub-feed circuit count, now add up to (5) 250 A subfeeds Optional integrated branch circuit monitoring to track overloads and optimize energy usage Thousands of configurations and optional embedded surge protection devices, main metering, or branch circuit metering available Extruded split neutrals to simplify wiring and help speed installation NEMA enclosures offer ample gutter space RGM40 revenue grade meter
 <p>Power panelboard</p>	UL 67	Up to 1,200 A @480 V AC	<ul style="list-style-type: none"> Field-reversible bus stack accommodates top or bottom feeds direction Features award-winning Tmax® XT breaker assemblies designed for improved density and fast installation and replacement Standard design includes IP20 finger-safe bus stack Optional IP20 finger-safe barriers for main breakers, main lugs, feed-through lugs and feeder breakers Cloud connectivity with built-in metering for real-time data analysis Versatility of factory-assembled and unassembled deliveries Easy configuration with ABB empower tool RGM40 revenue grade power quality meter
 <p>Busway</p>	UL 857	Up to 6,000 A @ 600 V AC	<ul style="list-style-type: none"> Field-adjustable straight length and joints minimize the need for time-consuming measurements or special field check pieces Integral dead front, automatic shutter plug outlet mechanism for positive, safe plug installations Proven long-life Blue Coat™ epoxy bus bar insulation system Lightweight and easy to install with single person able to handle 10-foot lengths
 <p>Switchboard</p>	UL 891	Up to 6,000 A @480 V AC	<ul style="list-style-type: none"> Finger-safe plug-in bus stack for increased protection and greater flexibility of circuit breaker placement Tmax® XT circuit breakers featuring 1% power metering accuracy and multiple communications protocols Hinged splice plates with captive hardware allow for quick assembly of sections ABB Ability™ cloud connectivity allows users to remotely access accurate information anywhere or anytime
 <p>LV switchgear</p>	UL 1558	Up to 8,000 A @600 V AC	<ul style="list-style-type: none"> Emax 2 circuit breaker with advanced Ekip trip units Ekip trip unit periodically checks continuity of internal connections and systems, helping improve reliability Optional Ekip Connect software and ABB Ability™ platform offer preventive maintenance capabilities Variety of stack widths available to meet customer needs, including four-high Emax 2 E1.2 circuit breakers in a 15" section Optional integral auto transfers built into the Ekip trip unit Select Ekip trip units offer 1% system metering accuracy
 <p>LV motor control center</p>	UL 845	Up to 3,200 A @480 V AC	<ul style="list-style-type: none"> ACS580 variable frequency drives with active and passive filtering, embedded Blue Tooth Tmax® XT circuit breakers, featuring Ekip Touch and Hi-Touch trip units with Class 1 Energy and Power, cloud connectivity and embedded Blue Tooth Retractable stabs with remote racking up to 600 A Back to back 25" deep; full functioning corner sections Easy field configuration with ABB empower quote tool



Learn more about the innovative full line of ReliaGear® smart power distribution products at electrification.us.abb.com.

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ABB Inc.
Electrification Business
305 Gregson Drive
Cary, NC 27511
United States

electrification.us.abb.com

Customer Service: 1-800-431-7867
Orders: us-elgmusorders@abb.com
Distributor customer assistance:
us-el.distributorsales@abb.com
OEM and direct customer assistance:
us-el.oemsales@abb.com

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